MINISTRY OF WATER
THE UNITED REPUBLIC OF TANZANIA

THE STUDY
ON
RURAL WATER SUPPLY
IN
TABORA REGION
IN
THE UNITED REPUBLIC OF TANZANIA

FINAL REPORT

DATA BOOK

MAY 2011

JAPAN INTERNATIONAL COOPERATION AGENCY

EARTH SYSTEM SCIENCE CO., LTD
JAPAN TECHNO CO., LTD.
KOKUSAI KOGYO CO., LTD.

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No.	Data Source(*	BH No	District/ Municipality	Location/・Village	Latitude(*2	Longitude(*2	Depth (m)	S.W.L. (m)	Yield (m^3/h)	Geological Unit(*3
1	TW	IG-012BH1	Igunga	Buhekela	-4.773163	33.707606	70.00	-	0	I.R.
2	IDB	TB-29/2	Igunga	Busomeke	-4.526330	33.466870	5.00	3.53	-	I.R.
3	IDB	TB-20	Igunga	Chibiso	-3.980950	33.545280	13.00	2	-	M.S.
4	IDB	260/61	Igunga	Choma	-4.023530	33.348410	61.90	30.5	1.8	O.Al.
5	WMP	111/70	Igunga	Chuma cha nkola	-4.022295	33.348638	117.40	40.2	6.2	O.Al.
6	WMP	15/79	Igunga	Ibologero	-4.230690	33.472170	85.30	2.8	0.9	I.R.
7	WMP	34/79	Igunga	Ibologero	-4.231209	33.470376	118.60	0.9	-	I.R.
8	WMP	42/79	Igunga	Ibologero	-4.231209	33.470376	34.20	0.6	5.7	I.R.
9	TW	IG-007BH1	Igunga	Igumo	-4.563704	33.459885	80.00	-	15.2	I.R.
10	IDB	TB-1	Igunga	Igunga	-4.279300	33.877640	12.00	6.21	-	L.B.
11	IDB	TB-1	Igunga	Igunga	-4.260850	33.891950	7.20	5.58	-	O.Al.
12	IDB	226/97	Igunga	Itunduru	-4.137310	33.649760	34.00	3	-	L.B.
13	IDB	TB-22/1	Igunga	Itunduru	-4.137170	33.649300	-	-	-	L.B.
14	TW	IG-033BH1	Igunga	Kagongwa	-4.039833	33.659683	82.00	-	0	L.B.
15	IDB	74/2002	Igunga	Kalemela/・Isenegeja	-4.539740	33.451260	5.00	-	-	I.R.
16	WMP	164/78	Igunga	Kininginila	-4.067064	33.932420	82.00	8.6	-	L.B.
17	IDB	TB-4	Igunga	Lugumbi	-4.560000	33.873840	6.50	3.8	-	O.Al.
18	IDB	265/97	Igunga	Majengo	-4.604690	33.444310	15.00	5	-	I.R.
19	DDCA	265/1997	Igunga	Majengo?	-4.601270	33.444510	-	-	-	I.R.
20	MoW	140/90	Igunga	Makomero	-4.299850	33.982130	12.00	3	-	O.Al.
21	IDB	26/2003	Igunga	Malinje	-4.041100	33.505450	50.00	13.42	4	M.S.
22	IDB	TB-21/1	Igunga	Malinje	-4.041100	33.505490	36.00	-	-	M.S.
23	MoW	265/97	Igunga	Masengo	-4.604690	33.444310	15.00	5	-	I.R.
24	DDCA	310/2002	Igunga	Matinje	-4.031990	33.466910	100.00	-	0	M.S.
25	DDCA	311/2002	Igunga	Matinje	-4.031990	33.466910	80.00	-	0	M.S.
26	DDCA	16/2003	Igunga	Matinje	-4.031990	33.466910	53.00	13.42	4	M.S.
27	DDCA	801/2005	Igunga	Matinje	-4.031990	33.466910	80.00	-	0	M.S.
28	DDCA	16/2003	Igunga	Matinje ・(M/S N.D.C)	-4.041100	33.505450	50.00	13.42	4	M.S.
29	WMP	169/78	igunga	Mbutu	-4.234451	33.896576	21.00	-	-	L.B.
30	MoW	141/90	Igunga	Mgongoro	-4.389160	34.046210	30.00	24	-	Al.
31	IDB	242/97	Igunga	Moyofuke	-4.332690	33.537150	15.00	2.5	1.2	I.R.
32	WMP	225/76	Igunga	Nanga	-4.257338	33.619074	47.27	-	-	M.S.
33	WMP	268/76	Igunga	Nanga	-4.257341	33.616371	47.27	-	-	M.S.
34	IDB	TB-12	Igunga	Nanga	-4.275240	33.605370	-	-	-	M.S.
35	IDB	TB-13	Igunga	Nguvumoja	-4.418560	33.855910	-	17.67	-	M.S.
36	WMP	1/79	Igunga	Nkinga	-4.409446	33.435336	73.80	2.5	13	I.R.
37	IDB	32/98	Igunga	Nkinga	-4.411070	33.431590	40.00	1	5	I.R.
38	WMP	48/79	Igunga	Nkinga	-4.409446	33.435336	11.30	2	-	I.R.
39	DDCA	301/1997	Igunga	Nkinga	-4.418140	33.438460	15.00	2.6	-	I.R.
40	WMP	4/76	Igunga	Nkinga Hospital	-4.409446	33.435336	213.40	21.3	0.2	I.R.
41	WMP	148/78	Igunga	Nyandekwa	-4.251057	33.552389	90.50	20	2	M.S.
42	WMP	49/79	Igunga	NyandekwA	-4.251057	33.552389	30.50	-	-	M.S.
43	WMP	50/79	Igunga	NyandekwA	-4.251056	33.553290	23.80	-	-	M.S.
44	WMP	51/79	Igunga	NyandekwA	-4.251055	33.554191	25.90	-	-	M.S.
45	DDCA	514/2005	Igunga	Nyandekwa	-4.241170	33.513310	38.00	-	0	I.R.
46	WMP	160/78	Igunga	Sakamaliwa	-4.066935	34.037813	91.10	7	-	O.Al.
47	IDB	81/79	Igunga	Simbo	-4.658270	33.426520	60.00	29.3	-	O.Al.
48	IDB	TB-18	Igunga	Tambalala	-4.640180	33.510520	60.00	-	-	I.R.
49	WMP	181/78	Igunga	Ulaya	-4.376894	33.408279	82.00	-	-	I.R.
50	IDB	364/99	Igunga	Ulaya	-4.378930	33.450950	22.00	-	-	I.R.
51	IDB	203/81	Igunga	Ussongo	-4.302330	33.494210	36.58	4.27	1.8	I.R.
52	IDB	TB-15/1	Igunga	Ussongo	-4.291670	33.485580	40.00	-	-	I.R.
53	WMP	137/78	Igunga	Ziba	-4.224028	33.366748	90.50	24.9	-	O.Al.
54	WMP	144/78	Igunga	Ziba	-4.224027	33.367649	58.50	25.3	-	O.Al.
55	WMP	52/79	Igunga	Ziba	-4.236673	33.407303	16.80	5	-	I.R.
56	IDB	61/79	Igunga	Ziba	-4.237640	33.406140	12.19	4.57	-	I.R.
57	WMP	-	Igunga	ziba	-4.237577	33.407304	9.70	3	-	I.R.
58	WMP	-	Igunga	Ziba	-4.236677	33.399193	4.60	2.4	-	I.R.
59	DDCA	795/2004	Nzega	Bujulu	-4.017660	33.204150	62.00	35.23	3.96	M.S.
60	WMP	23/60	Nzega	Bukene	-4.217771	32.873846	64.00	18	3.2	I.R.
61	DDCA	300/2007	Nzega	Gulyambi	-4.524000	32.767840	54.00	5	0.2	I.R.
62	DDCA	620/2008	Nzega	Ibelfinga	-4.664830	32.952070	72.00	-	-	I.R.
63	DDCA	295/2003	Nzega	Iboja	-3.932200	32.938420	52.00	-	2.1	I.R.
64	DDCA	168/1998	Nzega	Idala	-4.190860	33.202630	41.00	4	-	I.R.
65	DDCA	835/2008	Nzega	Igoja	-3.932200	32.938420	80.00	-	-	I.R.
66	IDB	130/75	Nzega	Ilagaja	-4.011270	33.093830	42.98	3.3	4.5	M.S.
67	IDB	TB-35/2	Nzega	Ilagaja	-4.012350	33.095430	-	-	-	M.S.
68	DDCA	667/2004	Nzega	Isagenhe	-4.339390	32.895610	82.50	24.8	2.829	I.R.
69	DDCA	607/2008	Nzega	Isagenhe	-4.339390	32.895610	100.00	-	-	I.R.
70	DDCA	613/2008	Nzega	Isagenhe	-4.339390	32.895610	73.84	-	-	I.R.
71	DDCA	799/2004	Nzega	Isanga	-4.053050	33.198110	80.00	76	0	M.S.
72	DDCA	800/2004	Nzega	Isanga	-4.053050	33.198110	58.00	28.62	2.933	M.S.
73	DDCA	801/2004	Nzega	Isanga	-4.053050	33.198110	58.00	39.2	9.9	M.S.
74	TW	NZ-047BH1	Nzega	Isanga	-4.064059	33.215416	85.00	2.05	3.7	M.S.
75	TW	NZ-047BH2	Nzega	Isanga	-4.063932	33.216488	80.00	6.17	3	M.S.
76	DDCA	815/2008	Nzega	Itilo	-4.270100	33.175700	25.00	-	-	I.R.
77	IDB	TB-38/1	Nzega	Kabale	-3.962510	33.130130	60.00	48.5	-	O.Al.
78	DDCA	293/2003	Nzega	Kanolo	-3.997540	33.172680	68.00	4	15.84	O.Al.
79	DDCA	294/2003	Nzega	Kanolo	-3.997540	33.172680	65.00	-	2	O.Al.
80	DDCA	297/2003	Nzega	Kanolo	-3.997540	33.172680	64.00	4.85	15.84	O.Al.
81	DDCA	832/2008	Nzega	Kigandu	-4.657510	32.989220	42.00	-	0.6	I.R.
82	DDCA	298/2006	Nzega	Kikonoka	-4.564710	32.672500	62.00	15.62	2.7	I.R.
83	DDCA	775/2006	Nzega	Kikonoka	-4.564710	32.672500	49.00	-	0.7	I.R.
84	DDCA	778/2006	Nzega	Kikonoka	-4.564710	32.672500	-	-	-	I.R.

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No.	Data Source(*	BH No	District/ Municipality	Location/・Village	Latitude(*2	Longitude(*2	Depth (m)	S.W.L. (m)	Yield (m^3/h)	Geological Unit(*3
85	DDCA	781/2006	Nzega	Kikonoka	−4.564710	32.672500	55.00	3.2	0.6	I.R.
86	DDCA	776/2007	Nzega	Kikonoka	−4.564710	32.672500	45.00	2.45	0.8	I.R.
87	DDCA	779/2007	Nzega	Kikonoka	−4.564710	32.672500	73.00	6	0.6	I.R.
88	DDCA	780/2007	Nzega	Kikonoka	−4.564710	32.672500	61.00	−	0	I.R.
89	DDCA	9/2009	Nzega	Kilino	−4.179440	32.813410	32.00	−	−	I.R.
90	DDCA	8/2009	Nzega	Kipilimuka	−4.427280	33.008420	32.00	−	−	I.R.
91	WMP	10/79	Nzega	Kitangili	−4.211414	33.232481	90.50	3.1	0.6	I.R.
92	WMP	19/79	Nzega	Kitangili	−4.211414	33.232481	26.50	19.8	−	I.R.
93	WMP	47/79	Nzega	Kitangili	−4.211413	33.235184	33.50	13.7	−	I.R.
94	DDCA	708/2006	Nzega	Mambali	−4.537990	32.688280	68.00	−	0.57	I.R.
95	DDCA	709/2006	Nzega	Mambali	−4.537990	32.688280	43.00	3.9	1	I.R.
96	DDCA	710/2006	Nzega	Mambali	−4.537990	32.688280	68.00	3.98	0.947	I.R.
97	DDCA	734/2006	Nzega	Mambali	−4.537990	32.688280	49.00	4	1.09	I.R.
98	DDCA	773/2006	Nzega	Mambali	−4.537990	32.688280	36.00	−	0	I.R.
99	DDCA	774/2006	Nzega	Mambali	−4.537990	32.688280	36.00	−	0	I.R.
100	DDCA	777/2006	Nzega	Mambali	−4.537990	32.688280	80.00	9.34	0.68	I.R.
101	DDCA	782/2006	Nzega	Mambali	−4.537990	32.688280	78.00	−	0	I.R.
102	DDCA	785/2006	Nzega	Mambali	−4.537990	32.688280	54.00	4.34	2.4	I.R.
103	DDCA	783/2007	Nzega	Mambali	−4.537990	32.688280	46.00	3	3.6	I.R.
104	DDCA	784/2007	Nzega	Mambali	−4.537990	32.688280	65.00	8	6.3	I.R.
105	DDCA	111/2008	Nzega	Mambali	−4.537990	32.688280	34.20	−	−	I.R.
106	DDCA	112/2008	Nzega	Mambali	−4.537990	32.688280	45.23	−	−	I.R.
107	DDCA	113/2008	Nzega	Mambali	−4.537990	32.688280	51.80	−	−	I.R.
108	DDCA	114/2008	Nzega	Mambali	−4.537990	32.688280	42.75	−	−	I.R.
109	DDCA	816/2008	Nzega	Mbagwa	−4.579050	33.101520	40.00	−	−	I.R.
110	DDCA	41/2007	Nzega	Mbutu	−4.392590	32.783250	45.00	6	2	I.R.
111	DDCA	291/2007	Nzega	Mbutu	−4.392590	32.783250	65.00	8	2.5	I.R.
112	DDCA	495/2007	Nzega	Mbutu	−4.392590	32.783250	43.00	−	0	I.R.
113	IDB	18/62	Nzega	Miguwa	−4.186550	33.297610	41.80	0.44	6	I.R.
114	IDB	467/2005	Nzega	Miguwa	−4.181720	33.315070	36.00	6.9	5	I.R.
115	IDB	TB−33/2	Nzega	Miguwa	−4.207940	33.285420	7.00	5.12	−	I.R.
116	DDCA	606/2008	Nzega	Miguwa	−4.206960	33.300710	48.28	−	−	I.R.
117	IDB	506/2000	Nzega	Mwaguguli	−4.057240	33.028300	−	10.4	−	O.Al.
118	IDB	62/72	Nzega	Mwaguguli	−4.038380	33.030140	45.72	4.88	2.7	M.S.
119	DDCA	605/2008	Nzega	Mwakashanhala	−4.654980	33.078420	80.00	−	−	I.R.
120	DDCA	612/2008	Nzega	Mwakashanhala	−4.654980	33.078420	47.16	−	−	I.R.
121	DDCA	614/2008	Nzega	Mwakashanhala	−4.654980	33.078420	57.66	−	−	I.R.
122	DDCA	797/2004	Nzega	Mwaluzwilo	−4.025490	33.217900	80.00	19.5	5.28	M.S.
123	DDCA	798/2004	Nzega	Mwaluzwilo	−4.025490	33.217900	70.00	30.02	1.1	M.S.
124	DDCA	668/2004	Nzega	Mwamikola?	−3.963590	33.141980	100.00	66.24	5.657	O.Al.
125	WMP	107/78	Nzega	Nata	−4.079353	33.137844	69.20	−	−	M.S.
126	WMP	124/78	Nzega	Nata	−4.079353	33.137844	53.90	1.1	2.3	M.S.
127	WMP	125/78	Nzega	Nata	−4.099256	33.136946	63.10	0.8	4	I.R.
128	WMP	16/79	Nzega	Nata	−4.083877	33.137845	35.50	0.7	−	M.S.
129	WMP	17/79	Nzega	Nata	−4.085685	33.141449	33.50	3.2	−	M.S.
130	WMP	18/79	Nzega	Nata	−4.085685	33.140548	44.20	−	−	M.S.
131	WMP	190/78	Nzega	Nata	−4.078448	33.139646	45.70	1.8	−	M.S.
132	WMP	191/78	Nzega	Nata	−4.083877	33.137845	38.70	1	−	M.S.
133	DDCA	124/1978	Nzega	Nata?	−4.027080	33.131830	54.86	5.18	1.9	M.S.
134	WMP	267/76	Nzega	Ndala	−4.756929	33.232653	106.70	21.3	14.7	I.R.
135	DDCA	333/2007	Nzega	Nkindu	−4.461930	32.826130	45.00	−	−	I.R.
136	DDCA	479/2008	Nzega	Nkindu	−4.461930	32.826130	50.00	1.1	3.5	I.R.
137	DDCA	480/2008	Nzega	Nkindu	−4.461930	32.826130	50.00	−	0	I.R.
138	IDB	115/2003	Nzega	Nsojo	−3.955310	32.867890	70.50	45.45	−	M.S.
139	WMP	18/71	Nzega	Nzega Town	−4.220473	33.187429	99.00	1.6	6.81	I.R.
140	DDCA	78/2003	Nzega	Sojo	−3.946850	32.857150	62.00	5.33	1.8	M.S.
141	DDCA	79/2003	Nzega	Sojo	−3.946850	32.857150	52.00	10.2	3.6	M.S.
142	DDCA	80/2003	Nzega	Sojo	−3.946850	32.857150	75.00	36.82	1.5	M.S.
143	DDCA	81/2003	Nzega	Sojo	−3.946850	32.857150	68.00	6.1	3.6	M.S.
144	DDCA	82/2003	Nzega	Sojo	−3.946850	32.857150	65.00	2.5	2.2	M.S.
145	DDCA	83/2003	Nzega	Sojo	−3.946850	32.857150	90.00	4.9	3.5	M.S.
146	DDCA	84/2003	Nzega	Sojo	−3.946850	32.857150	90.00	4.4	12	M.S.
147	DDCA	85/2003	Nzega	Sojo	−3.946850	32.857150	78.00	12.42	12	M.S.
148	DDCA	115/2003	Nzega	Sojo	−3.946850	32.857150	78.00	5.45	−	M.S.
149	DDCA	116/2003	Nzega	Sojo	−3.946850	32.857150	70.00	2.42	5.28	M.S.
150	DDCA	117/2003	Nzega	Sojo	−3.946850	32.857150	73.00	−	−	M.S.
151	DDCA	118/2003	Nzega	Sojo	−3.946850	32.857150	55.00	−	−	M.S.
152	DDCA	119/2003	Nzega	Sojo	−3.946850	32.857150	72.00	46.98	15.8	M.S.
153	DDCA	120/2003	Nzega	Sojo	−3.955310	32.867890	66.00	−	−	M.S.
154	DDCA	121/2003	Nzega	Sojo	−3.946850	32.857150	63.00	−	−	M.S.
155	DDCA	122/2003	Nzega	Sojo	−3.946850	32.857150	61.00	−	−	M.S.
156	WMP	84/75	Nzega	Tezengwa	−4.240376	33.188335	57.70	6.69	−	I.R.
157	IDB	191/81	Nzega	Uchama	−4.184960	33.178850	42.67	2.44	4.5	I.R.
158	DDCA	809/2008	Nzega	Ugembe Ii	−4.592260	32.973360	72.00	2.8	1.5	I.R.
159	DDCA	810/2008	Nzega	Ugembe Ii	−4.592260	32.973360	66.00	21.2	0.8	I.R.
160	DDCA	811/2008	Nzega	Ugembe Ii	−4.592260	32.973360	66.00	4	0.7	I.R.
161	DDCA	812/2008	Nzega	Ugembe Ii	−4.592260	32.973360	66.00	5.5	2	I.R.
162	DDCA	813/2008	Nzega	Ugembe Ii	−4.592260	32.973360	60.00	20.8	0.6	I.R.
163	IDB	257/76	Nzega	Uhemeli	−4.758710	33.239490	106.88	21.33	13.58	I.R.
164	IDB	TB−40/2	Nzega	Uhemeli	−4.778480	33.231850	47.00	32.22	−	I.R.
165	WMP	55/79	Sikonge	Mkolye	−5.554806	32.711078	58.50	34	−	I.R.
166	DDCA	494/2002	Sikonge	Mole	−5.441640	32.620540	28.00	1.4	0	I.R.
167	TW	SK−037BH1	Sikonge	Mpombwe	−5.405524	32.697877	79.00	−	0	O.Al.
168	TW	SK−037BH2	Sikonge	Mpombwe	−5.376904	32.691176	92.00	62.84	0.14	O.Al.

List of Existing Boreholes in Tabora Region

No.	Data Source(*	BH No	District/ Municipality	Location/・Village	Latitude(*2	Longitude(*2	Depth (m)	S.W.L. (m)	Yield (m^3/h)	Geological Unit(*3
169	IDB	3/51	Sikonge	Nyahua	-5.375300	33.334230	55.78	-	-	O.Al.
170	WMP	28/67	Sikonge	Sikonge	-5.618150	32.755292	154.50	-	0.5	I.R.
171	WMP	58/79	Sikonge	Sikonge	-5.591004	32.738148	37.20	1.2	-	I.R.
172	TW	SK-028BH1	Sikonge	Usunga	-5.716079	32.932537	98.00	40.27	0.18	I.R.
173	TW	SK-028BH2	Sikonge	Usunga	-5.714842	32.952532	150.00	17.51	0.8	I.R.
174	DDCA	283/2002	Tabora Rural	Ibiri	-4.924440	32.597810	31.00	-	0	I.R.
175	WMP	-	Tabora Rural	Igalula	-4.901708	33.099215	12.20	4.6	-	I.R.
176	WMP	-	Tabora Rural	Igalula	-4.901708	33.099215	11.90	6.1	-	I.R.
177	WMP	128/73	Tabora Rural	Ipulul	-5.247293	32.941342	94.50	3.7	3.4	I.R.
178	DDCA	-	Tabora Rural	Ipululu	-5.244540	32.941070	50.00	-	3.4	I.R.
179	DDCA	144/1996	Tabora Rural	Kalola	-5.137260	32.493830	17.00	6	-	I.R.
180	IDB	TB-43	Tabora Rural	Kimungi	-5.356220	33.184690	-	18.2	-	O.Al.
181	DDCA	282/2002	Tabora Rural	Lunguya	-4.884730	32.979600	45.00	-	0	I.R.
182	IDB	335/2001	Tabora Rural	Lutona	-5.175610	33.720050	36.00	6.72	-	I.R.
183	TW	TR-069BH1	Tabora Rural	Mabama	-5.121115	32.532809	79.00	8.59	14	I.R.
184	TW	TR-069BH2	Tabora Rural	Mabama	-5.128109	32.534103	82.00	11.06	0.8	I.R.
185	TW	TR-069BH3	Tabora Rural	Mabama	-5.12773	32.535502	86.00	-	0	I.R.
186	DDCA	-	Tabora Rural	Mbola	-5.019460	32.585120	35.00	-	1	I.R.
187	DDCA	-	Tabora Rural	Mbola	-5.019460	32.585120	40.00	-	1.2	I.R.
188	DDCA	-	Tabora Rural	Mbola	-5.019460	32.585120	40.00	-	2	I.R.
189	DDCA	-	Tabora Rural	Mbola	-5.019460	32.585120	80.00	-	5	I.R.
190	DDCA	-	Tabora Rural	Mbola	-5.019460	32.585120	40.00	-	2	I.R.
191	DDCA	-	Tabora Rural	Mbola	-5.019460	32.585120	75.00	-	1.5	I.R.
192	TW	TR-054BH1	Tabora Rural	Mpumbli	-5.304144	33.446452	50.00	-	0	Al.
193	TW	TR-054BH2	Tabora Rural	Mpumbli	-5.304234	33.447048	130.00	33.3	9	Al.
194	TW	TR-098BH1	Tabora Rural	Ufuluma	-4.996038	32.389766	86.00	-	0	I.R.
195	WMP	1/77	Tabora Rural	Upuge	-4.912571	32.972941	94.50	1.2	5.7	I.R.
196	TW	TU-008BH1	Tabora Mun.	Kakola	-4.860138	32.83841	108.00	14.37	6	I.R.
197	WMP	68/78	Tabora Mun.	Kapande	-5.066307	32.730250	59.50	8.2	0.7	I.R.
198	WMP	65/78	Tabora Mun.	Kipalapala	-5.092567	32.797003	90.50	-	-	I.R.
199	DDCA	-	Tabora Mun.	Kipalapala	-5.091662	32.795198	-	-	-	I.R.
200	WMP	105/78	Tabora Mun.	Klunde	-4.972208	32.695110	90.50	30.5	-	I.R.
201	WMP	106/78	Tabora Mun.	Tumbi	-5.064488	32.706795	98.80	14	1.1	I.R.
202	WMP	119/72	Tabora Mun.	Tumbi	-5.069007	32.697771	112.80	3.4	2.6	I.R.
203	WMP	138/78	Tabora Mun.	Tumbi	-5.064488	32.706795	22.30	14.7	-	I.R.
204	WMP	139/78	Tabora Mun.	Tumbi	-5.064488	32.706795	19.80	13.9	-	I.R.
205	WMP	140/78	Tabora Mun.	Tumbi	-5.064488	32.706795	22.90	17.3	-	I.R.
206	WMP	179/78	Tabora Mun.	Tumbi	-5.064488	32.706795	22.30	10	-	I.R.
207	WMP	180/78	Tabora Mun.	Tumbi	-5.064488	32.706795	19.20	12.3	-	I.R.
208	WMP	183/78A	Tabora Mun.	Tumbi	-5.049110	32.708606	14.00	-	-	I.R.
209	WMP	183/78B	Tabora Mun.	Tumbi	-5.049110	32.708606	32.00	20	-	I.R.
210	WMP	184/78	Tabora Mun.	Tumbi	-5.050921	32.713116	10.40	11	-	I.R.
211	WMP	185/78	Tabora Mun.	Tumbi	-5.052732	32.717626	16.80	12	-	I.R.
212	WMP	186/78	Tabora Mun.	Tumbi	-5.064490	32.710404	14.60	3	-	I.R.
213	WMP	238/74	Tabora Mun.	Tumbi	-5.073523	32.683334	87.80	1.2	1.1	I.R.
214	WMP	60/75	Tabora Mun.	Tumbi	-5.077143	32.686039	122.00	1.5	0.87	I.R.
215	DDCA	-	Tabora Mun.	Tumbi	-5.064488	32.706795	10.00	-	-	I.R.
216	DDCA	-	Tabora Mun.	Tumbi	-5.064488	32.706795	10.70	-	-	I.R.
217	DDCA	-	Tabora Mun.	Tumbi	-5.064490	32.710404	6.10	-	-	I.R.
218	WMP	66/78	Tabora Mun.	Ulamba	-5.001186	32.765458	50.30	4.6	1.1	I.R.
219	WMP	67/78	Tabora Mun.	Ulamba	-5.001186	32.766360	67.70	4.4	-	I.R.
220	DDCA	602/2007	Urambo	Bulela	-4.321080	32.219550	50.00	10.1	1.2	I.R.
221	WMP	20/78	Urambo	Corner farm・No-2 Urambo	-5.119916	32.034637	48.20	6.1	10.12	M.D.
222	DDCA	143/76	Urambo	Igagala	-4.929269	31.638125	75.00	1.3	6.9	M.D.
223	WMP	47/73	Urambo	Igagala	-4.938248	31.606545	61.00	1.5	5.7	M.D.
224	WMP	48/73	Urambo	Igagala	-4.911121	31.609307	61.00	1.5	5.3	M.D.
225	DDCA	60/2006	Urambo	Igunguli	-4.807440	32.075460	-	-	-	M.D.
226	DDCA	61/2006	Urambo	Igunguli	-4.807440	32.075460	-	-	-	M.D.
227	DDCA	81/2006	Urambo	Igunguli	-4.807440	32.075460	40.00	-	0	M.D.
228	DDCA	75/2008	Urambo	Ilege	-4.445580	32.273120	30.00	-	-	I.R.
229	WMP	18/78	Urambo	Imalakoya	-5.106420	32.084273	38.40	0.9	3.37	M.D.
230	DDCA	737/2007	Urambo	Iyombo	-4.383340	32.448800	60.00	13.9	0.6	I.R.
231	DDCA	738/2007	Urambo	Iyombo	-4.383340	32.448800	42.00	-	0	I.R.
232	DDCA	732/2007	Urambo	Iyombo	-4.383340	32.448800	45.00	-	0	I.R.
233	DDCA	733/2007	Urambo	Iyombo	-4.383340	32.448800	51.00	3.04	1.5	I.R.
234	DDCA	735/2007	Urambo	Iyombo	-4.383340	32.448800	42.00	-	0	I.R.
235	DDCA	739/2007	Urambo	Iyombo	-4.383340	32.448800	62.00	-	-	I.R.
236	DDCA	736/2007	Urambo	Iyombo	-4.383340	32.448800	75.00	8.3	4	I.R.
237	DDCA	734/2007	Urambo	Iyombo	-4.383340	32.448800	42.00	-	0	I.R.
238	DDCA	631/2008	Urambo	Kagera	-4.430430	32.420810	40.00	-	-	I.R.
239	WMP	3/67	Urambo	Kaliua	-5.056207	31.800211	61.00	3	2.1	M.D.
240	WMP	8/67	Urambo	Kaliua	-5.054470	31.792860	24.70	1.6	12.1	M.D.
241	WMP	5/66	Urambo	Kaliua ・	-5.054470	31.792860	30.50	0.9	10	M.D.
242	DDCA	298/2003	Urambo	Kashishi	-4.379840	32.383100	48.00	-	-	I.R.
243	DDCA	605/2007	Urambo	King`wangoko	-4.404880	32.261640	85.00	-	0	I.R.
244	WMP	29/78	Urambo	Kondamoyo	-5.178505	31.908242	30.00	6.66	2.25	M.D.
245	DDCA	606/2007	Urambo	Mwendakulima	-4.338970	32.312980	48.00	3	1.03	I.R.
246	DDCA	607/2007	Urambo	Mwendakulima	-4.338970	32.312980	60.00	1.4	2	I.R.
247	DDCA	603/2007	Urambo	Nyasa	-4.322870	32.261310	60.00	0.95	4	I.R.
248	DDCA	604/2007	Urambo	Nyasa	-4.322870	32.261310	60.00	8.84	1	I.R.
249	DDCA	740/2007	Urambo	Sasu	-4.461690	32.321480	50.00	-	-	I.R.
250	DDCA	741/2007	Urambo	Sasu	-4.461690	32.321480	38.22	-	-	I.R.
251	DDCA	610/2007	Urambo	Seleli	-4.331700	32.325770	60.00	0	1.2	I.R.
252	DDCA	609/2007	Urambo	Seleli	-4.331700	32.325770	65.00	0.9	0.8	I.R.

List of Existing Boreholes in Tabora Region

No.	Data Source(*	BH No	District/ Municipality	Location/・Village	Latitude(*2	Longitude(*2	Depth (m)	S.W.L. (m)	Yield (m^3/h)	Geological Unit(*3
253	DDCA	611/2007	Urambo	Seleli	−4.331700	32.325770	43.00	1.25	0.8	I.R.
254	DDCA	630/2007	Urambo	Seleli	−4.331700	32.325770	92.00	2.02	1.1	I.R.
255	DDCA	631/2007	Urambo	Seleli	−4.331700	32.325770	56.00	0.02	0.9	I.R.
256	DDCA	731/2007	Urambo	Seleli	−4.331700	32.325770	90.00	−	0	I.R.
257	DDCA	912/2005	Urambo	Songambele	−4.931640	32.191390	46.00	4.83	2.2	Al.
258	DDCA	911/2005	Urambo	Songambele	−4.931640	32.191390	59.00	7.52	0.8	Al.
259	DDCA	910/2005	Urambo	Songambele	−4.931640	32.191390	52.00	3.3	2.6	Al.
260	DDCA	914/2005	Urambo	Songambele	−4.931640	32.191390	46.25	−	0	Al.
261	DDCA	909/2005	Urambo	Songambele	−4.931640	32.191390	40.00	−	0	Al.
262	DDCA	913/2005	Urambo	Songambele	−4.931640	32.191390	50.00	5.35	3	Al.
263	DDCA	915/2005	Urambo	Songambele	−4.931640	32.191390	52.00	4.9	0	Al.
264	WMP	12/78	Urambo	TAT Farm・No−16 Urambo	−5.083721	32.025670	52.80	2.3	3.37	M.D.
265	WMP	7/78	Urambo	TAT FarmNo−16	−5.074662	32.016663	48.80	−	4.5	M.D.
266	WMP	40/	Urambo	Ulyankulu	−4.532169	32.202220	85.00	12.5	1.2	M.D.
267	WMP	42/	Urambo	Ulyankulu	−4.500458	32.157188	82.00	28	2.3	M.D.
268	WMP	64/	Urambo	Ulyankulu	−4.495790	32.040022	82.00	12	6.5	M.D.
269	WMP	43/78	Urambo	Urambo Town	−5.074744	32.072591	72.90	5.5	13.5	M.D.
270	WMP	2/69	Urambo	Urambo prison	−5.183246	32.043564	76.25	0.15	1.8	M.D.
271	WMP	3/69	Urambo	Urambo Prison	−5.174201	32.043577	90.20	2.7	4.7	M.D.
272	WMP	12/76	Urambo	Urambo Town	−5.065696	32.070800	64.26	4.9	3.4	M.D.
273	WMP	41/78	Urambo	Urambo Town	−5.065708	32.078918	71.00	5.5	3.37	M.D.
274	WMP	42/78	Urambo	Urambo Town	−5.074744	32.072591	53.70	4.4	5.62	M.D.
275	WMP	254/77	Urambo	Urambo Town・Air field	−5.070226	32.075304	73.20	7.6	1.35	M.D.
276	WMP	32/66	Urambo	Usoke Trading・ centre	−5.106717	32.323341	33.20	2.1	13.5	I.R.
277	DDCA	916/2005	Urambo	Uyogo	−4.912200	32.029120	40.00	−	0	M.D.
278	DDCA	917/2005	Urambo	Uyogo	−4.912200	32.029120	31.00	3.82	2.571	M.D.
279	DDCA	919/2005	Urambo	Uyogo	−4.912200	32.029120	50.00	9.5	3.6	M.D.
280	DDCA	920/2005	Urambo	Uyogo	−4.912200	32.029120	45.00	−	0	M.D.
281	DDCA	921/2005	Urambo	Uyogo	−4.912200	32.029120	41.00	−	0	M.D.
282	DDCA	922/2005	Urambo	Uyogo	−4.912200	32.029120	35.00	−	0	M.D.
283	DDCA	918/2005	Urambo	Uyogo	−4.912200	32.029120	40.00	8.5	0	M.D.
284	DDCA	925/2005	Urambo	Uyogo	−4.912200	32.029120	34.00	5.2	6	M.D.
285	DDCA	926/2005	Urambo	Uyogo	−4.912200	32.029120	40.00	−	0	M.D.
286	DDCA	923/2005	Urambo	Uyogo	−4.912200	32.029120	40.00	−	0	M.D.
287	DDCA	924/2005	Urambo	Uyogo	−4.912200	32.029120	40.00	−	0	M.D.
288	WMP	136/74	Urambo	Uyowa	−4.486655	31.974240	65.50	−	0.4	M.D.
289	WMP	70/74	Urambo	Uyowa	−4.482680	32.075210	61.00	1.83	11.4	Al.

*) Data Source

WMP:International Bank for Reconstruction and Development/Brokoncult AB/MoW(1980)
"Tabora Region Water Maste Plan Final Report"
IDB:JICA (2008) "Study on the Groundwater Resources Development and Management in the Internal Drainage Basin"
DDCA:Drilling and Dam Construction Agency, "Drilling Reports in Tabora"
MoW:Ministry of Water, "Tabora Region Borehole Catalogue"
TW:Test Well Drilling Survey in this Study

*2) Coordinates Information (Latitude and Longitude)

There is no coordinates information in the borehole data from **DDCA** and **MoW.**
Coordinates of these data were set to **the center of the village to which the borehole belonged.**

*3) Geological Unit:

Al.: Recent Alluvium (Quaternary)
O.Al.: Old Alluvium (Pleistcene)
L.B.: Lake Beds (Pleistcene)
M.S.: Metamorphic Rocks & Sedimentary Rocks (Kavirondian or Nyanzian, Archean)
I.R.: Intrusive Rocks(Granite or Granodiorite, Archea
M.D.: Metamorphic Rocks (Dodoman, Archean)

Data Book B

Inventory of Existing Water Supply Facilities

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1	Igunga	Chabutwa	Chapela	3	Irobi	760	Shallow well	4.58195	33.49074	1251	1975	na	na	no pump	na	na	190	na	Pump Removed	na	na	na	na	na	na
HP-2	Igunga	Chabutwa	Chapela	3	Maendeleo	875	Shallow well	4.58001	33.49146	1248	1975	na	na	no pump	na	na	219	na	Pump Removed	na	na	na	na	na	na
HP-3	Igunga	Chabutwa	Chapela	3	Mnazi mmoja	920	Shallow well	4.57882	33.48441	1249	1975	na	na	no pump	na	na	230	na	Pump Removed	na	na	na	na	na	na
HP-4	Igunga	Chabutwa	Igumo	4	Igumo kati	620	Shallow well	4.57317	33.46248	1261	1973	na	na	no pump	na	na	62	na	Pump Removed	na	na	na	na	na	na
HP-5	Igunga	Chabutwa	Igumo	4	Igumo kati	620	Shallow well	4.57377	33.45491	1258	1973	na	na	no pump	na	na	62	na	Pump Removed	na	na	na	na	na	na
HP-6	Igunga	Chabutwa	Igumo	4	Igumo Masharik	560	Shallow well	4.57966	33.46583	1257	1973	na	na	no pump	na	na	56	na	Pump Removed	na	na	na	na	na	na
HP-7	Igunga	Chabutwa	Igumo	4	Kalemela Kaskazini	560	Shallow well	4.5777	33.46544	1259	1973	na	na	no pump	na	na	56	na	Pump Removed	na	na	na	na	na	na
HP-8	Igunga	Chabutwa	Majengo	6	Imalanguzu	456	Shallow well	4.60468	33.43599	1223	na	4	na	no pump	na	na	46	na	Pump Removed	Milky	Tasteless	26.3	6.4	0.5	14.9
HP-9	Igunga	Chabutwa	Majengo	6	Imalanguzu	456	Shallow well	4.59217	33.44124	1222	na	4.3	na	no pump	na	na	46	na	Pump Removed	Milky	Tasteless	25	6	0.4	18
HP-10	Igunga	Chabutwa	Majengo	6	Majengo	380	Shallow well	4.6047	33.4443	1231	na	na	na	Indian Mk-II	na	na	38	24	Unfunctionning	na	na	na	na	na	na
HP-11	Igunga	Chabutwa	Majengo	6	Majengo	380	Shallow well	4.60693	33.44216	1226	na	1.8	na	no pump	na	na	38	na	Pump Removed	Milky	Tasteless	27.3	6.3	1.1	16.5
HP-12	Igunga	Chabutwa	Majengo	6	Majengo	380	Shallow well	4.60473	33.44434	1229	na	na	na	no pump	na	na	40	na	Pump Removed	na	na	na	na	na	na
HP-13	Igunga	Chabutwa	Majengo	6	Mhimbili	612	Shallow well	4.61581	33.4487	1233	na	na	na	no pump	na	na	60	na	Pump Removed	Milky	Tasteless	27	5.92	0.3	51
HP-14	Igunga	Igoweko	Buhekela	3	Buhekela	1800	Shallow well	4.77539	33.70164	1137	1980	na	na	no pump	na	1980	230	na	Pump Removed	na	na	na	na	na	na
HP-15	Igunga	Igoweko	Buhekela	3	Buhekela	1800	Shallow well	4.7746	33.71078	1129	1980	na	na	no pump	na	1980	190	na	Pump Removed	na	na	na	na	na	na
HP-16	Igunga	Igoweko	Buhekela	3	Buhekela	1800	Deep well	4.77676	33.71803	1133	1980	na	na	no pump	na	1980	219	na	Pump Removed	na	na	na	na	na	na
HP-17	Igunga	Igoweko	Igoweko	2	Isunga	1400	Deep well	4.73732	33.5905	1179	na	na	na	no pump	na	na	140	na	Pump Removed	na	na	na	na	na	na
HP-18	Igunga	Igoweko	Igoweko	2	Kagauwa	790	Shallow well	4.75001	33.60481	1179	na	na	na	no pump	na	na	79	na	Pump Removed	na	na	na	na	na	na
HP-19	Igunga	Igoweko	Uswaya	9	Mtukula	660	Shallow well	4.69101	33.49073	1235	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-20	Igunga	Igoweko	Uswaya	9	Mtukula	660	Shallow well	4.69079	33.49078	1235	na	na	na	Tanira	na	na	66	24	Unfunctionning	na	na	na	na	na	na
HP-21	Igunga	Igoweko	Uswaya	9	Mwakadele	1296	Deep well	4.71163	33.52151	1239	2006	3.3	23	Afridev	na	2006	130	24	Functionning	Clear	Salty	27.3	5.9	0.24	22.6
HP-22	Igunga	Igoweko	Uswaya	9	Mwakadele	1296	Deep well	4.70401	33.51944	1236	2006	3.6	14	Afridev	na	2006	130	na	Functionning	Clear	Salty	27.2	6.4	0.7	32
HP-23	Igunga	Igoweko	Uswaya	9	Mwakadele	1296	Deep well	4.70404	33.5195	1236	na	na	na	Tanira	na	na	130	25	Unfunctionning	na	na	na	na	na	na
HP-24	Igunga	Igoweko	Uswaya	9	Mwakunuha	670	Deep well	4.6747	33.52219	1223	2006	7.5	47.4	Afridev	na	2006	67	24	Functionning	Clear	Salty	26.7	6.92	2.3	77.8
HP-25	Igunga	Igoweko	Uswaya	9	Uswaya	816	Deep well	4.69008	33.50302	1226	2006	4.2	68	Afridev	na	2006	90	na	Functionning	Clear	Salty	27.3	6.64	2.3	149.4
HP-26	Igunga	Igoweko	Uswaya	9	Uswaya	816	Shallow well	4.69196	33.50289	1227	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-27	Igunga	Igoweko	Uswaya	9	Uswaya	816	Shallow well	4.69182	33.50286	1227	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-28	Igunga	Igunga	Isugilo	4	Mwayunge	Unknown	Deep well	4.29077	33.88152	1086	na	na	na	Afridev	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-29	Igunga	Igunga	Isugilo	4	Nkokoto	Unknown	Shallow Well	4.28282	33.8821	1085	na	2.4	12	Tanira	na	na	na	6	Functionning	Colourless	Tasteless	24.6	8.26	4.3	28.8
HP-30	Igunga	Igunga	Isugilo	4	Nkokoto	Unknown	Deep well	4.27982	33.88082	1088	na	na	na	Afridev	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-31	Igunga	Igunga	Isugilo	4	Stoo ya Pamba	Unknown	Deep well	4.27874	33.87538	1081	na	na	na	Afridev	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-32	Igunga	Igunga	Makomero	1	Magharibi	600	Deep well	4.2998	33.98211	1053	na	na	na	Afridev	na	na	60	12	Functionning	Colourless	Little Salty	26.7	7.6	1.2	70
HP-33	Igunga	Igunga	Mgongoro	1	Uswahilini	420	Deep well	4.38917	34.04618	1042	na	na	na	Afridev	na	na	63	na	Unfunctionning	na	na	na	na	na	na
HP-34	Igunga	Igurubi	Igurubi	1	Bugwandege	300	Deep well	3.98864	33.71142	1070	2003	na	na	ST	na	2003	na	12	Stolen	na	na	na	na	na	na
HP-35	Igunga	Isakamaliwa	Isakamaliwa	1	Zahanati	1000	Deep well	4.07062	34.04219	1045	na	na	na	Tanira	na	na	100	24	Unfunctionning	na	na	na	na	na	na
HP-36	Igunga	Isakamaliwa	Kidalu	1	Ng'wang'wale	3000	Deep well	4.14566	34.03333	1041	1997	na	na	no pump	na	1997	300	24	Pump Removed	na	na	na	na	na	na
HP-37	Igunga	Itumba	Itumba	2	Itumba ofisini	840	Shallow well	4.58962	33.84704	1073	1972	na	na	no pump	na	na	84	24	Pump Removed	na	na	na	na	na	na
HP-38	Igunga	Itumba	Itumba	2	Mhamammoja	1350	Deep well	4.60206	33.80802	1089	2006	na	na	Afridev	na	2006	135	24	Functionning	Clear	Salty	26.2	6.83	2	239
HP-39	Igunga	Itumba	Lugubu	4	Lugubu	5300	Shallow well	4.55522	33.87362	1062	2004	na	na	Afridev	na	2004	530	24	Functionning	Colourless	Salty	27.1	7.67	1.28	46.8
HP-40	Igunga	Itumba	Lugubu	4	Lugubu	5300	Deep well	4.56	33.87368	1060	2003	na	na	Afridev	na	na	530	24	Unfunctionning	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-41	Igunga	Itumba	Lugubu	4	Lugubu	5300	Shallow well	4.55602	33.86675	1065	2006	na	na	Afridev	na	na	530	na	Unfunctionning	na	na	na	na	na	na
HP-42	Igunga	Itumba	Lugubu	4	Lugubu	5300	Deep well	4.55604	33.86674	1065	2007	na	na	no pump	na	na	530	na	Pump Removed	na	na	na	na	na	na
HP-43	Igunga	Kininginila	Iyogelo	1	Migunga	400	Deep well	4.04274	33.99464	1050	1995	na	na	Tanira	na	1995	40	24	Unfunctionning	na	na	na	na	na	na
HP-44	Igunga	Mbutu	Ibutamisuzi	1	Kampuni	500	Deep well	4.18035	33.95039	1055	na	na	na	Indian Mk-II	na	na	50	24	Unfunctionning	na	na	na	na	na	na
HP-45	Igunga	Mwamashimba	Imalanguzu	1	Buchele	2160	Deep well	4.11763	33.80041	1123	1999	na	na	Tanira	na	1999	216	10	Functionning	Clear	Very Salty	30.8	9.03	4.7	210
HP-46	Igunga	Mwisi	Busomeke	5	Kati	2696	Shallow well	4.52634	33.46682	1272	na	na	na	Afridev	na	2008	270	24	Functionning	Clear	Little Salty	26.4	6.2	0.43	33.3
HP-47	Igunga	Mwisi	Busomeke	5	Kati	2696	Shallow well	4.52239	33.46571	1274	na	na	na	no pump	na	na	270	na	Pump Removed	na	na	na	na	na	na
HP-48	Igunga	Mwisi	Busomeke	5	Kati	2696	Shallow well	4.52134	33.45459	1274	na	na	na	Afridev	na	2009	270	na	Unfunctionning	Milky	Little Salty	26.7	6.6	0.6	17.36
HP-49	Igunga	Mwisi	Busomeke	5	Kusini A	1860	Shallow well	4.54988	33.47058	1258	na	na	na	no pump	na	na	180	na	Pump Removed	na	na	na	na	na	na
HP-50	Igunga	Mwisi	Busomeke	5	Kusini A	1750	Shallow well	4.52523	33.48599	1254	na	na	na	no pump	na	na	175	na	Pump Removed	na	na	na	na	na	na
HP-51	Igunga	Mwisi	Isenegeja	1	Isenegeja Mjini Magharibi	320	Shallow well	4.52457	33.44086	1278	1999	na	na	Afridev	na	1999	32	24	Functionning	Milky	Salty	27.6	7.04	1.3	73.2
HP-52	Igunga	Mwisi	Mizanza	9	Buhekela	460	Shallow well	4.54212	33.55624	1216	1985	na	na	no pump	na	na	35	na	Pump Removed	na	na	na	na	na	na
HP-53	Igunga	Mwisi	Mizanza	9	Dodoma	350	Shallow well	4.52177	33.54269	1215	1981	na	na	no pump	na	na	17	na	Pump Removed	Milky	Tasteless	27	6.62	0.7	17.1
HP-54	Igunga	Mwisi	Mizanza	9	Kati	500	Shallow well	4.534	33.5409	1221	1981	na	na	no pump	na	na	25	24	Pump Removed	na	na	na	na	na	na
HP-55	Igunga	Mwisi	Mizanza	9	Kati	500	Shallow well	4.5339	33.53996	1222	1981	na	na	no pump	na	na	25	24	Pump Removed	na	na	na	na	na	na
HP-56	Igunga	Mwisi	Mizanza	9	Misana	400	Shallow well	4.53251	33.52724	1231	1981	na	na	no pump	na	na	20	na	Pump Removed	na	na	na	na	na	na
HP-57	Igunga	Mwisi	Mizanza	9	Misana	400	Shallow well	4.53134	33.53286	1226	1980	na	na	no pump	na	na	20	na	Pump Removed	na	na	na	na	na	na
HP-58	Igunga	Mwisi	Mizanza	9	Mizanza	320	Shallow well	4.54615	33.54302	1218	1981	na	na	no pump	na	na	20	24	Pump Removed	na	na	na	na	na	na
HP-59	Igunga	Mwisi	Mizanza	9	Mizanza	600	Shallow well	4.56689	33.51566	1229	1981	na	na	no pump	na	na	30	na	Pump Removed	na	na	na	na	na	na
HP-60	Igunga	Mwisi	Mizanza	9	Mizanza	600	Shallow well	4.56206	33.51774	1230	1985	na	na	no pump	na	na	60	na	Pump Removed	na	na	na	na	na	na
HP-61	Igunga	Ndembez	Moyofuke	1	Shelui	300	Deep well	4.33268	33.53714	1197	1999	na	na	Afridev	na	2000	30	na	Unfunctionning	na	na	na	na	na	na
HP-62	Igunga	Ndembez	Ndembezi	4	Igomamhuli A	1700	Deep well	4.3263	33.41709	1257	1996	na	na	ST	na	1997	170	na	Stolen	Turbid	Little Salty	25.8	7.8	2.6	124.2
HP-63	Igunga	Ndembez	Ndembezi	4	Igomamhuli A	1700	Deep well	4.32165	33.41544	1258	2005	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-64	Igunga	Ndembez	Ndembezi	4	Sebelo B	860	Deep well	4.30437	33.43532	1246	1997	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-65	Igunga	Ndembez	Ndembezi	4	Usulwa	1600	Deep well	4.31399	33.40336	1241	1997	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-66	Igunga	Ngulu	Ngulu	1	Mwandumpolo	2100	Deep well	4.17103	33.45905	1238	1998	na	30	Tanira	na	na	210	7	Unfunctionning	na	na	na	na	na	na
HP-67	Igunga	Nguvmoja	Mwanshoma	2	Mabambasi	1200	Deep well	4.42791	33.79141	1151	2006	na	140	no pump	na	NP	300	na	Pump Removed	na	na	na	na	na	na
HP-68	Igunga	Nguvmoja	Mwanshoma	2	Mashololo	600	Deep well	4.42975	33.81817	1123	2006	na	na	no pump	na	NP	150	na	Pump Removed	na	na	na	na	na	na
HP-69	Igunga	Nguvmoja	Nguvumoja	1	Isukamahela	1653	Deep well	4.41857	33.85589	1143	1995	na	45	Afridev	na	1996	330	12	Functionning	Clear	Little Salty	28.6	6.18	0.94	50.8
HP-70	Igunga	Nkinga	Nkinga	4	Hospitali	2000	Deep well	4.42196	33.43613	1302	na	na	na	Afridev	na	na	200	24	Unfunctionning	na	na	na	na	na	na
HP-71	Igunga	Nkinga	Nkinga	4	Igalula	700	Deep well	4.42102	33.44495	1282	na	na	na	no pump	na	na	70	na	Pump Removed	na	na	na	na	na	na
HP-72	Igunga	Nkinga	Nkinga	4	Njiapanda	2000	Deep well	4.39857	33.44256	1253	2007	na	65	Afridev	na	2007	200y	24	Functionning	Clear	Salty	27.3	7.3	4.4	97.2
HP-73	Igunga	Nkinga	Nkinga	4	Sokoni	1500	Deep well	4.42096	33.44438	1283	1995	na	na	Tanira	na	1995	150	24	Unfunctionning	na	na	na	na	na	na
HP-74	Igunga	Nkinga	Ulaya	1	Isevya	3200	Deep well	4.37895	33.43096	1263	na	na	na	Indian Mk-III	na	na	640	pump not in use	Unfunctionning	na	na	na	na	na	na
HP-75	Igunga	Nyandekwa	Itale	1	Itale	1120	Deep well	4.31582	33.50574	1218	2001	na	na	Indian Mk-III	na	na	112	24	Functionning	Clear	Tasteless	28.4	6.7	1.2	72
HP-76	Igunga	Nyandekwa	Nyandekwa	1	Mwabashosha	600	Deep well	4.23809	33.52356	1184	2009	na	na	Tanira	na	2009	120	12	Functionning	Clear	Salty	24.3	7.2	2.2	89.3
HP-77	Igunga	Simbo	Simbo	8	Buganho	1730	Deep well	4.65828	33.42653	1215	na	na	na	Indian Mk-II	na	1996	173	na	Pump Removed	na	na	na	na	na	na
HP-78	Igunga	Simbo	Simbo	8	Busomeke	4050	Deep well	4.65703	33.42955	1224		na	na	Afridev	na	2006	520	24	Functionning	Clear	Tasteless	27	6.4	0.72	25.6
HP-79	Igunga	Simbo	Simbo	8	Busomeke	4050	Shallow well	4.6487	33.43372	1228	na	na	na	no pump	na	na	521	na	Pump Removed	na	na	na	na	na	na
HP-80	Igunga	Simbo	Simbo	8	Busomeke	4050	Shallow well	4.65849	33.43267	1228	na	na	na	no pump	na	na	522	na	Pump Removed	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordidnates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-81	Igunga	Simbo	Simbo	8	Idubula	1620	Deep well	4.65163	33.45132	1241	1996	na	na	Indian Mk-II	na	1996	160	24	Pump Removed	na	na	na	na	na	na
HP-82	Igunga	Simbo	Simbo	8	Nzibe	1800	Deep well	4.66244	33.43852	1234	na	na	27	Afridev	na	2006	360	24	Functionning	Grey	Tasteless	25	6	0.32	12.12
HP-83	Igunga	Simbo	Simbo	8	Nzibe	1800	Unknown	4.65697	33.42956	1223	na	na	na	no pump	na	na	180	na	Pump Removed	na	na	na	na	na	na
HP-84	Igunga	Simbo	Simbo	8	Wikumbilunde	4050	Shallow well	4.64944	33.43654	1240	na	na	na	no pump	na	na	405	na	Pump Removed	na	na	na	na	na	na
HP-85	Igunga	Simbo	Tambalalae	5	Kazima	1780	Shallow well	4.62433	33.53282	1217	1980	na	na	no pump	na	1980	356	na	Pump Removed	na	na	na	na	na	na
HP-86	Igunga	Simbo	Tambalalae	5	Ugimu	2720	Deep well	4.64019	33.51053	1232	1995	na	na	Afridev	na	2009	544	na	Functionning	Clear	Salty	26	6.1	1.3	105.6
HP-87	Igunga	Simbo	Tambalalae	5	Ugimu	2720	Deep well	4.63569	33.51295	1230	1962	na	na	no pump	na	na	544	na	Pump Removed	Milky	Tasteless	24	6.2	0.4	8.16
HP-88	Igunga	Simbo	Tambalalae	5	Ugimu	2720	Shallow well	4.64144	33.51248	1230	1980	na	na	Tanira	na	1980	544	na	Unfunctionning	na	na	na	na	na	na
HP-89	Igunga	Simbo	Tambalalae	5	Ugimu	2720	Shallow well	4.64586	33.51162	1228	1980	3.7	na	no pump	na	na	540	na	Pump Removed	Milky	Tasteless	26.7	6.4	1.4	112
HP-90	Igunga	Sungwizi	Sungwizi	6	Ilulu	1200	Shallow well	4.45793	33.51958	1234	na	2.4	na	no pump	na	na	120	na	Pump Removed	Clear	Salty	24.5	7.8	7.4	136
HP-91	Igunga	Sungwizi	Sungwizi	6	Ilulu	1200	Shallow well	4.45825	33.51738	1233	na	na	na	no pump	na	na	120	na	Pump Removed	na	na	na	na	na	na
HP-92	Igunga	Sungwizi	Sungwizi	6	Mpangale B	612	Shallow well	4.43818	33.50451	1249	1982	na	na	no pump	na	na	62	na	Pump Removed	na	na	na	na	na	na
HP-93	Igunga	Sungwizi	Sungwizi	6	Segesero	650	Shallow well	4.45826	33.51771	1231	1980	na	na	no pump	na	na	65	na	Pump Removed	na	na	na	na	na	na
HP-94	Igunga	Sungwizi	Sungwizi	6	Ukomele	890	Shallow well	4.46091	33.51624	1233	1982	na	65	no pump	na	na	89	na	Pump Removed	na	na	na	na	na	na
HP-95	Igunga	Sungwizi	Sungwizi	6	Ukomele	540	Shallow well	4.45285	33.51674	1239	1980	na	na	no pump	na	na	54	na	Pump Removed	na	na	na	na	na	na
HP-96	Igunga	Ziba	Iborogelo	1	Ulunde	Unknown	Deep well	4.23892	33.47128	1197	2006	na	30	Indian Mk-III	na	2006	1.5	24	Functionning	Clear	Tasteless	27.9	7.82	10.3	129.9
HP-97	Igunga	Ziba	Ziba	8	Bujiku	445	Deep well	4.23717	33.40757	1243	2005	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-98	Igunga	Ziba	Ziba	8	Bulyambuli	394	Deep well	4.25573	33.41169	1233	2005	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-99	Igunga	Ziba	Ziba	8	Busalu	800	Deep well	4.23813	33.39981	1250	2005	na	na	Indian Mk-II	na	na	80	12	Unfunctionning	na	na	na	na	na	na
HP-100	Igunga	Ziba	Ziba	8	Igumila	909	Deep well	4.23015	33.39545	1259	2005	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-101	Igunga	Ziba	Ziba	8	Ipuli	1800	Deep well	4.28024	33.40283	1234	2006	1.6	28.8	Indian Mk-II	na	na	180	12	Functionning	Clear	Salty	29	7.3	4	165
HP-102	Igunga	Ziba	Ziba	8	Iselamagazi	335	Deep well	4.19654	33.40723	1252	2005	na	na	Indian Mk-III	na	na	33.5	12	Functionning	Clear	Salty	29	6.97	2.1	56
HP-103	Igunga	Ziba	Ziba	8	Kalinda	523	Deep well	4.23667	33.42369	1234	2005	na	na	Indian Mk-III	na	na	52.3	12	Functionning	Clear	Salty	27	7.6	4.4	110
HP-104	Igunga	Ziba	Ziba	8	Lugulung'ombe	2988	Deep well	4.26115	33.39682	1238	2005	7.5	22.5	Indian Mk-II	na	2006	299	12	Unfunctionning	na	na	na	na	na	na
HP-105	Nzega	Budushi	Budushi	1	Uswahilini	na	Deep well	4.79031	33.33165	1214	2008	na	na	Afridev	na	2008	na	24	Functionning	Clear	Salty	28.7	6.3	1.52	63.5
HP-106	Nzega	Budushi	Itima	1	Iyomboitima	na	Unknown	4.84683	33.31948	1219	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-107	Nzega	Bukene	Bukene	10	Ikena	na	Shallow well	4.21521	32.88623	1186	2006	na	6	Tanira	6	2006	na	na	Unfunctionning	na	na	na	na	na	na
HP-108	Nzega	Bukene	Bukene	10	Ilululma	na	Shallow well	4.23078	32.88475	1188	2006	na	6	Tanira	6	2006	na	na	Unfunctionning	na	na	na	na	na	na
HP-109	Nzega	Bukene	Bukene	10	Ilululma	na	Shallow well	4.22962	32.87875	1189	2009	na	6	no pump	6	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-110	Nzega	Bukene	Bukene	10	Majengo	na	Shallow well	4.21552	32.88611	1187	2006	na	6	Tanira	6	2006	na	24	Functionning	Clear	Fresh	28	6.1	0.4	64
HP-111	Nzega	Bukene	Bukene	10	Mbale	na	Shallow well	4.21245	32.9044	1191	2006	na	8	Tanira	8	2006	na	24	Functionning	Clear	Fresh	28.2	6.2	0.4	46
HP-112	Nzega	Bukene	Bukene	10	Mwantoba	na	Shallow well	4.22015	32.87933	1186	2009	na	100	no pump	100	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-113	Nzega	Bukene	Bukene	10	Mwantoba	na	Shallow well	4.21873	32.87996	1187	2006	na	6	Tanira	6	2006	na	24	Functionning	Clear	Salty	27.8	6.4	1.56	67.3
HP-114	Nzega	Bukene	Bukene	10	Nyenze	na	Shallow well	4.22288	32.89273	1188	2006	na	7	Tanira	7	2006	na	na	Unfunctionning	na	na	na	na	na	na
HP-115	Nzega	Bukene	Bukene	10	Tanganyika	na	Shallow well	4.2314	32.86545	1181	2006	na	6	Tanira	6	2006	na	24	Functionning	Clear	Fresh	27.8	6.3	0.4	44
HP-116	Nzega	Bukene	Bukene	10	Tanganyika	na	Deep well	4.23187	32.86533	1180	2006	na	80	no pump	80	2006	na	na	Pump Removed	na	na	na	na	na	na
HP-117	Nzega	Igusule	Sojo	13	Bombani	na	Deep well	3.95529	32.86791	1207	2003	na	na	Afridev	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-118	Nzega	Igusule	Sojo	13	Bombani	na	Deep well	3.96676	32.86699	1210	2003	na	na	Afridev	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-119	Nzega	Igusule	Sojo	13	Bukalila	na	Deep well	3.94719	32.85116	1196	2003	na	na	Afridev	na	2003	na	24	Functionning	na	na	na	na	na	na
HP-120	Nzega	Igusule	Sojo	13	Bukalila	na	Deep well	3.94297	32.83474	1194	2003	na	na	Afridev	na	2003	na	24	Functionning	Clear	Fresh	27.1	6.5	ND	18

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-121	Nzega	Igusule	Sojo	13	Igudija	na	Deep well	3.953	32.85161	1204	2003	na	na	Afridev	na	2003	na	24	Functionning	Clear	Salty	27.8	5.5	1.56	288.9
HP-122	Nzega	Igusule	Sojo	13	Ngogoto	na	Deep well	4.01132	32.85589	1161	2003	na	na	Afridev	na	2003	na	na	Functionning	Clear	Salty	27.1	5.1	1.59	299.2
HP-123	Nzega	Igusule	Sojo	13	Ngogoto	na	Deep well	3.99754	32.85568	1174	2003	na	na	Afridev	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-124	Nzega	Igusule	Sojo	13	Ngogoto	na	Deep well	3.98578	32.85896	1178	2003	na	na	Afridev	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-125	Nzega	Igusule	Sojo	13	Nseme	na	Deep well	3.94066	32.86305	1198	2003	na	na	Afridev	na	2003	na	24	Functionning	Clear	Salty	27.6	4.9	1.54	250
HP-126	Nzega	Igusule	Sojo	13	Nseme	na	Deep well	3.93916	32.86778	1199	2003	na	na	Afridev	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-127	Nzega	Igusule	Sojo	13	Selemi	na	Deep well	3.92789	32.86115	1195	2003	na	na	Afridev	na	2003	na	24	Functionning	Clear	Salty	27.9	4.95	1.57	290
HP-128	Nzega	Igusule	Sojo	13	Sojo Mpya	na	Deep well	3.94084	32.85171	1196	2003	na	na	Afridev	na	2003	na	24	Functionning	Clear	Fresh	27.2	6.8	ND	99
HP-129	Nzega	Igusule	Sojo	13	Sojo Mpya	na	Shallow well	3.94507	32.85814	1200	2003	na	na	Tanira	na	2003	na	24	Functionning	Clear	Fresh	27.4	6	0.4	21.8
HP-130	Nzega	Igusule	Wela li	1	Wela Kati	na	Deep well	3.95406	32.83328	1207	na	na	na	Indian Mk-II	na	na	na	24	Functionning	Clear	Fresh	27.8	6.8	ND	18
HP-131	Nzega	Ijanija	Butandula	1	Butandula	na	Deep well	4.16294	33.11915	1206	2005	na	na	Indian Mk-II	na	2005	na	24	Functionning	Clear	Bitter/Salty	28.2	6.8	1.92	325
HP-132	Nzega	Ijanija	Ijanija	6	Buyenga	na	Shallow well	4.20107	33.11513	1201	1961	na	7	no pump	na	1961	na	na	Pump Removed	na	na	na	na	na	na
HP-133	Nzega	Ijanija	Ijanija	6	Igunhwa	na	Shallow well	4.19119	33.13073	1206	1958	na	8	no pump	na	1958	na	na	Pump Removed	na	na	na	na	na	na
HP-134	Nzega	Ijanija	Ijanija	6	Ijanija	na	Shallow well	4.20206	33.12148	1217	2005	na	7	Tanira	na	2005	na	na	Unfunctionning	na	na	na	na	na	na
HP-135	Nzega	Ijanija	Ijanija	6	Ijanija	na	Shallow well	4.1898	33.11818	1199	1983	na	6.8	no pump	na	1983	na	na	Pump Removed	na	na	na	na	na	na
HP-136	Nzega	Ijanija	Ijanija	6	Ijanija	na	Shallow well	4.19652	33.11491	1202	1988	na	6	no pump	na	1988	na	na	Pump Removed	na	na	na	na	na	na
HP-137	Nzega	Ijanija	Ijanija	6	Ijanija	na	Shallow well	4.19573	33.11532	1203	2000	na	na	Tanira	na	2000	na	na	Unfunctionning	na	na	na	na	na	na
HP-138	Nzega	Ijanija	Makomelo	1	Makomelo	na	Shallow well	4.22137	33.14609	1214	2004	na	na	Shinyanga pump	na	2004	na	24	Functionning	clear	No Salty	27.2	6.8	0.4	64
HP-139	Nzega	Ijanija	Uchama	1	Uchama	na	Deep well	4.17554	33.17293	1213	2007	na	na	no pump	na	2007	na	24	Pump Removed	clear	Salty	28.3	6.9	1.87	120
HP-140	Nzega	Ikindwa	Ikindwa	12	Ikindwa	na	Shallow well	4.12904	32.89624	1198	2009	na	8	Tanira	8	2009	na	24	Functionning	clear	Salty	29.3	6.5	0.4	15
HP-141	Nzega	Ikindwa	Ikindwa	12	Ikindwa	na	Shallow well	4.12754	32.89847	1196	1998	na	7	no pump	7	na	na	24	Pump Removed	na	na	na	na	na	na
HP-142	Nzega	Ikindwa	Ikindwa	12	Ikindwa	na	Shallow well	4.12346	32.89994	1184	2004	na	8	Tanira	8	2004	na	24	Abandoned	na	na	na	na	na	na
HP-143	Nzega	Ikindwa	Ikindwa	12	Ikindwa	na	Shallow well	4.12505	32.90048	1186	1970	na	na	no pump	na	na	na	24	Pump Removed	na	na	na	na	na	na
HP-144	Nzega	Ikindwa	Ikindwa	12	Ishinde	na	Shallow well	4.15005	32.92075	1203	1990	na	7	no pump	7	1990	na	24	Pump Removed	na	na	na	na	na	na
HP-145	Nzega	Ikindwa	Ikindwa	12	Ntuli	na	Shallow well	4.15116	32.91997	1204	1990	na	8	no pump	8	1990	na	24	Pump Removed	na	na	na	na	na	na
HP-146	Nzega	Ikindwa	Ikindwa	12	Ntuli	na	Shallow well	4.15528	32.91833	1206	2008	na	7	Tanira	7	2008	na	24	Functionning	clear	Fresh	28.9	6.5	0.4	45
HP-147	Nzega	Ikindwa	Ikindwa	12	Nyahawe	na	Shallow well	4.11885	32.90926	1184	1980	na	7	no pump	na	na	na	24	Pump Removed	na	na	na	na	na	na
HP-148	Nzega	Ikindwa	Ikindwa	12	Nyahawe	na	Shallow well	4.11878	32.91192	1182	2008	na	8	Tanira	8	2008	na	24	Unfunctionning	na	na	na	na	na	na
HP-149	Nzega	Ikindwa	Ikindwa	12	Nyahawe	na	Shallow well	4.12731	32.91239	1186	2008	na	7	Tanira	7	2008	na	24	Unfunctionning	na	na	na	na	na	na
HP-150	Nzega	Ikindwa	Ikindwa	12	Ntanza	na	Shallow well	4.12869	32.89057	1203	2002	na	6	Tanira	6	2008	na	24	Functionning	na	na	na	na	na	na
HP-151	Nzega	Ikindwa	Ikindwa	12	Ntanza	na	Shallow well	4.1284	32.89288	1202	na	na	7	no pump	7	na	na	24	Pump Removed	na	na	na	na	na	na
HP-152	Nzega	Ikindwa	Kayombo	14	Ibongoya	na	Shallow well	4.13815	32.87429	1201	2008	na	6	Tanira	na	2008	na	24	Functionning	clear	Fresh	28	7.1	0.4	88
HP-153	Nzega	Ikindwa	Kayombo	14	Ibongoya	na	Shallow well	4.14559	32.86929	1200	2007	na	7	Tanira	na	2007	na	24	Functionning	clear	Fresh	27.9	6.8	0.4	85
HP-154	Nzega	Ikindwa	Kayombo	14	Ibongoya	na	Shallow well	4.14618	32.87312	1203	2001	na	7	no pump	7	2001	na	24	Pump Removed	na	na	na	na	na	na
HP-155	Nzega	Ikindwa	Kayombo	14	Ibongoya	na	Shallow well	4.1442	32.88275	1211	2005	na	7	Tanira	7	2005	na	24	Functionning	na	na	na	na	na	na
HP-156	Nzega	Ikindwa	Kayombo	14	Idete	na	Shallow well	4.17391	32.86127	1192	2009	na	na	no pump	na	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-157	Nzega	Ikindwa	Kayombo	14	Idete	na	Shallow well	4.17257	32.85307	1192	2009	na	6	Tanira	6	2009	na	24	Under Construction	na	na	na	na	na	na
HP-158	Nzega	Ikindwa	Kayombo	14	Imalanguzu	na	Shallow well	4.14874	32.90904	1209	2001	na	7	Tanira	7	2001	na	24	Functionning	clear	Fresh	28.8	7.2	0.4	49
HP-159	Nzega	Ikindwa	Kayombo	14	Inyengeja	na	Shallow well	4.14586	32.8825	1209	1998	na	8	no pump	8	1998	na	24	Pump Removed	na	na	na	na	na	na
HP-160	Nzega	Ikindwa	Kayombo	14	Isukamawe	na	Shallow well	4.14189	32.88902	1204	2007	na	7	Tanira	7	2007	na	24	Functionning	clear	Fresh	28	7.2	0.4	42

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Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-161	Nzega	Ikindwa	Kayombo	14	Isukamawe	na	Shallow well	4.14501	32.89025	1208	1999	na	6	no pump	6	1999	na	24	Pump Removed	na	na	na	na	na	na
HP-162	Nzega	Ikindwa	Kayombo	14	Isukamawe	na	Shallow well	4.13367	32.8853	1209	2009	na	8	Tanira	8	2009	na	24	Functionning	na	na	na	na	na	na
HP-163	Nzega	Ikindwa	Kayombo	14	Matale	na	Shallow well	4.1498	32.89951	1211	2007	na	7	Tanira	7	2007	na	24	Unfunctionning	na	na	na	na	na	na
HP-164	Nzega	Ikindwa	Kayombo	14	Mumba	na	Shallow well	4.14352	32.86056	1199	2007	na	8	Tanira	na	2007	na	24	Functionning	clear	Fresh	28	6.5	0.4	46
HP-165	Nzega	Ikindwa	Kayombo	14	Uchama	na	Shallow well	4.12645	32.87317	1199	2008	na	7	Tanira	na	2008	na	24	Functionning	clear	Salty	28.6	7.3	1.5	27.2
HP-166	Nzega	Ikindwa	Mololo	8	Ifubyanzige	na	Shallow well	4.10296	32.85345	1171	2000	na	8	Tanira	8	2000	na	24	Functionning	clear	Salty	28	7	0.4	16.6
HP-167	Nzega	Ikindwa	Mololo	8	Izima	na	Shallow well	4.09446	32.86862	1162	2004	na	7	Tanira	7	2004	na	24	Functionning	clear	Fresh	28.6	6.9	0.4	47
HP-168	Nzega	Ikindwa	Mololo	8	Kilyaloha	na	Shallow well	4.08799	32.89008	1154	2000	na	7	Tanira	7	2000	na	24	Unfunctionning	na	na	na	na	na	na
HP-169	Nzega	Ikindwa	Mololo	8	Kilyandeta	na	Shallow well	4.12384	32.86731	1178	2000	na	6	Tanira	6	2000	na	24	Unfunctionning	na	na	na	na	na	na
HP-170	Nzega	Ikindwa	Mololo	8	Mololo	na	Shallow well	4.09981	32.86177	1167	2004	na	8	Tanira	8	2004	na	24	Functionning	clear	Fresh	28.3	6.5	0.4	42
HP-171	Nzega	Ikindwa	Mololo	8	Mololo	na	Shallow well	4.09841	32.86539	1166	2004	na	7	Tanira	7	2004	na	24	Unfunctionning	na	na	na	na	na	na
HP-172	Nzega	Ikindwa	Mololo	8	Mololo	na	Shallow well	4.10215	32.86589	1167	2000	na	7	Tanira	7	2000	na	24	Unfunctionning	na	na	na	na	na	na
HP-173	Nzega	Ikindwa	Mololo	8	Sole	na	Shallow well	4.09322	32.91229	1163	2000	na	7	Tanira	7	2000	na	24	Functionning	clear	Fresh	28.2	6.8	0.4	56
HP-174	Nzega	Isagenhe	Buhulyu	1	Buchemba	na	Shallow well	4.41789	32.89951	1182	2009	na	8	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-175	Nzega	Isagenhe	Isagenhe	2	Isagenhe	na	Shallow well	4.33828	32.89312	1207	2009	na	7.2	Tanira	na	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-176	Nzega	Isagenhe	Isagenhe	2	Isagenhe	na	Shallow well	4.33774	32.89678	1206	na	na	4	UC	na	na	na	na	Under Construction	na	na	na	na	na	na
HP-177	Nzega	Isagenhe	Kidete	2	Kidete	na	Shallow well	4.25321	32.94771	1203	2008	na	na	Tanira	na	2008	na	24	Functionning	Clear	Fresh	27	5.4	ND	12
HP-178	Nzega	Isagenhe	Kidete	2	Mbulagili	na	Shallow well	4.2364	32.93533	1191	2009	na	na	Tanira	na	2009	na	24	Functionning	Clear	Fresh	27.9	5.9	0.4	18.9
HP-179	Nzega	Isagenhe	Zugimlole	2	Kawe	na	Shallow well	4.35072	32.93336	1211	2009	na	7.4	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-180	Nzega	Isagenhe	Zugimlole	2	Zugimlole	na	Shallow well	4.36657	32.93363	1202	1980	na	6	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-181	Nzega	Isanzu	Ipumbuli	1	Izinga	UNKNOWN	Shallow well	4.30951	33.05858	1217	2009	na	na	no pump	na	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-182	Nzega	Isanzu	Isanzu	3	Isanzu	UNKNOWN	Shallow well	4.26904	33.08097	1234	2005	na	7	Tanira	na	2005	na	na	Functionning	Clear	Clear	28.8	6.6	0.4	16.2
HP-183	Nzega	Isanzu	Isanzu	3	Iyangulo	UNKNOWN	Shallow well	4.28042	33.05005	1244	2005	na	8	Tanira	na	2005	na	na	Functionning	Clear	Clear	28.4	6.7	0.4	19.3
HP-184	Nzega	Isanzu	Isanzu	3	Kadata	UNKNOWN	Shallow well	4.27232	33.05813	1240	2008	na	6	Tanira	na	2008	na	na	Functionning	Clear	Clear	28.7	6.5	0.4	18.8
HP-185	Nzega	Isanzu	Kilino 'A'	1	NgWalukwi	UNKNOWN	Shallow well	4.34439	33.01121	1218	2009	na	6	Indian Mk-II	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-186	Nzega	Isanzu	Mhembe	1	Isukamahela	UNKNOWN	Shallow well	4.25001	33.03236	1235	1972	na	na	no pump	na	1972	na	na	Under Construction	na	na	na	na	na	na
HP-187	Nzega	Isanzu	Shila	1	Shila	UNKNOWN	Deep well	4.24523	33.09528	1237	2005	na	45	Indian Mk-II	45	2005	na	na	Functionning	Clear	Clear	28.9	6.7	0.4	25.6
HP-188	Nzega	Itobo	Chamwabo	15	Bulindi	na	Shallow well	4.20592	33.00867	1207	2002	na	6	Tanira	na	2002	na	24	Functionning	Clear	Fresh	27	6.2	0.4	10.2
HP-189	Nzega	Itobo	Chamwabo	15	Bunonga	na	Shallow well	4.21989	33.02316	1203	2002	na	7	Tanira	na	2002	na	24	Functionning	Clear	Fresh	27	6.2	0.4	12
HP-190	Nzega	Itobo	Chamwabo	15	Chamwabo	na	Shallow well	4.21064	32.99895	1203	2002	na	7	Tanira	na	2002	na	24	Functionning	Clear	Fresh	26.8	6.8	0.4	25
HP-191	Nzega	Itobo	Chamwabo	15	Igedeja	na	Shallow well	4.19675	33.01349	1203	2003	na	7	Tanira	na	2003	na	24	Functionning	Clear	Fresh	28.2	6.4	0.8	12
HP-192	Nzega	Itobo	Chamwabo	15	Isagenhe	na	Shallow well	4.20171	32.99558	1204	2003	na	na	Tanira	na	2003	na	24	Functionning	Clear	Fresh	27	6.2	0.4	12
HP-193	Nzega	Itobo	Chamwabo	15	Isagenhe	na	Shallow well	4.2019	32.98318	1197	2003	na	na	Tanira	na	2003	na	24	Functionning	Clear	Fresh	26.8	6.8	0.4	25
HP-194	Nzega	Itobo	Chamwabo	15	Isagenhe	na	Shallow well	4.1957	32.98791	1197	2003	na	na	Tanira	na	2003	na	24	Functionning	Clear	Fresh	27	6.2	0.4	12
HP-195	Nzega	Itobo	Chamwabo	15	Ishola	na	Shallow well	4.21669	33.01634	1204	2002	na	6.9	Tanira	na	2002	na	24	Functionning	Clear	Fresh	29.6	6.2	0.4	10
HP-196	Nzega	Itobo	Chamwabo	15	Kakola	na	Shallow well	4.22366	33.02946	1205	2003	na	7	Tanira	na	2003	na	24	Functionning	Clear	Fresh	26.8	6.8	0.4	25
HP-197	Nzega	Itobo	Chamwabo	15	Kakola	na	Shallow well	4.23536	33.02599	1215	2003	na	6	Tanira	na	2003	na	24	Functionning	Clear	Fresh	27.1	7	1.74	250
HP-198	Nzega	Itobo	Chamwabo	15	Mwakabata	na	Shallow well	4.2068	32.99785	1204	2002	na	na	Tanira	na	2002	na	24	Functionning	Clear	Fresh	27.1	7	1.98	250
HP-199	Nzega	Itobo	Chamwabo	15	Mwakabata	na	Shallow well	4.19344	32.99695	1198	2002	na	na	Tanira	na	2002	na	24	Functionning	Clear	Fresh	29.6	6.2	0.4	10.4
HP-200	Nzega	Itobo	Chamwabo	15	Sundwi	na	Shallow well	4.20358	33.02055	1208	2003	na	8	Tanira	na	2003	na	24	Functionning	Clear	Fresh	28.4	5.9	0.4	92

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HP-201	Nzega	Itobo	Chamwabo	15	Sundwi	na	Shallow well	4.20323	33.0309	1208	2002	na	7	Tanira	na	2002	na	24	Functionning	Clear	Fresh	28.9	6.8	0.4	11.1
HP-202	Nzega	Itobo	Chamwabo	15	Sundwi	na	Shallow well	4.2132	33.03016	1203	2003	na	7.2	Tanira	na	2003	na	24	Functionning	Clear	Fresh	28.8	6.1	0.4	10.6
HP-203	Nzega	Itobo	Itobo	9	Mankwi	na	Shallow well	4.16652	33.01103	1152	2003	na	6.8	Tanira	na	2003	na	24	Functionning	na	na	na	na	na	na
HP-204	Nzega	Itobo	Itobo	9	Mankwi	na	Shallow well	4.17078	32.98339	1192	2003	na	6.9	Tanira	na	2003	na	24	Functionning	na	na	na	na	na	na
HP-205	Nzega	Itobo	Itobo	9	Mankwi	na	Shallow well	4.16296	33.01437	1190	2003	na	10	Tanira	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-206	Nzega	Itobo	Itobo	9	Nyasuli	na	Shallow well	4.17673	33.03605	1184	2003	na	6	Tanira	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-207	Nzega	Itobo	Itobo	9	Nzegampya	na	Shallow well	4.16099	33.01861	1188	2002	na	18	no pump	na	2002	na	na	Pump Removed	na	na	na	na	na	na
HP-208	Nzega	Itobo	Itobo	9	Nzegampya	na	Shallow well	4.16485	33.02494	1190	2003	na	7	no pump	na	2003	na	na	Pump Removed	Clear	Fresh	27.8	6	0.8	10.9
HP-209	Nzega	Itobo	Itobo	9	Utusini	na	Shallow well	4.1728	33.02509	1183	2005	na	7	no pump	na	2005	na	na	Pump Removed	na	na	na	na	na	na
HP-210	Nzega	Itobo	Itobo	9	Utwale	na	Shallow well	4.16968	33.00498	1195	2003	na	7.2	Tanira	na	2003	na	na	Functionning	Clear	Fresh	29.6	6.2	0.4	10
HP-211	Nzega	Itobo	Itobo	9	Uyombo	na	Shallow well	4.1905	33.02663	1196	2003	na	7	Tanira	na	2003	na	24	Functionning	Clear	Fresh	29.6	6.2	0.4	10
HP-212	Nzega	Itobo	Lakuyi	2	Isalalo	na	Shallow well	4.13818	33.02661	1189	2001	na	6	Tanira	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-213	Nzega	Itobo	Lakuyi	2	Isalalo	na	Shallow well	4.13252	33.02197	1185	2001	na	7	Tanira	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-214	Nzega	Itilo	Itilo	2	Itilo Kati	UNKNOWN	Shallow well	4.26463	33.17662	1248	2004	na	6	no pump	6	2004	na	na	Pump Removed	Clear	Clear	23.7	6.2	0.4	12.8
HP-215	Nzega	Itilo	Itilo	2	Nhonge Mashariki	UNKNOWN	Shallow well	4.25393	33.18471	1250	2008	na	7	Tanira	7	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-216	Nzega	Itilo	Iyombo	1	Iyombo Kati	UNKNOWN	Shallow well	4.29699	33.12151	1247	2005	na	7	no pump	7	2005	na	na	Pump Removed	na	na	na	na	na	na
HP-217	Nzega	Itilo	Silimuka	5	Kanyenye	UNKNOWN	Shallow well	4.27323	33.2227	1231	2008	na	na	Tanira	7	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-218	Nzega	Itilo	Silimuka	5	Kashishi	UNKNOWN	Shallow well	4.23442	33.21836	1192	1980	na	na	no pump	na	1980	na	na	Under Construction	na	na	na	na	na	na
HP-219	Nzega	Itilo	Silimuka	5	Shang'Ongo	UNKNOWN	Shallow well	4.24568	33.22066	1207	2009	na	na	Tanira	6	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-220	Nzega	Itilo	Silimuka	5	Silimuka	UNKNOWN	Shallow well	4.24321	33.20407	1209	1987	na	na	Tanira	4	1987	na	na	Unfunctionning	na	na	na	na	na	na
HP-221	Nzega	Itilo	Silimuka	5	Wikiigwa	UNKNOWN	Shallow well	4.25695	33.19369	1238	2009	na	6	Tanira	6	2009	na	na	Functionning	Clear	Clear	24.1	6.3	0.4	12.2
HP-222	Nzega	Kahama Nhalanga	Iditima	5	Iditima	na	Shallow well	4.20532	32.75423	1202	2009	na	6	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-223	Nzega	Kahama Nhalanga	Iditima	5	Iditima	na	Shallow well	4.19423	32.75948	1198	2009	na	7	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-224	Nzega	Kahama Nhalanga	Iditima	5	Kalagwa	na	Shallow well	4.17093	32.72668	1229	2009	na	4.9	Tanira	na	2009	na	na	Functionning	clear	Fresh	28.3	7.2	0.4	44
HP-225	Nzega	Kahama Nhalanga	Iditima	5	Mbulige	na	Shallow well	4.21483	32.74875	1194	2009	na	7	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-226	Nzega	Kahama Nhalanga	Iditima	5	Mtungo	na	Shallow well	4.22188	32.75885	1189	2009	na	6.4	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-227	Nzega	Kahama Nhalanga	Kahama Nhalanga	6	Kahama Nhalanga	na	Shallow well	4.17244	32.78735	1205	2007	na	7	ST	na	2007	na	na	Stolen	na	na	na	na	na	na
HP-228	Nzega	Kahama Nhalanga	Kahama Nhalanga	6	Kahama Nhalanga	na	Shallow well	4.172	32.78751	1207	2009	na	7	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-229	Nzega	Kahama Nhalanga	Kahama Nhalanga	6	Kahama Nhalanga	na	Shallow well	4.17959	32.79211	1200	2000	na	6	Tanira	na	2000	na	na	Under Construction	na	na	na	na	na	na
HP-230	Nzega	Kahama Nhalanga	Kahama Nhalanga	6	Kahama Nhalanga	na	Shallow well	4.18169	32.7925	1199	2009	na	7	Tanira	na	2009	na	na	Functionning	clear	Fresh	28.7	6.3	0.4	98
HP-231	Nzega	Kahama Nhalanga	Kahama Nhalanga	6	Mwashikimai	na	Shallow well	4.19335	32.78771	1201	2007	na	7	Tanira	na	2007	na	na	Unfunctionning	na	na	na	na	na	na
HP-232	Nzega	Kahama Nhalanga	Kahama Nhalanga	6	Ndunya	na	Shallow well	4.16969	32.76753	1212	2009	na	6	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-233	Nzega	Kahama Nhalanga	Kilino	4	Busenge	na	Shallow well	4.19551	32.80669	1187	2009	na	7.4	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-234	Nzega	Kahama Nhalanga	Kilino	4	Igulu 'A'	na	Shallow well	4.20452	32.84763	1192	2009	na	7.1	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-235	Nzega	Kahama Nhalanga	Kilino	4	Kilino	na	Shallow well	4.18575	32.81593	1199	2002	na	6.2	Tanira	na	2002	na	24	Functionning	na	na	na	na	na	na
HP-236	Nzega	Kahama Nhalanga	Kilino	4	Kilino	na	Shallow well	4.18685	32.82936	1189	1980	na	6.4	no pump	na	1980	na	na	Pump Removed	na	na	na	na	na	na
HP-237	Nzega	Kahama Nhalanga	Nhabala	6	Kakoma	na	Shallow well	4.14506	32.67081	1225	2009	na	8	Tanira	8	2009	na	na	Functionning	clear	Fresh	26.9	6.4	0.4	92
HP-238	Nzega	Kahama Nhalanga	Nhabala	6	Mlimani	na	Shallow well	4.15919	32.67208	1211	2009	na	6.9	Tanira	7	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-239	Nzega	Kahama Nhalanga	Nhabala	6	Mwamakumbi 'A'	na	Shallow well	4.12137	32.70629	1207	2009	na	4	Tanira	7	2009	na	na	Under Construction	na	na	na	na	na	na
HP-240	Nzega	Kahama Nhalanga	Nhabala	6	Mwamakumbi 'B'	na	Shallow well	4.13766	32.72451	1222	2009	na	7	Tanira	7	2009	na	na	Functionning	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-241	Nzega	Kahama Nhalanga	Nhabala	6	Nehya	na	Shallow well	4.09957	32.68055	1202	2009	na	7	Tanira	7	2009	na	na	Under Construction	na	na	na	na	na	na
HP-242	Nzega	Kahama Nhalanga	Nhabala	6	Nhabala	na	Shallow well	4.13915	32.69303	1206	2004	na	6	Tanira	6	2004	na	na	Unfunctionning	na	na	na	na	na	na
HP-243	Nzega	Karitu	Bulunde	7	Bulunde	na	Shallow well	4.30531	32.97432	1237	1960	na	7	no pump	na	1980	na	na	Pump Removed	na	na	na	na	na	na
HP-244	Nzega	Karitu	Bulunde	7	Bulunde	na	Shallow well	4.30714	32.97554	1235	2009	na	6.9	Tanira	na	2009	na	na	Functionning	Milky	Fresh	27.8	6.3	0.4	63
HP-245	Nzega	Karitu	Bulunde	7	Isanagongo	na	Shallow well	4.30649	32.9876	1249	1980	na	6.1	no pump	na	na	na	24	Pump Removed	na	na	na	na	na	na
HP-246	Nzega	Karitu	Bulunde	7	Isanagongo	na	Shallow well	4.30204	32.98613	1247	2001	na	na	Tanira	na	2001	na	24	Unfunctionning	na	na	na	na	na	na
HP-247	Nzega	Karitu	Bulunde	7	Isanagongo	na	Shallow well	4.30039	32.98186	1245	1980	na	5	Tanira	na	1980	na	24	Unfunctionning	na	na	na	na	na	na
HP-248	Nzega	Karitu	Bulunde	7	Isanagongo	na	Shallow well	4.30328	32.97649	1242	1999	na	6.5	Tanira	na	1999	na	24	Unfunctionning	na	na	na	na	na	na
HP-249	Nzega	Karitu	Bulunde	7	Kalemela	na	Shallow well	4.33657	32.97318	1229	2009	na	7	Tanira	na	2009	na	24	Functionning	Clear	Fresh	26	6.1	0.4	12
HP-250	Nzega	Karitu	Gulumbai	2	Ugembe 1	na	Shallow well	4.25673	32.96551	1208	2009	na	7	Tanira	na	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-251	Nzega	Karitu	Gulumbai	2	Ugembe 1	na	Shallow well	4.26883	32.96832	1245	2007	na	6	Tanira	4	2007	na	24	Functionning	Clear	Clear	27.8	6.4	0.4	11.2
HP-252	Nzega	Karitu	Idubula	9	Bulambo	na	Shallow well	4.24123	33.00037	1217	2009	na	7	Tanira	7	2009	na	24	Functionning	Clear	Clear	27.2	5.9	0.4	10.2
HP-253	Nzega	Karitu	Idubula	9	Idanda	na	Shallow well	4.24108	32.99078	1208	2000	na	na	Tanira	na	2000	na	24	Functionning	Clear	Clear	29.6	6.2	0.4	10
HP-254	Nzega	Karitu	Idubula	9	Idubula	na	Shallow well	4.24939	33.01539	1231	2003	na	6	Tanira	6	2003	na	24	Unfunctionning	na	na	na	na	na	na
HP-255	Nzega	Karitu	Idubula	9	Igonda Matanga	na	Shallow well	4.23583	32.99641	1214	2003	na	na	Tanira	na	2003	na	24	Unfunctionning	na	na	na	na	na	na
HP-256	Nzega	Karitu	Idubula	9	Igonda Matanga	na	Shallow well	4.22577	32.99947	1208	2001	na	na	Tanira	na	2001	na	24	Unfunctionning	na	na	na	na	na	na
HP-257	Nzega	Karitu	Idubula	9	Igonda Matanga	na	Shallow well	4.23459	32.99899	1212	2003	na	na	Tanira	na	2003	na	24	Unfunctionning	Clear	Clear	29.7	5.8	0.4	10.8
HP-258	Nzega	Karitu	Idubula	9	Ipalilo	na	Shallow well	4.22935	32.97429	1204	2001	na	6	Tanira	6	2001	na	24	Functionning	Clear	Clear	27.8	5.9	0.4	10.8
HP-259	Nzega	Karitu	Idubula	9	Kindagili	na	Shallow well	4.23118	32.99081	1205	2003	na	na	Tanira	na	2003	na	24	Functionning	Clear	Clear	29.7	5.8	0.4	10.8
HP-260	Nzega	Karitu	Idubula	9	Manigilo	na	Shallow well	4.24394	33.01224	1224	2009	na	5	Tanira	5	2009	na	24	Functionning	Clear	Clear	27.3	5.8	0.4	10.4
HP-261	Nzega	Karitu	Itunda	12	Itunda 'A'	na	Shallow well	4.26255	32.98642	1222	2000	na	6	Tanira	6	2000	na	24	Functionning	Milky	Clear	27.3	6.4	0.4	10.2
HP-262	Nzega	Karitu	Itunda	12	Itunda 'A'	na	Shallow well	4.27183	32.98116	1242	2008	na	7	Tanira	7	2008	na	24	Functionning	Clear	Clear	27.5	6.3	0.4	10.8
HP-263	Nzega	Karitu	Itunda	12	Itunda 'A'	na	Shallow well	4.26609	32.98201	1234	2009	na	5	Tanira	5	2009	na	24	Functionning	Milky	Clear	27.4	5.9	0.4	10.4
HP-264	Nzega	Karitu	Itunda	12	Itunda 'A'	na	Shallow well	4.26506	32.98305	1232	2008	na	7	Tanira	7	2008	na	24	Functionning	Milky	Clear	27.8	6	0.8	10.9
HP-265	Nzega	Karitu	Itunda	12	Itunda 'A'	na	Shallow well	4.2622	32.983	1227	2008	na	6	Tanira	6	2008	na	24	Unfunctionning	na	na	na	na	na	na
HP-266	Nzega	Karitu	Itunda	12	Itunda 'A'	na	Shallow well	4.26186	32.97799	1222	2001	na	6	Tanira	na	2001	na	24	Functionning	Milky	Clear	27.3	6.4	0.4	10.4
HP-267	Nzega	Karitu	Itunda	12	Itunda 'A'	na	Shallow well	4.28009	32.97488	1242	2000	na	6	Tanira	na	2000	na	24	Functionning	Clear	Clear	27.9	5.9	0.4	10.9
HP-268	Nzega	Karitu	Itunda	12	Itunda 'A'	na	Shallow well	4.29286	32.97483	1249	2000	na	6.6	Tanira	na	2000	na	24	Functionning	Clear	Clear	26	6.8	0.4	11.5
HP-269	Nzega	Karitu	Itunda	12	Itunda 'B'	na	Shallow well	4.27591	32.98706	1240	2001	na	7	Tanira	na	2001	na	24	Functionning	Clear	Clear	26.9	6.4	0.4	10.1
HP-270	Nzega	Karitu	Itunda	12	Itunda 'B'	na	Shallow well	4.28942	32.98138	1252	2001	na	6.5	Tanira	na	2001	na	24	Functionning	Clear	Clear	27	6.5	0.4	12
HP-271	Nzega	Karitu	Itunda	12	Lubisu	na	Shallow well	4.27214	33.00332	1233	2005	na	7	Tanira	na	2005	na	24	Functionning	Clear	Clear	27.8	5.2	0.4	12.2
HP-272	Nzega	Karitu	Itunda	12	Lubisu	na	Shallow well	4.26362	33.00043	1240	2005	na	6	Tanira	na	2005	na	24	Functionning	Milky	Clear	27.9	6.3	0.4	10.9
HP-273	Nzega	Kasela	Kasela	15	Gangamala	na	Shallow well	4.08731	32.98207	1150	2001	na	8	Tanira	na	2001	na	na	Functionning	Clear	Fresh	27.1	6.1	ND	19
HP-274	Nzega	Kasela	Kasela	15	Idubula	na	Shallow well	4.11424	33.0063	1180	2001	na	7	Tanira	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-275	Nzega	Kasela	Kasela	15	Idubula	na	Shallow well	4.1049	33.0009	1171	2001	na	7.2	Tanira	na	2001	na	24	Functionning	Clear	Fresh	27.92	6.1	ND	11
HP-276	Nzega	Kasela	Kasela	15	Idubula	na	Shallow well	4.10775	33.01673	1166	2001	na	7.6	Tanira	na	2001	na	na	Stolen	na	na	na	na	na	na
HP-277	Nzega	Kasela	Kasela	15	Izengwa	na	Shallow well	4.07725	32.99339	1152	2001	na	8	Tanira	na	2001	na	na	Stolen	na	na	na	na	na	na
HP-278	Nzega	Kasela	Kasela	15	Kalemela	na	Shallow well	4.09219	32.97619	1155	2001	na	7	Tanira	na	2001	na	na	Stolen	na	na	na	na	na	na
HP-279	Nzega	Kasela	Kasela	15	Kalemela	na	Shallow well	4.09892	32.97381	1159	2001	na	6	Tanira	na	2001	na	na	Stolen	na	na	na	na	na	na
HP-280	Nzega	Kasela	Kasela	15	Kalemela	na	Shallow well	4.09548	32.98019	1155	2001	na	4.9	Tanira	na	2001	na	na	Stolen	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-281	Nzega	Kasela	Kasela	15	Kasela	na	Shallow well	4.09584	33.0126	1166	2004	na	7.8	Tanira	na	2004	na	24	Functionning	Clear	Fresh	27.8	6	ND	9.9
HP-282	Nzega	Kasela	Kasela	15	Kasela	na	Shallow well	4.09535	33.00585	1172	2004	na	8	Tanira	na	2004	na	na	Unfunctionning	na	na	na	na	na	na
HP-283	Nzega	Kasela	Kasela	15	Kasela	na	Shallow well	4.09529	33.00507	1171	1984	na	na	no pump	na	1984	na	na	Pump Removed	na	na	na	na	na	na
HP-284	Nzega	Kasela	Kasela	15	Kasela	na	Shallow well	4.09153	33.00798	1165	2001	na	7	Tanira	na	2001	na	na	Functionning	Clear	Fresh	27.6	6	ND	18
HP-285	Nzega	Kasela	Kasela	15	Njuka	na	Shallow well	4.07674	32.99312	1151	2001	na	9.1	Tanira	na	2001	na	na	Functionning	Clear	Fresh	27.9	6.4	ND	26
HP-286	Nzega	Kasela	Kasela	15	Njuka	na	Shallow well	4.0917	32.99449	1158	2003	na	11	Tanira	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-287	Nzega	Kasela	Kasela	15	Njuka	na	Shallow well	4.10024	32.98744	1160	2001	na	7	Tanira	na	2001	na	na	Stolen	na	na	na	na	na	na
HP-288	Nzega	Kasela	Lububu	5	Igagati	na	Shallow well	4.10487	32.97398	1171	2001	na	6	Tanira	na	2001	na	24	Unfunctionning	na	na	na	na	na	na
HP-289	Nzega	Kasela	Lububu	5	Igagati	na	Shallow well	4.1124	32.98394	1179	2001	na	6	Tanira	na	2001	na	24	Functionning	Clear	Fresh	27	6.1	0.4	79
HP-290	Nzega	Kasela	Lububu	5	Lububu	na	Shallow well	4.12714	32.99086	1193	2001	na	6	Tanira	na	2001	na	24	Unfunctionning	na	na	na	na	na	na
HP-291	Nzega	Kasela	Lububu	5	Lububu	na	Shallow well	4.116	32.98988	1187	2001	na	7	Tanira	na	2001	na	24	Stolen	na	na	na	na	na	na
HP-292	Nzega	Kasela	Lububu	5	Lububu	na	Shallow well	4.11864	32.98198	1188	2001	na	6	Tanira	na	2001	na	24	Functionning	Clear	Fresh	28.2	6.5	0.4	49
HP-293	Nzega	Kasela	Nindo	2	Nindo	na	Shallow well	4.04765	33.01204	1136	2003	na	6	Tanira	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-294	Nzega	Kasela	Nindo	2	Sumbu	na	Shallow well	4.07587	33.00801	1159	2004	na	6	Tanira	na	2004	na	24	Functionning	Milky	Fresh	27.9	5.93	ND	10
HP-295	Nzega	Kasela	Senge	1	Udundya	na	Shallow well	4.06457	32.9772	1143	na	na	7.4	Tanira	na	na	na	na	Functionning	Milky	Fresh	27.8	5.6	ND	26.4
HP-296	Nzega	Kasela	Ududu	17	Hangaga	UNKNOWN	Shallow well	4.16551	32.97508	1200	2003	na	8	Tanira	na	2003	na	24	Functionning	Clear	Fresh	27	6	0.4	26
HP-297	Nzega	Kasela	Ududu	17	Hangaga	UNKNOWN	Shallow well	4.16853	32.9709	1197	2003	na	10	Tanira	na	2003	na	24	Functionning	Clear	Fresh	27.1	6.1	ND	15
HP-298	Nzega	Kasela	Ududu	17	Majengo	UNKNOWN	Shallow well	4.17217	32.95402	1195	2003	na	6	Tanira	na	2003	na	24	Functionning	Milky	Clear	27.2	6.3	ND	12
HP-299	Nzega	Kasela	Ududu	17	Majengo	UNKNOWN	Shallow well	4.18056	32.95701	1195	2003	na	4	Tanira	na	2003	na	24	Functionning	na	na	na	na	na	na
HP-300	Nzega	Kasela	Ududu	17	Majengo	UNKNOWN	Shallow well	4.17812	32.96589	1196	2000	na	6	Tanira	na	2000	na	24	Functionning	Clear	Fresh	27	5.9	0.4	29
HP-301	Nzega	Kasela	Ududu	17	Nguwa	UNKNOWN	Shallow well	4.13934	32.9812	1194	2003	na	6	Tanira	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-302	Nzega	Kasela	Ududu	17	Nguwa	UNKNOWN	Shallow well	4.13699	32.97527	1199	2003	na	7	Tanira	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-303	Nzega	Kasela	Ududu	17	Nguwa	UNKNOWN	Shallow well	4.14337	32.96895	1206	2003	na	10	Tanira	na	2003	na	na	Functionning	Clear	Fresh	27	6.9	ND	12
HP-304	Nzega	Kasela	Ududu	17	Ntungulu	UNKNOWN	Shallow well	4.13512	32.96515	1199	2003	na	6.9	Tanira	na	2003	na	24	Functionning	Clear	Salty	27.9	5.1	1.42	299.1
HP-305	Nzega	Kasela	Ududu	17	Ntungulu	UNKNOWN	Shallow well	4.13211	32.97534	1192	2000	na	7.4	Tanira	na	2000	na	2008	Stolen	na	na	na	na	na	na
HP-306	Nzega	Kasela	Ududu	17	Ntungulu	UNKNOWN	Shallow well	4.12147	32.96962	1188	2003	na	8.1	Tanira	na	2003	na	24	Functionning	Clear	Fresh	26.91	6.9	ND	29.8
HP-307	Nzega	Kasela	Ududu	17	Nyashimba	UNKNOWN	Shallow well	4.12896	32.98766	1234	2003	na	na	Tanira	na	2003	na	24	Functionning	Clear	Salty	27.9	5	1.53	219
HP-308	Nzega	Kasela	Ududu	17	Nyashimba	UNKNOWN	Shallow well	4.1367	32.9843	1189	2003	na	na	Tanira	na	2003	na	24	Functionning	Clear	Salty	27.8	5	1.49	292
HP-309	Nzega	Kasela	Ududu	17	Sabage	UNKNOWN	Shallow well	4.14804	32.99528	1204	2000	na	7	Tanira	na	2000	na	24	Functionning	Clear	Fresh	27.1	5.4	0.4	28
HP-310	Nzega	Kasela	Ududu	17	Ududu	UNKNOWN	Shallow well	4.14732	32.96309	1208	2000	na	6.4	Tanira	na	2000	na	2008	Unfunctionning	na	na	na	na	na	na
HP-311	Nzega	Kasela	Ududu	17	Ududu	UNKNOWN	Shallow well	4.15866	32.96402	1209	2003	na	4.2	Tanira	na	2003	na	24	Functionning	Clear	Fresh	26.9	6.8	0.4	41
HP-312	Nzega	Kasela	Ududu	17	Ududu	UNKNOWN	Shallow well	4.15016	32.96825	1208	2003	na	7	Tanira	na	2003	na	na	Stolen	na	na	na	na	na	na
HP-313	Nzega	Lusu	Bujulu	4	Bujulu	UNKNOWN	Deep well	4.07647	33.23369	1141	2005	na	60	Afridev	na	2005	na	na	Functionning	Clear	Salty	27.2	5.9	0.4	40
HP-314	Nzega	Lusu	Bujulu	4	Isagenhe	UNKNOWN	Deep well	4.05136	33.25092	1134	2005	na	75	Afridev	na	2005	na	na	Functionning	Clear	Clear	26.8	6.1	0.4	6.3
HP-315	Nzega	Lusu	Bujulu	4	Mtundu	UNKNOWN	Deep well	4.033	33.23226	1119	2005	na	50	Afridev	na	2005	na	na	Functionning	Clear	Clear	27.1	6.8	0.8	36
HP-316	Nzega	Lusu	Bujulu	4	Mwamakoja	UNKNOWN	Deep well	4.05677	33.26518	1145	2005	na	100	Afridev	na	2005	na	na	Functionning	Clear	Clear	27.2	5.7	0.4	7.2
HP-317	Nzega	Lusu	Ifumba	5	Ifumba	UNKNOWN	Unknown	4.02514	33.23479	1121	2003	na	na	Afridev	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-318	Nzega	Lusu	Ifumba	5	Ifumba	UNKNOWN	Unknown	3.99056	33.23083	1099	2005	na	na	Afridev	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-319	Nzega	Lusu	Ifumba	5	Ifumba	UNKNOWN	Unknown	4.0091	33.23609	1112	2005	na	85	Afridev	na	na	na	na	Functionning	Clear	Clear	26.8	6.2	0.8	18
HP-320	Nzega	Lusu	Ifumba	5	Ifumba	UNKNOWN	Unknown	3.99234	33.25681	1103	2005	na	81	Afridev	na	2005	na	na	Functionning	Clear	Clear	26.5	6.3	0.4	12

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-321	Nzega	Lusu	Ifumba	5	Tindempya	UNKNOWN	Unknown	3.99764	33.24639	1109	2005	na	80	Afridev	na	na	na	na	Functionning	Clear	Salty	26.9	6.7	0.4	36.8
HP-322	Nzega	Lusu	Isanga	2	Iponyamadumu	UNKNOWN	Shallow well	4.05403	33.19281	1131	2005	na	58	Afridev	na	2005	na	na	Unfunctionning	na	na	na	na	na	na
HP-323	Nzega	Lusu	Isanga	2	Mwatandai	UNKNOWN	Shallow well	4.0497	33.21017	1121	2005	na	72	Afridev	na	2005	na	na	Functionning	Clear	Salty	27.1	7.6	0.8	162
HP-324	Nzega	Lusu	Mwakabasa	1	Mwakabasa	UNKNOWN	Shallow well	3.91503	33.29363	1076	2005	na	na	Afridev	na	2005	na	na	Functionning	Mud	Salty	27.9	7.2	0.8	122
HP-325	Nzega	Lusu	Mwaluzwilo	9	Bugesela	UNKNOWN	Shallow well	3.98	33.23441	1103	2003	na	na	Tanira	na	na	na	24	Unfunctionning	na	na	na	na	na	na
HP-326	Nzega	Lusu	Mwaluzwilo	9	Bugesela	UNKNOWN	Shallow well	3.98804	33.23061	1103	2003	na	na	Tanira	na	na	na	24	Unfunctionning	na	na	na	na	na	na
HP-327	Nzega	Lusu	Mwaluzwilo	9	Bugesela	UNKNOWN	Shallow well	3.99215	33.23056	1102	2003	na	na	Tanira	na	na	na	24	Unfunctionning	na	na	na	na	na	na
HP-328	Nzega	Lusu	Mwaluzwilo	9	Bujinja	UNKNOWN	Deep well	4.0156	33.21824	1124	2005	na	na	Tanira	na	2005	na	24	Functionning	Clear	Salty	26.2	7.3	1.22	176.4
HP-329	Nzega	Lusu	Mwaluzwilo	9	Bujinja	UNKNOWN	Deep well	4.07496	33.23705	1141	2005	na	na	Tanira	na	2005	na	24	Functionning	Clear	Salty	26.1	6.8	2.01	236.4
HP-330	Nzega	Lusu	Mwaluzwilo	9	Bujinja	UNKNOWN	Deep well	4.01515	33.20607	1135	2005	na	na	Afridev	na	2005	na	na	Unfunctionning	na	na	na	na	na	na
HP-331	Nzega	Lusu	Mwaluzwilo	9	Mwaluzwilo	UNKNOWN	Shallow well	4.02301	33.21741	1122	1996	na	na	Indian Mk-II	na	1997	na	24	Functionning	Clear	Salty	27.8	6.9	0.8	50
HP-332	Nzega	Lusu	Mwaluzwilo	9	Mwaluzwilo	UNKNOWN	Shallow well	4.0289	33.21541	1131	2005	na	na	Afridev	na	2005	na	24	Functionning	Clear	Salty	26.6	6.1	0.4	41.4
HP-333	Nzega	Lusu	Mwaluzwilo	9	Mwamawe	UNKNOWN	Shallow well	4.00023	33.21096	1124	2005	na	na	Afridev	na	2005	na	24	Functionning	Clear	Salty	27.9	7.6	3.91	126
HP-334	Nzega	Lusu	Mwasala	5	Matinje	UNKNOWN	Deep well	3.99478	33.29709	1104	2005	na	67	Afridev	na	2005	na	na	Functionning	Clear	Salty	27.7	8.2	1.51	399.9
HP-335	Nzega	Lusu	Mwasala	5	Mwasala	UNKNOWN	Deep well	4.00048	33.31185	1106	2005	na	na	Afridev	na	2005	na	na	Unfunctionning	na	na	na	na	na	na
HP-336	Nzega	Lusu	Mwasala	5	Mwasala	UNKNOWN	Deep well	3.97884	33.32323	1095	2005	na	na	no pump	na	2005	na	na	Pump Removed	na	na	na	na	na	na
HP-337	Nzega	Lusu	Mwasala	5	Ng'Wandugwidako	UNKNOWN	Deep well	3.95752	33.30988	1086	2005	na	na	Tanira	na	1996	na	na	Unfunctionning	na	na	na	na	na	na
HP-338	Nzega	Lusu	Mwasala	5	Nhele	UNKNOWN	Deep well	4.02913	33.31923	1109	2005	na	na	Afridev	na	2005	na	na	Functionning	Clear	Salty	29.7	7.6	3.31	177.2
HP-339	Nzega	Magengati	Ilelamhina	1	Ilelamhina Juu	na	Shallow well	4.83145	33.0217	1274	2009	na	6	Tanira	na	2009	na	13	Functionning	clear	Fresh	27.8	6.7	0.4	47
HP-340	Nzega	Magengati	Inagana	4	Kigoma Road	na	Shallow well	4.78788	33.07522	1235	1980	na	7	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-341	Nzega	Magengati	Inagana	4	Mwanza Road	na	Shallow well	4.79153	33.11963	1224	1970	na	7	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-342	Nzega	Magengati	Inagana	4	Shinyanga Road	na	Shallow well	4.77722	33.09288	1223	2009	na	8	Tanira	na	2009	na	9	Functionning	clear	Fresh	28.5	7.5	0.4	63
HP-343	Nzega	Magengati	Inagana	4	Tabora Road	na	Shallow well	4.79799	33.08569	1253	1970	na	8	Shinyanga pump	na	1970	na	na	Unfunctionning	na	na	na	na	na	na
HP-344	Nzega	Magengati	Kaloleni	1	Kagera	na	Shallow well	4.81023	33.01512	1255	2009	na	4	Tanira	na	2009	na	14	Functionning	clear	Fresh	27	6.8	0.4	55
HP-345	Nzega	Magengati	Magengati	5	Chang'Ombe	na	Shallow well	4.81128	33.05738	1275	2009	na	8	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-346	Nzega	Magengati	Magengati	5	Kipendaroho	na	Shallow well	4.83164	33.05845	1266	2009	na	6	Tanira	na	2009	na	12	Functionning	clear	Fresh	28.7	6.5	0.4	43
HP-347	Nzega	Magengati	Magengati	5	Makazi	na	Shallow well	4.8152	33.06174	1285	1980	na	7	Shinyanga pump	na	na	na	na	Abandoned	na	na	na	na	na	na
HP-348	Nzega	Magengati	Magengati	5	Makazi	na	Shallow well	4.81477	33.06118	1283	1980	na	7	Shinyanga pump	na	na	na	na	Abandoned	na	na	na	na	na	na
HP-349	Nzega	Magengati	Magengati	5	Makazi	na	Shallow well	4.81411	33.06092	1283	1970	na	8	Shinyanga pump	na	na	na	na	Abandoned	na	na	na	na	na	na
HP-350	Nzega	Magengati	Usagali	1	Mumbani	na	Shallow well	4.78745	33.13737	1223	2007	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-351	Nzega	Mambali	Gulyambi	2	Gulyambi	na	Deep well	4.5274	32.77148	1193	2007	na	50	Afridev	na	2007	na	24	Functionning	Milky	Salty	27.1	6	0.8	56.9
HP-352	Nzega	Mambali	Gulyambi	2	Ngalamila	na	Deep well	4.55976	32.77967	1165	2007	na	39	Afridev	na	2007	na	24	Unfunctionning	na	na	na	na	na	na
HP-353	Nzega	Mambali	Kikonoka	9	Igalula	na	Deep well	4.56827	32.6692	1181	2007	na	52	Afridev	na	2007	na	24	Functionning	Clear	Clear	27	6.2	0.4	120
HP-354	Nzega	Mambali	Kikonoka	9	Igalula	na	Deep well	4.56294	32.66517	1179	2007	na	67	Afridev	na	2007	na	24	Functionning	Clear	Litle Salty	26.5	6.4	0.4	280
HP-355	Nzega	Mambali	Kikonoka	9	Kikonoka	na	Deep well	4.58585	32.69894	1159	2007	na	43	Afridev	na	2007	na	24	Unfunctionning	na	na	na	na	na	na
HP-356	Nzega	Mambali	Kikonoka	9	Kikonoka	na	Deep well	4.58605	32.7131	1165	2007	na	33	Afridev	na	2007	na	24	Functionning	Clear	No Salty	26	6	ND	70
HP-357	Nzega	Mambali	Kikonoka	9	Njucha	na	Deep well	4.54233	32.64468	1184	2007	na	50	Afridev	na	2007	na	24	Functionning	Milky	Litle Salty	26.8	6	0.4	250
HP-358	Nzega	Mambali	Kikonoka	9	Shitage	na	Deep well	4.61171	32.61565	1193	2007	na	35	Afridev	na	2007	na	24	Functionning	Milky	Litle Salty	26	6.2	0.8	450
HP-359	Nzega	Mambali	Kikonoka	9	Upilya	na	Deep well	4.6215	32.76272	1151	2008	na	41	Afridev	na	2008	na	24	Functionning	Milky	Salty	27.1	7	1.37	250
HP-360	Nzega	Mambali	Kikonoka	9	Usekenule	na	Deep well	4.55975	32.69972	1177	2007	na	61	Afridev	na	2007	na	24	Functionning	Clear	No Salty	26.8	6.9	ND	50

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-361	Nzega	Mambali	Kikonoka	9	Usekenule	na	Deep well	4.56695	32.69665	1170	2007	na	47	Afridev	na	2007	na	24	Functionning	Clear	Litle Salty	27	6.5	0.4	125
HP-362	Nzega	Mambali	Mambali	9	Isilyaza	na	Deep well	4.56846	32.74292	1175	2007	na	60	Afridev	na	2007	na	24	Functionning	Clear	Fresh	26	6	0.4	301
HP-363	Nzega	Mambali	Mambali	9	Kazima	na	Deep well	4.53282	32.73008	1203	2007	na	36.88	Afridev	na	2007	na	24	Functionning	Clear	Fresh	27.1	6.5	ND	250
HP-364	Nzega	Mambali	Mambali	9	Kibuli	na	Deep well	4.50918	32.68549	1202	2007	na	40	Afridev	na	2007	na	24	Functionning	Clear	No Salty	27.6	6.8	0.4	101
HP-365	Nzega	Mambali	Mambali	9	Mambali	na	Deep well	4.53759	32.68341	1216	2007	na	66	Afridev	na	2007	na	24	Unfunctionning	na	na	na	na	na	na
HP-366	Nzega	Mambali	Mambali	9	Mambali	na	Deep well	4.52678	32.68572	1209	2007	na	60	Afridev	na	2007	na	24	Functionning	Clear	No Salty	27	6	ND	98
HP-367	Nzega	Mambali	Mambali	9	Ngwatu	na	Deep well	4.50476	32.72773	1205	2007	na	78	Afridev	na	2007	na	24	Functionning	Clear	No Salty	26	6	ND	150
HP-368	Nzega	Mambali	Mambali	9	Ntanga	na	Deep well	4.49617	32.74475	1205	2007	na	46	Afridev	na	2007	na	24	Functionning	Clear	Fresh	27.6	7	0.4	150
HP-369	Nzega	Mambali	Mambali	9	Uasa	na	Deep well	4.51239	32.63809	1214	2007	na	43	Afridev	na	2007	na	24	Functionning	Clear	Salty litle	26.8	7	ND	40
HP-370	Nzega	Mambali	Mambali	9	Waja	na	Deep well	4.5475	32.71195	1196	2007	na	51	Afridev	na	2007	na	24	Functionning	Clear	Fresh	27	6.6	0.4	251
HP-371	Nzega	Mambali	Mbutu	11	Dumali	na	Deep well	4.36798	32.83153	1213	2008	na	49	Afridev	49	2008	na	24	Functionning	Clear	Fresh	27.2	6	0.4	240
HP-372	Nzega	Mambali	Mbutu	11	Idubanilo	na	Deep well	4.41503	32.8457	1204	2008	na	30	Afridev	na	2008	na	24	Functionning	Clear	No Salty	26.5	6.4	ND	165
HP-373	Nzega	Mambali	Mbutu	11	Isanja	na	Shallow well	4.41567	32.77787	1214	2007	na	na	Tanira	na	2007	na	24	Functionning	Clear	Fresh	27	6.2	ND	140
HP-374	Nzega	Mambali	Mbutu	11	Isanja	na	Deep well	4.41658	32.79456	1230	2008	na	na	Afridev	na	2008	na	24	Functionning	Clear	No Salty	27.1	6.5	0.4	290
HP-375	Nzega	Mambali	Mbutu	11	Kadoke	na	Shallow well	4.41129	32.81509	1228	2007	na	2.2	Tanira	na	2007	na	24	Functionning	Clear	No Salty	27	5.9	ND	17
HP-376	Nzega	Mambali	Mbutu	11	Kindagili	na	Deep well	4.38812	32.82766	1220	2007	na	55	Afridev	na	2007	na	24	Functionning	Clear	No Salty	26.9	7	0.4	21
HP-377	Nzega	Mambali	Mbutu	11	Mbutu Kati	na	Deep well	4.38187	32.78212	1208	2007	na	60	Afridev	60	2007	na	24	Functionning	Clear	No Salty	27.5	7.2	0.4	210
HP-378	Nzega	Mambali	Mbutu	11	Mbutu Kati	na	Shallow well	4.3819	32.78213	1207	1981	na	na	no pump	na	2007	na	na	Pump Removed	na	na	na	na	na	na
HP-379	Nzega	Mambali	Mbutu	11	Mbutu Kati	na	Shallow well	4.40247	32.78071	1213	1981	na	na	no pump	na	1981	na	na	Pump Removed	na	na	na	na	na	na
HP-380	Nzega	Mambali	Mbutu	11	Mbutu Kati	na	Deep well	4.40103	32.79138	1226	2007	na	na	Afridev	na	2007	na	na	Functionning	Clear	Salty	26.9	7	1.43	320.5
HP-381	Nzega	Mambali	Mbutu	11	Nasa	na	Deep well	4.37186	32.8076	1218	2008	na	61	Afridev	61	2008	na	24	Functionning	Clear	No Salty	27.4	6.8	ND	190
HP-382	Nzega	Mambali	Mwamalimu	1	Lugululwanzungu	na	Deep well	4.4969	32.82295	1182	2008	na	40	Afridev	na	2008	na	24	Functionning	Clear	Fresh	26.8	6.9	ND	16
HP-383	Nzega	Mambali	Mvino	3	Busaku	na	Deep well	4.46637	32.86909	1161	2008	na	50	Afridev	na	2008	na	24	Functionning	Clear	No Salty	27	6.8	ND	21
HP-384	Nzega	Mambali	Mvino	3	Mvino Magharibi	na	Deep well	4.44096	32.85975	1184	2008	na	50	Afridev	na	2008	na	24	Functionning	Clear	Litle Salty	27.8	6.8	0.8	45
HP-385	Nzega	Mambali	Mvino	3	Mvino Masharikl	na	Deep well	4.43422	32.86777	1201	2008	na	50	Afridev	na	2008	na	24	Functionning	Clear	Fresh	26.5	6.4	0.4	25
HP-386	Nzega	Mambali	Nkindu	4	Iboja	na	Deep well	4.46065	32.82528	1201	2007	na	37	Afridev	na	2007	na	24	Functionning	Clear	No Salty	26.8	6.8	0.4	25
HP-387	Nzega	Mambali	Nkindu	4	Iboja	na	Deep well	4.46236	32.82267	1194	2007	na	43	Afridev	na	2007	na	24	Functionning	Clear	Fresh	26	6.4	ND	124
HP-388	Nzega	Mambali	Nkindu	4	Maseki	na	Deep well	4.48309	32.81173	1200	2008	na	50	Afridev	na	2008	na	24	Functionning	Clear	Fresh	27.8	6	0.4	130
HP-389	Nzega	Mambali	Nkindu	4	Nkindu	na	Deep well	4.486	32.78711	1212	2008	na	40	Afridev	na	2008	na	24	Functionning	Clear	Fresh	27.4	7.1	0.4	168
HP-390	Nzega	Mambali	Shilago	5	Bakambwa	na	Deep well	4.44508	32.74767	1217	2007	na	48	Afridev	na	2007	na	24	Functionning	Clear	No Salty	27	6.6	ND	150
HP-391	Nzega	Mambali	Shilago	5	Igalu	na	Deep well	4.41725	32.74864	1210	2007	na	61	Afridev	na	2007	na	24	Functionning	Clear	No Salty	27.6	6.8	0.4	38
HP-392	Nzega	Mambali	Shilago	5	Kasomela	na	Deep well	4.4302	32.77894	1221	2007	na	40	Afridev	na	2007	na	24	Functionning	Clear	Fresh	27.8	6.2	ND	160
HP-393	Nzega	Mambali	Shilago	5	Shilago	na	Deep well	4.46065	32.76065	1223	2008	na	48	Afridev	na	2008	na	24	Functionning	Clear	No Salty	26.9	6.4	ND	115
HP-394	Nzega	Mambali	Shilago	5	Shilago	na	Deep well	4.43497	32.76075	1223	2007	na	72	Afridev	na	2007	na	24	Functionning	Clear	No Salty	26.1	6.8	0.4	40
HP-395	Nzega	Mbogwe	Mbogwe	7	Bududu	UNKNOWN	Shallow well	4.15483	33.26865	1190	2003	na	na	Tanira	na	2003	na	24	Unfunctionning	na	na	na	na	na	na
HP-396	Nzega	Mbogwe	Mbogwe	7	Kalangale	UNKNOWN	Shallow well	4.15883	33.24863	1187	2007	na	na	Tanira	na	2007	na	na	Unfunctionning	na	na	na	na	na	na
HP-397	Nzega	Mbogwe	Mbogwe	7	Mbogwe Kati	UNKNOWN	Shallow well	4.15327	33.26395	1188	2002	na	na	Tanira	na	2007	na	24	Functionning	Clear	Clear	29.6	6.6	0.4	52
HP-398	Nzega	Mbogwe	Mbogwe	7	Mbogwe Kusini	UNKNOWN	Shallow well	4.163	33.26389	1201	2003	na	na	Tanira	na	2003	na	24	Functionning	Clear	Clear	29.7	6.8	0.4	67
HP-399	Nzega	Mbogwe	Mbogwe	7	Mwakabilu	UNKNOWN	Shallow well	4.17821	33.25905	1203	2002	na	na	Tanira	na	2002	na	24	Functionning	Clear	Clear	28.2	6.7	0.4	66
HP-400	Nzega	Mbogwe	Mbogwe	7	Mwangongo	UNKNOWN	Deep well	4.13956	33.25614	1181	2007	na	na	Tanira	na	2007	na	na	Unfunctionning	na	na	na	na	na	na

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HP-401	Nzega	Mbogwe	Mbogwe	7	Mwanubiila	UNKNOWN	Deep well	4.14495	33.26333	1178	2005	na	na	Indian Mk-II	na	2005	na	24	Functionning	Clear	Salty	29.5	7.8	6.11	95
HP-402	Nzega	Mbogwe	Nhobola	3	Misana	UNKNOWN	Deep well	4.11265	33.28784	1171	2006	na	50	Afridev	na	2006	na	24	Unfunctionning	na	na	na	na	na	na
HP-403	Nzega	Mbogwe	Nhobola	3	Mwashina	UNKNOWN	Deep well	4.09664	33.24997	1143	2008	na	100	Indian Mk-II	na	2008	na	24	Functionning	Clear	Salty	28.4	7.7	1.59	165.9
HP-404	Nzega	Mbogwe	Nhobola	3	Nhobola	UNKNOWN	Shallow well	4.1071	33.26592	1153	2009	na	6	Afridev	na	2009	na	24	Under Construction	na	na	na	na	na	na
HP-405	Nzega	Mguwa	Idudumo	1	Makambini	UNKNOWN	Deep well	4.36862	33.36954	1197	2005	na	na	Afridev	na	2007	na	24	Functionning	Clear	Salty	28	6.7	0.8	70.6
HP-406	Nzega	Mguwa	Iduguta	6	Iduguta 'A'	UNKNOWN	Deep well	4.22142	33.34698	1196	1975	na	na	no pump	na	1975	na	24	Pump Removed	Clear	Salty	28.8	7.2	6.21	136.2
HP-407	Nzega	Mguwa	Iduguta	6	Iduguta 'A'	UNKNOWN	Deep well	4.21961	33.34908	1198	2005	na	na	Afridev	na	2005	na	24	Functionning	Clear	Salty	28.4	7.7	4.71	165.9
HP-408	Nzega	Mguwa	Iduguta	6	Iduguta 'B'	UNKNOWN	Shallow well	4.20865	33.33052	1217	2009	na	na	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-409	Nzega	Mguwa	Iduguta	6	Igelelo 'B'	UNKNOWN	Shallow well	4.22459	33.32315	1216	2009	na	6	no pump	na	na	na	24	Under Construction	na	na	na	na	na	na
HP-410	Nzega	Mguwa	Iduguta	6	Ukondamoyo 'A'	UNKNOWN	Shallow well	4.20085	33.31986	1215	2009	na	na	Tanira	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-411	Nzega	Mguwa	Iduguta	6	Ukondamoyo 'B'	UNKNOWN	Shallow well	4.20645	33.32458	1215	2009	na	na	no pump	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-412	Nzega	Mguwa	Kitangili	13	Budushi	UNKNOWN	Shallow well	4.21113	33.24922	1202	2008	na	7	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-413	Nzega	Mguwa	Kitangili	13	Budushi	UNKNOWN	Shallow well	4.21065	33.2424	1202	2008	na	7	Tanira	na	2008	na	na	Stolen	na	na	na	na	na	na
HP-414	Nzega	Mguwa	Kitangili	13	Budushi	UNKNOWN	Shallow well	4.21084	33.24387	1204	2008	na	na	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-415	Nzega	Mguwa	Kitangili	13	Budushi	UNKNOWN	Shallow well	4.21101	33.24337	1200	2008	na	na	Tanira	na	2008	na	na	Unfunctionning	Milky	Clear	28.2	6.8	0.4	10.2
HP-416	Nzega	Mguwa	Kitangili	13	Budushi	UNKNOWN	Shallow well	4.21637	33.24684	1203	2008	na	na	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-417	Nzega	Mguwa	Kitangili	13	Budushi	UNKNOWN	Shallow well	4.21801	33.24606	1204	2008	na	na	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-418	Nzega	Mguwa	Kitangili	13	Ipazi	UNKNOWN	Shallow well	4.20975	33.26771	1203	2008	na	18	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-419	Nzega	Mguwa	Kitangili	13	Ipazi	UNKNOWN	Shallow well	4.21022	33.25708	1195	2009	na	15	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-420	Nzega	Mguwa	Kitangili	13	Singisa	UNKNOWN	Shallow well	4.20344	33.24501	1195	2006	na	10	Tanira	na	2006	na	na	Unfunctionning	na	na	na	na	na	na
HP-421	Nzega	Mguwa	Kitangili	13	Ubada	UNKNOWN	Shallow well	4.22057	33.2483	1197	1984	na	6	no pump	na	1984	na	na	Pump Removed	na	na	na	na	na	na
HP-422	Nzega	Mguwa	Kitangili	13	Ubada	UNKNOWN	Shallow well	4.2252	33.25488	1215	2006	na	6	Tanira	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-423	Nzega	Mguwa	Kitangili	13	Wiba	UNKNOWN	Shallow well	4.19916	33.24029	1189	2008	na	12	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-424	Nzega	Mguwa	Kitangili	13	Wiba	UNKNOWN	Shallow well	4.20648	33.23264	1182	2008	na	na	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-425	Nzega	Mguwa	Kitengwe	1	Kitengwe	UNKNOWN	Shallow well	4.25967	33.26003	1224	na	na	7	no pump	na	na	na	24	Pump Removed	na	na	na	na	na	na
HP-426	Nzega	Mguwa	Mguwa	13	Isambalilo	UNKNOWN	Deep well	4.18172	33.31513	1205	2005	na	na	Indian Mk-II	na	2005	na	24	Functionning	Clear	Salty	28.5	7.2	3.91	54.3
HP-427	Nzega	Mguwa	Mguwa	13	Kachibijo	UNKNOWN	Shallow well	4.19888	33.28509	1216	2008	na	7	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-428	Nzega	Mguwa	Mguwa	13	Kachibijo	UNKNOWN	Shallow well	4.20131	33.2774	1209	2008	na	6	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-429	Nzega	Mguwa	Mguwa	13	Miguwa	UNKNOWN	Shallow well	4.20826	33.30499	1214	2009	na	6	Tanira	na	2009	na	24	Functionning	Milky	Clear	28.6	7.3	0.4	63
HP-430	Nzega	Mguwa	Mguwa	13	Ngong'Ho	UNKNOWN	Shallow well	4.20791	33.28542	1221	2008	na	6	Tanira	na	2008	na	na	Functionning	Clear	Clear	28.7	6.3	0.4	62
HP-431	Nzega	Mguwa	Mguwa	13	Ngong'Ho	UNKNOWN	Shallow well	4.20807	33.29054	1219	2009	na	6	Tanira	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-432	Nzega	Mguwa	Mguwa	13	Shaleng'Hwa	UNKNOWN	Shallow well	4.17713	33.29155	1197	2009	na	9	Tanira	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-433	Nzega	Mguwa	Mguwa	13	Shaleng'Hwa	UNKNOWN	Shallow well	4.17695	33.29133	1197	2008	na	6	Tanira	na	2008	na	na	Abandoned	na	na	na	na	na	na
HP-434	Nzega	Mguwa	Mguwa	13	Shaleng'Hwa	UNKNOWN	Shallow well	4.18026	33.2913	1201	2009	na	6	Tanira	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-435	Nzega	Mguwa	Mguwa	13	Shaleng'Hwa	UNKNOWN	Shallow well	4.18519	33.29049	1203	2009	na	8	Tanira	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-436	Nzega	Mguwa	Mguwa	13	Shaming'Wa	UNKNOWN	Shallow well	4.19393	33.29842	1212	2009	na	6	Tanira	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-437	Nzega	Mguwa	Mguwa	13	Shaming'Wa	UNKNOWN	Shallow well	4.19641	33.29869	1204	2008	na	6	Tanira	na	2008	na	na	Under Construction	na	na	na	na	na	na
HP-438	Nzega	Mguwa	Mguwa	13	Shanemba	UNKNOWN	Deep well	4.18657	33.29766	1200	1975	na	na	Afridev	na	1975	na	na	Abandoned	na	na	na	na	na	na
HP-439	Nzega	Mguwa	Mwanzoli	3	Isungangwanda	UNKNOWN	Shallow well	4.26172	33.27832	1227	2009	na	na	no pump	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-440	Nzega	Mguwa	Mwanzoli	3	Mongo	UNKNOWN	Deep well	4.27884	33.29209	1211	2009	na	na	no pump	na	na	na	na	Under Construction	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordidnates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-441	Nzega	Miguwa	Mwanzoli	3	Mwanzoli 'B'	UNKNOWN	Deep well	4.27549	33.2951	1211	2007	na	na	Afridev	na	2007	na	na	Unfunctionning	na	na	na	na	na	na
HP-442	Nzega	Milambo Itobo	Kakulungu	1	Mabondeni	na	Shallow well	4.78139	32.97937	1212	1976	na	7	no pump	na	1976	na	12	Pump Removed	na	na	na	na	na	na
HP-443	Nzega	Milambo Itobo	Magukula	1	Ilomelo	na	Shallow well	4.7699	33.01109	1253	1980	na	8	SWN-80	na	1980	na	na	Unfunctionning	na	na	na	na	na	na
HP-444	Nzega	Milambo Itobo	Malole	1	Malole 'A'	na	Shallow well	4.77363	32.92571	1199	1976	na	6	no pump	na	1976	na	12	Pump Removed	na	na	na	na	na	na
HP-445	Nzega	Milambo Itobo	Milamboitobo	1	Milambo Itobo 'B'	na	Shallow well	4.78168	32.89299	1198	1980	na	5	no pump	na	1980	na	12	Pump Removed	na	na	na	na	na	na
HP-446	Nzega	Mizibaziba	Ibushi	1	Ibushi Ccm	na	Deep well	4.57812	33.26172	1269	2006	na	57	Indian Mk-II	na	2006	na	na	Functionning	na	na	na	na	na	na
HP-447	Nzega	Mizibaziba	Kipungulu	1	Kisangilizi	na	Deep well	4.51759	33.36282	1234	2006	na	62	Indian Mk-II	na	2006	na	na	Functionning	milky	Fresh	26.8	6.5	0.8	83
HP-448	Nzega	Mizibaziba	Luzuko	1	Luzuko 'A'	na	Deep well	4.51895	33.23676	1256	2008	na	8	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-449	Nzega	Mizibaziba	Mzibaziba	1	Igembesabo	na	Deep well	4.54091	33.30775	1259	2008	na	7	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-450	Nzega	Mogwa	Luhumbo	2	Gengetisa	na	Shallow well	4.39351	32.88946	1195	2009	na	6	no pump	6	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-451	Nzega	Mogwa	Luhumbo	2	Ilambalyamabu	na	Shallow well	4.39453	32.85177	1213	2009	na	6	no pump	6	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-452	Nzega	Mogwa	Mogwa	2	Ifuso	na	Shallow well	4.31121	32.85704	1217	2003	na	6	Tanira	6	2003	na	24	Functionning	Clear	Fresh	28.8	6.4	0.4	44
HP-453	Nzega	Mogwa	Mogwa	2	Ilole	na	Shallow well	4.32894	32.85486	1231	2009	na	6	Tanira	6	2009	na	na	Under Construction	na	na	na	na	na	na
HP-454	Nzega	Mogwa	Usalala	7	Bukumbi	na	Shallow well	4.2414	32.77732	1184	2009	na	7	Tanira	7	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-455	Nzega	Mogwa	Usalala	7	Kigangama	na	Shallow well	4.27135	32.81858	1195	2006	na	6	Tanira	6	2006	na	24	Functionning	Clear	Fresh	27.9	5.7	0.4	63
HP-456	Nzega	Mogwa	Usalala	7	King'Wangoko	na	Shallow well	4.25669	32.80421	1198	2009	na	6	Tanira	6	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-457	Nzega	Mogwa	Usalala	7	King'Wangoko	na	Shallow well	4.26003	32.7997	1195	2009	na	7.5	Tanira	7.5	2009	na	24	Functionning	Clear	Salty	27	6.2	1.55	56
HP-458	Nzega	Mogwa	Usalala	7	Manyinya	na	Shallow well	4.26496	32.78311	1206	2009	na	6	Tanira	6	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-459	Nzega	Mogwa	Usalala	7	Nyanhuli	na	Shallow well	4.24981	32.81823	1181	2009	na	6.5	Tanira	6.5	2009	na	24	Functionning	Clear	Fresh	27.9	6.5	0.4	44
HP-460	Nzega	Mogwa	Usalala	7	Nyanhuli	na	Shallow well	4.24966	32.81812	1181	2006	na	6	Tanira	6	2006	na	24	Unfunctionning	na	na	na	na	na	na
HP-461	Nzega	Muhugi	Nhumbili	2	Imenya	na	Shallow well	4.40241	33.21474	1227	2009	na	na	Tanira	na	2009	na	24	Functionning	Clear	Clear	28.2	5.6	0.4	60
HP-462	Nzega	Muhugi	Nhumbili	2	Nhumbili	na	Shallow well	4.37567	33.20762	1226	2009	na	na	Tanira	na	2009	na	24	Functionning	Clear	Clear	28.8	5.7	0.4	62
HP-463	Nzega	Muhugi	Ubinga	3	Ilungu	na	Shallow well	4.45364	33.30788	1224	2009	na	na	Tanira	na	2009	na	24	Functionning	Clear	Salty	27.8	6.8	1.45	63.4
HP-464	Nzega	Muhugi	Ubinga	3	Ubinga	na	Shallow well	4.41341	33.3073	1245	2009	na	na	Tanira	na	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-465	Nzega	Muhugi	Ubinga	3	Ubinga	na	Shallow well	4.40993	33.30252	1252	2005	na	na	Tanira	na	2005	na	24	Unfunctionning	na	na	na	na	na	na
HP-466	Nzega	Muhugi	Upina	1	Upina	na	Shallow well	4.30351	33.2698	1232	2009	na	na	Tanira	na	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-467	Nzega	Mwakashanhala	Ibelafinga	3	Chibiso	na	Deep well	4.63053	33.02679	1218	2009	na	66	Afridev	na	2009	na	14	Functionning	clear	Fresh	27	7.6	0.4	46
HP-468	Nzega	Mwakashanhala	Ibelafinga	3	Ibelafinga	na	Deep well	4.66293	32.94961	1179	2009	na	68	no pump	na	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-469	Nzega	Mwakashanhala	Ibelafinga	3	Mwachagujo	na	Deep well	4.6357	32.99864	1201	2009	na	72	no pump	na	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-470	Nzega	Mwakashanhala	Kigandu	5	Kalangale	na	Deep well	4.69428	33.00216	1189	2008	na	68	Afridev	na	2008	na	17	Functionning	clear	Fresh	26.5	7.2	0.4	71
HP-471	Nzega	Mwakashanhala	Kigandu	5	Kalumwa	na	Deep well	4.66067	32.98905	1189	2008	na	72	Afridev	na	2008	na	10	Functionning	clear	Fresh	26.4	6.5	0.4	63
HP-472	Nzega	Mwakashanhala	Kigandu	5	Kalumwa	na	Deep well	4.67562	32.99071	1195	2008	na	70	Afridev	na	2008	na	13	Functionning	clear	Fresh	27	6.9	ND	52
HP-473	Nzega	Mwakashanhala	Kigandu	5	Kigandu Centre	na	Deep well	4.66475	33.01737	1214	2008	na	75	Afridev	na	2008	na	15	Functionning	clear	Fresh	27.6	6.3	0.4	64
HP-474	Nzega	Mwakashanhala	Kigandu	5	Kigandu Centre	na	Deep well	4.66004	33.0163	1224	2008	na	73	Afridev	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-475	Nzega	Mwakashanhala	Mwakashanhala	10	Iponyanundo	na	Deep well	4.67191	33.13599	1223	2008	na	47	Afridev	na	2008	na	12	Functionning	clear	Fresh	26	7.6	0.4	66
HP-476	Nzega	Mwakashanhala	Mwakashanhala	10	Isagenhe	na	Deep well	4.68672	33.11259	1216	2008	na	52	Afridev	na	2008	na	12	Functionning	clear	Fresh	26.8	6.9	0.4	57
HP-477	Nzega	Mwakashanhala	Mwakashanhala	10	Kiloleli	na	Deep well	4.63579	33.05023	1211	2008	na	72	Afridev	na	2008	na	12	Functionning	clear	Fresh	27.3	7.9	0.4	63
HP-478	Nzega	Mwakashanhala	Mwakashanhala	10	Miguwa	na	Deep well	4.65872	33.0893	1221	2008	na	63	Afridev	na	2008	na	12	Functionning	clear	Fresh	27	6.4	0.8	62
HP-479	Nzega	Mwakashanhala	Mwakashanhala	10	Mwajilili	na	Deep well	4.62153	33.06649	1206	2008	na	65	Afridev	na	2008	na	12	Functionning	clear	Fresh	26.9	6	0.4	54
HP-480	Nzega	Mwakashanhala	Mwakashanhala	10	Mwajilili	na	Deep well	4.62015	33.05029	1211	2009	na	66	no pump	na	2009	na	na	Pump Removed	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-481	Nzega	Mwakashanhala	Mwakashanhala	10	Mwakashanhala	na	Deep well	4.64274	33.06774	1220	2008	na	68	Afridev	na	2008	na	12	Functionning	clear	Fresh	26.8	6.4	0.4	44
HP-482	Nzega	Mwakashanhala	Mwakashanhala	10	Mwakashanhala	na	Deep well	4.65174	33.08013	1229	2008	na	83	Afridev	na	2008	na	12	Functionning	clear	Fresh	26.4	5.9	0.4	66
HP-483	Nzega	Mwakashanhala	Mwakashanhala	10	Uchosa	na	Deep well	4.63812	33.09684	1216	2008	na	42	Afridev	na	2008	na	12	Functionning	clear	Fresh	28.2	6.8	0.4	72
HP-484	Nzega	Mwakashanhala	Mwakashanhala	10	Uyogu	na	Deep well	4.65466	33.10098	1221	2008	na	38	Afridev	na	2008	na	12	Functionning	clear	Fresh	26.6	7.2	ND	45
HP-485	Nzega	Mwakashanhala	Mwanhembo	2	Mwanhembo Centre	na	Shallow well	4.59853	33.02551	1202	2009	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-486	Nzega	Mwakashanhala	Mwanhembo	2	Mwanhembo Centre	na	Shallow well	4.60453	33.02159	1202	2009	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-487	Nzega	Mwakashanhala	Ugembe Ii	8	Ibakuli	na	Deep well	4.59249	32.9798	1193	2008	na	62	Afridev	na	2008	na	12	Functionning	clear	Fresh	26	7.2	0.4	72
HP-488	Nzega	Mwakashanhala	Ugembe Ii	8	Ishita'B'	na	Deep well	4.58653	32.96507	1190	2008	na	76	Afridev	na	2008	na	12	Functionning	clear	Fresh	27	7	0.4	62
HP-489	Nzega	Mwakashanhala	Ugembe Ii	8	Ishita'B'	na	Deep well	4.59749	32.9698	1185	2008	na	72	Afridev	na	2008	na	12	Unfunctionning	na	na	na	na	na	na
HP-490	Nzega	Mwakashanhala	Ugembe Ii	8	Ishita'B'	na	Deep well	4.60354	32.95013	1179	2009	na	60	no pump	na	2009	na	12	Pump Removed	na	na	na	na	na	na
HP-491	Nzega	Mwakashanhala	Ugembe Ii	8	Misese	na	Deep well	4.58528	32.9757	1191	2008	na	72	Afridev	na	2008	na	12	Functionning	clear	Fresh	27	6	ND	57
HP-492	Nzega	Mwakashanhala	Ugembe Ii	8	Misese	na	Deep well	4.5687	32.95031	1183	2009	na	68	no pump	na	2009	na	12	Pump Removed	na	na	na	na	na	na
HP-493	Nzega	Mwakashanhala	Ugembe Ii	8	Ugembe Ii Centre	na	Deep well	4.59246	32.97317	1189	2006	na	68	Afridev	na	2006	na	12	Unfunctionning	na	na	na	na	na	na
HP-494	Nzega	Mwakashanhala	Ugembe Ii	8	Ugembe Ii Centre	na	Deep well	4.59264	32.97118	1188	2009	na	60	Afridev	na	2009	na	12	Functionning	clear	Fresh	26	6	0.4	45
HP-495	Nzega	Mwamala	Buhondo	3	Buhondo	na	Shallow well	3.97621	32.93909	1150	2006	na	na	Tanira	na	2006	na	24	Functionning	Yellowish	Fresh	27	6.4	ND	9.8
HP-496	Nzega	Mwamala	Buhondo	3	Buhondo	na	Shallow well	3.97584	32.94166	1147	2007	na	na	Tanira	na	2007	na	24	Functionning	Milky	Fresh	26.9	6.5	ND	9.2
HP-497	Nzega	Mwamala	Buhondo	3	Mwasato	na	Shallow well	3.98857	32.94908	1137	2004	na	na	Tanira	na	2004	na	24	Functionning	Clear	Fresh	26.8	6	ND	11.2
HP-498	Nzega	Mwamala	Chaming'Hwa	6	Bugobo	na	Shallow well	4.11296	32.9144	1176	2009	na	5.8	Tanira	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-499	Nzega	Mwamala	Chaming'Hwa	6	Buneleja	na	Shallow well	4.1051	32.90251	1171	2000	na	4	Tanira	na	2000	na	na	Unfunctionning	na	na	na	na	na	na
HP-500	Nzega	Mwamala	Chaming'Hwa	6	Chaming'Hwa	na	Shallow well	4.10716	32.92013	1183	2009	na	6	Tanira	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-501	Nzega	Mwamala	Chaming'Hwa	6	Chanemba	na	Shallow well	4.09891	32.93407	1167	2009	na	6	Tanira	na	2009	na	24	Functionning	Clear	Fresh	27.1	6.4	ND	19.8
HP-502	Nzega	Mwamala	Chaming'Hwa	6	Mhaganwa	na	Shallow well	4.09079	32.91739	1172	2008	na	6	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-503	Nzega	Mwamala	Chaming'Hwa	6	Nyahawe	na	Shallow well	4.11746	32.92184	1185	2008	na	7	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-504	Nzega	Mwamala	Kishili	6	Kashishi	na	Shallow well	4.11944	32.96058	1181	2000	na	6.1	Tanira	na	2000	na	na	Unfunctionning	na	na	na	na	na	na
HP-505	Nzega	Mwamala	Kishili	6	Kashishi	na	Shallow well	4.12581	32.95913	1185	2000	na	6.8	Tanira	na	2000	na	na	Unfunctionning	na	na	na	na	na	na
HP-506	Nzega	Mwamala	Kishili	6	Kishili	na	Shallow well	4.13518	32.94939	1195	2001	na	6	Tanira	na	2001	na	24	Functionning	Clear	Fresh	27.1	6.1	ND	12.9
HP-507	Nzega	Mwamala	Kishili	6	Kishili	na	Shallow well	4.13738	32.94813	1200	2000	na	7	Tanira	na	2000	na	na	Unfunctionning	na	na	na	na	na	na
HP-508	Nzega	Mwamala	Kishili	6	Kitongo	na	Shallow well	4.12169	32.9396	1184	2008	na	4	Tanira	na	2008	na	24	Functionning	Milky	Fresh	27.4	5.9	ND	21
HP-509	Nzega	Mwamala	Kishili	6	Kitongo	na	Shallow well	4.11613	32.9362	1182	2002	na	na	Tanira	na	2002	na	na	Unfunctionning	na	na	na	na	na	na
HP-510	Nzega	Mwamala	Mahene	1	Igabanilo	na	Shallow well	4.08631	32.90604	1170	2000	na	6	Tanira	na	2000	na	24	Functionning	Clear	Fresh	27.9	6.1	ND	25
HP-511	Nzega	Mwamala	Mwamala	3	Bulyangoko	na	Shallow well	4.06931	32.95961	1144	2000	na	7	Tanira	na	2000	na	24	Functionning	Milky	Fresh	27.1	6.1	ND	12.8
HP-512	Nzega	Mwamala	Mwamala	3	Mwamala 'B'	na	Shallow well	4.07923	32.95407	1151	2000	na	6	Tanira	na	2000	na	na	Unfunctionning	na	na	na	na	na	na
HP-513	Nzega	Mwamala	Mwamala	3	Seki	na	Shallow well	4.06105	32.9714	1141	2009	na	6	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-514	Nzega	Mwamala	Nawa	1	Nawa 'A'	na	Shallow well	4.02279	32.90026	1158	1999	na	na	Tanira	na	1999	na	na	Unfunctionning	na	na	na	na	na	na
HP-515	Nzega	Mwangoye	Chamipulu	8	Chamipulu	na	Deep well	4.06125	33.07178	1148	2007	na	na	Afridev	na	na	na	na	Functionning	milky	salt	27	4.9	0.8	192.2
HP-516	Nzega	Mwangoye	Chamipulu	8	Chamipulu	na	Shallow well	4.05432	33.0827	1140	1980	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-517	Nzega	Mwangoye	Chamipulu	8	Chamipulu	na	Shallow well	4.05402	33.08377	1139	1980	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-518	Nzega	Mwangoye	Chamipulu	8	Chamipulu	na	Deep well	4.05493	33.08461	1136	2001	na	na	Afridev	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-519	Nzega	Mwangoye	Chamipulu	8	Chamipulu	na	Shallow well	4.0548	33.08519	1134	1980	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-520	Nzega	Mwangoye	Chamipulu	8	Chamipulu	na	Shallow well	4.05411	33.08451	1136	1980	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-521	Nzega	Mwangoye	Chamipulu	8	Ikina	na	Shallow well	4.0315	33.09137	1132	1980	na	7	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-522	Nzega	Mwangoye	Chamipulu	8	Nhungulu	na	Shallow well	4.04964	33.08723	1134	2007	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-523	Nzega	Mwangoye	Igalula	1	Igalula	na	Deep well	4.09711	33.09311	1146	2001	na	na	Afridev	na	2001	na	12	Functionning	clear	salt	27.2	4.9	0.8	192.1
HP-524	Nzega	Mwangoye	Ilagaja	3	Idodoma	na	Shallow well	4.01861	33.09282	1131	2003	na	6	Tanira	na	2000	na	na	Unfunctionning	na	na	na	na	na	na
HP-525	Nzega	Mwangoye	Ilagaja	3	Ilagaja	na	Shallow well	4.01238	33.09546	1132	2003	na	6	Tanira	na	2000	na	na	Unfunctionning	na	na	na	na	na	na
HP-526	Nzega	Mwangoye	Ilagaja	3	Ilagaja	na	Shallow well	4.0153	33.09669	1131	2000	na	7	Tanira	na	2000	na	na	Unfunctionning	na	na	na	na	na	na
HP-527	Nzega	Mwangoye	Kaselya	3	Kabanga	na	Shallow well	4.05389	33.08259	1142	2009	na	4	Tanira	na	2009	na	10	Functionning	milky	Salty	26.9	4.5	0.8	192.2
HP-528	Nzega	Mwangoye	Kaselya	3	Kaselya	na	Shallow well	4.0333	33.05353	1137	1980	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-529	Nzega	Mwangoye	Kaselya	3	Nyangabo	na	Shallow well	4.06538	33.08116	1146	2000	na	5.6	Tanira	na	2000	na	10	Functionning	milky	Fresh	27	4.6	ND	15.8
HP-530	Nzega	Mwangoye	Mwaguguli	2	Idubula	na	Shallow well	4.03838	33.03019	1134	1980	na	6	no pump	na	1980	na	na	Pump Removed	na	na	na	na	na	na
HP-531	Nzega	Mwangoye	Mwaguguli	2	Mwakisenga	na	Deep well	4.05724	33.02845	1138	2001	na	4.5	Afridev	na	2001	na	15	Functionning	milky	Salty	27	6	0.8	210
HP-532	Nzega	Mwangoye	Mwamikola	2	Mwamikola	na	Shallow well	4.0315	33.03036	1126	20009	4	7	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-533	Nzega	Mwangoye	Mwamikola	2	Mwamikola	na	Shallow well	4.03061	33.02744	1121	20009	4.2	6.8	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-534	Nzega	Mwangoye	Sagida	5	Ibale	na	Shallow well	4.08738	33.03823	1158	2003	na	6	Tanira	na	2000	na	12	Functionning	milky	Fresh	28	6	ND	9.2
HP-535	Nzega	Mwangoye	Sagida	5	Ineleja	na	Shallow well	4.10103	33.03515	1165	2003	na	9	Tanira	na	2000	na	na	Unfunctionning	na	na	na	na	na	na
HP-536	Nzega	Mwangoye	Sagida	5	Isanzu	na	Shallow well	4.09226	33.02804	1153	2003	na	8	Tanira	na	2000	na	12	Functionning	milky	Fresh	27.8	5.4	ND	9.2
HP-537	Nzega	Mwangoye	Sagida	5	Mnala	na	Shallow well	4.072	33.03464	1145	2003	na	12	Tanira	na	2000	na	12	Functionning	milky	Fresh	28	6	ND	11
HP-538	Nzega	Mwangoye	Sagida	5	NgWakulogwa	na	Shallow well	4.10984	33.04189	1169	2003	na	4	Tanira	na	200	na	10	Functionning	milky	Fresh	27	5	ND	8.1
HP-539	Nzega	Nata	Kabale	9	Busigili	UNKNOWN	Deep well	3.96852	33.1721	1094	2000	na	na	Afridev	na	2000	na	24	Functionning	Clear	Salty	27	5.8	0.8	42
HP-540	Nzega	Nata	Kabale	9	Itonjamandi	UNKNOWN	Deep well	4.01582	33.16574	1121	2001	na	na	Afridev	na	2001	na	24	Functionning	Clear	Fresh	27.4	5.9	0.4	42
HP-541	Nzega	Nata	Kabale	9	Itonjamandi	UNKNOWN	Deep well	4.01693	33.17118	1130	2001	56	72	Afridev	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-542	Nzega	Nata	Kabale	9	Kabale	UNKNOWN	Deep well	4.0169	33.18295	1132	2003	na	na	Afridev	na	2000	na	24	Functionning	Clear	Fresh	27.1	6.3	0.8	40
HP-543	Nzega	Nata	Kabale	9	Kabale	UNKNOWN	Deep well	4.01172	33.19242	1126	2003	na	na	Afridev	na	2000	na	24	Functionning	Clear	Salty	26.2	5.8	0.8	42
HP-544	Nzega	Nata	Kabale	9	Kasela	UNKNOWN	Deep well	4.05619	33.1728	1135	2001	na	na	Afridev	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-545	Nzega	Nata	Kabale	9	Kasela	UNKNOWN	Deep well	4.05221	33.16095	1132	2001	na	na	UC	na	2001	na	24	Under Construction	Clear	Fresh	26.5	6.3	0.8	48.3
HP-546	Nzega	Nata	Kabale	9	Lubaga	UNKNOWN	Deep well	3.96361	33.14195	1103	2000	na	na	Afridev	na	2000	na	24	Functionning	Clear	Salty	27.4	6.3	0.8	39.2
HP-547	Nzega	Nata	Kabale	9	Mwagundu	UNKNOWN	Deep well	4.02381	33.17314	1125	2001	na	na	Afridev	na	2001	na	24	Functionning	Clear	Fresh	27.2	6.2	0.8	46
HP-548	Nzega	Nata	Kanolo	4	Busiya	UNKNOWN	Shallow well	3.96281	33.13461	1104	2003	na	na	Afridev	na	2003	na	na	Functionning	Clear	Fresh	26.4	5.9	0.4	50
HP-549	Nzega	Nata	Kanolo	4	Kanolo	UNKNOWN	Shallow well	3.98252	33.13026	1110	2000	na	na	CEMO	na	2000	na	24	Functionning	Clear	Fresh	26	5.8	0.8	49.2
HP-550	Nzega	Nata	Kanolo	4	Seke	UNKNOWN	Deep well	3.99754	33.17268	1107	2003	na	na	Afridev	na	2003	na	24	Functionning	Clear	Fresh	26.4	6.2	0.4	49.5
HP-551	Nzega	Nata	Kanolo	4	Seke	UNKNOWN	Deep well	3.97024	33.15418	1102	2003	na	na	Afridev	na	2003	na	24	Functionning	Clear	Fresh	26.2	6.3	ND	48.8
HP-552	Nzega	Nata	Kilabili	1	Kilabili	UNKNOWN	Shallow well	4.05147	33.11356	1139	2003	na	na	Tanira	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-553	Nzega	Nata	Mwabangu	1	Mwabangu 'A'	UNKNOWN	Unknown	4.051	33.11143	1137	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-554	Nzega	Nata	Nata	2	Nyalaja	UNKNOWN	Shallow well	4.02965	33.13224	1139	1986	na	na	Afridev	na	1986	na	24	Unfunctionning	na	na	na	na	na	na
HP-555	Nzega	Nata	Nata	2	Nyalaja	UNKNOWN	Shallow well	4.02912	33.13263	1137	2000	na	na	Tanira	na	2000	na	24	Functionning	na	na	na	na	na	na
HP-556	Nzega	Ndala	Kampala	1	Kampala	na	Deep well	4.74911	33.23213	1252	2008	na	na	Indian Mk-II	na	2008	na	24	Unfunctionning	na	na	na	na	na	na
HP-557	Nzega	Ndala	Mabisilo	1	Mabisilo Kati	na	Unknown	4.67465	33.22766	1255	2009	na	na	no pump	na	2009	na	24	Pump Removed	na	na	na	na	na	na
HP-558	Nzega	Ndala	Uhemeli	1	Uhemeli Kati	na	Shallow well	4.77846	33.23186	1233	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Salty	28.7	6.3	1.41	122
HP-559	Nzega	Ndala	Wita	3	Itunda	na	Shallow well	4.73625	33.29965	1225	2009	na	na	no pump	na	2009	na	24	Pump Removed	na	na	na	na	na	na
HP-560	Nzega	Ndala	Wita	3	Kasuhilo	na	Shallow well	4.74848	33.32759	1207	2005	na	na	Tanira	na	2005	na	24	Unfunctionning	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-561	Nzega	Ndala	Wita	3	Magulya	na	Shallow well	4.70773	33.27567	1240	2009	na	na	Tanira	na	2009	na	24	Under Construction	na	na	na	na	na	na
HP-562	Nzega	Nkiniziwa	Nkiniziwa	2	Nkiniziwa 'A'	na	Deep well	4.59166	33.16132	1230	2007	na	na	Indian Mk-II	na	2007	na	24	Functionning	Milky	Clear	28	5.7	0.4	64
HP-563	Nzega	Nkiniziwa	Nkiniziwa	2	Nkiniziwa 'B'	na	Deep well	4.57544	33.15707	1215	2006	na	na	Afridev	na	2006	na	24	Functionning	Milky	Clear	28.8	6.3	0.4	70
HP-564	Nzega	Nkiniziwa	Nkuge	1	Madegelo	na	Shallow well	4.51215	33.01599	1204	2009	na	na	no pump	na	na	na	24	Pump Removed	na	na	na	na	na	na
HP-565	Nzega	Nzega Mjini	Nzega Mjini	7	Ipilili 'A'	na	Deep well	4.22202	33.18679	1226	1974	na	62	Submersible	na	1974	na	24	Functionning	clear	Fresh	26	6.9	0.4	64
HP-566	Nzega	Nzega Mjini	Nzega Mjini	7	Kachoma	na	Deep well	4.22204	33.18955	1226	1996	na	50	Indian Mk-II	na	1996	na	12	Functionning	clear	Salty	26.3	7.2	0.8	56
HP-567	Nzega	Nzega Mjini	Nzega Mjini	7	Kachoma	na	Deep well	4.22285	33.19149	1224	1996	na	50	Indian Mk-II	na	1996	na	10	Functionning	clear	Salty	26	6.9	0.8	54
HP-568	Nzega	Nzega Mjini	Nzega Mjini	7	Majengo	na	Deep well	4.21608	33.17864	1242	1999	na	55	no pump	na	1999	na	24	Pump Removed	clear	Fresh	27	6.3	0.4	45
HP-569	Nzega	Nzega Mjini	Nzega Mjini	7	Majengo	na	Deep well	4.21704	33.18139	1235	2008	na	60	Indian Mk-II	na	2008	na	15	Functionning	clear	Fresh	26.3	7	0.4	56
HP-570	Nzega	Nzega Mjini	Nzega Mjini	7	Mwaisela 'A'	na	Shallow well	4.21324	33.19028	1226	2009	na	6	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-571	Nzega	Nzega Mjini	Nzega Mjini	7	Ushirika	na	Shallow well	4.21461	33.17395	1239	1980	na	8	no pump	na	1980	na	na	Pump Removed	na	na	na	na	na	na
HP-572	Nzega	Nzega Ndogo	Undomo	1	Ndomo Cheyo	UNKNOWN	Deep well	4.14331	33.21764	1177	2001	na	na	Afridev	na	2001	na	24	Functionning	Clear	Salty	26.2	6.2	0.8	50
HP-573	Nzega	Nzega Ndogo	Zogolo	1	Iligo	UNKNOWN	Shallow well	4.09354	33.14783	1161	na	na	na	Afridev	na	na	na	24	Unfunctionning	na	na	na	na	na	na
HP-574	Nzega	Puge	Busondo	8	Busondo Mashariki	na	Shallow well	4.66466	33.19263	1235	2009	na	na	no pump	na	2009	na	24	Pump Removed	na	na	na	na	na	na
HP-575	Nzega	Puge	Busondo	8	Busondo Mashariki	na	Shallow well	4.6634	33.19199	1237	2009	na	na	Tanira	na	2009	na	na	Functionning	Clear	Clear	28.7	5.3	0.4	62
HP-576	Nzega	Puge	Busondo	8	Busondo Mashariki	na	Shallow well	4.67661	33.1786	1253	2008	na	na	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-577	Nzega	Puge	Busondo	8	Busondo Mashariki	na	Shallow well	4.66004	33.18281	1236	2009	na	na	Tanira	na	2009	na	24	Functionning	Clear	Clear	28.2	6.4	0.4	63
HP-578	Nzega	Puge	Busondo	8	Busondo Mashariki	na	Shallow well	4.68061	33.16103	1238	2009	na	na	Tanira	na	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-579	Nzega	Puge	Busondo	8	Kipugala	na	Shallow well	4.64752	33.17265	1244	2008	na	na	Tanira	na	2008	na	24	Unfunctionning	na	na	na	na	na	na
HP-580	Nzega	Puge	Busondo	8	Kipugala	na	Shallow well	4.66788	33.16893	1245	2008	na	na	Tanira	na	2008	na	24	Unfunctionning	na	na	na	na	na	na
HP-581	Nzega	Puge	Busondo	8	Mwapu	na	Shallow well	4.68497	33.1809	1254	2009	na	na	Tanira	na	2009	na	24	Functionning	Clear	Clear	28.7	5.9	0.4	62
HP-582	Nzega	Puge	Isuhna	5	Isuhna 'A' Magharibi	na	Shallow well	4.75857	33.14389	1236	na	na	na	no pump	na	na	na	24	Pump Removed	na	na	na	na	na	na
HP-583	Nzega	Puge	Isuhna	5	Isuhna 'A' Mashariki	na	Shallow well	4.75975	33.14702	1230	na	na	na	no pump	na	na	na	24	Pump Removed	na	na	na	na	na	na
HP-584	Nzega	Puge	Isuhna	5	Isuhna 'A' Mashariki	na	Shallow well	4.7556	33.13178	1222	2005	na	na	Tanira	na	2005	na	24	Unfunctionning	na	na	na	na	na	na
HP-585	Nzega	Puge	Isuhna	5	Isuhna 'B' Magharibi	na	Shallow well	4.74062	33.14241	1239	1985	na	na	no pump	na	1985	na	24	Pump Removed	na	na	na	na	na	na
HP-586	Nzega	Puge	Isuhna	5	Isuhna 'B' Mashariki	na	Shallow well	4.74397	33.14609	1238	1985	na	na	no pump	na	1985	na	24	Pump Removed	na	na	na	na	na	na
HP-587	Nzega	Puge	Upungu	2	Upungu Magharibi	na	Shallow well	4.72777	33.16591	1240	2009	na	na	Tanira	na	2009	na	24	Functionning	Clear	Clear	28.7	6.3	0.4	66
HP-588	Nzega	Puge	Upungu	2	Upungu Mashariki	na	Shallow well	4.72825	33.16846	1243	2009	na	na	Indian Mk-II	na	2009	na	24	Functionning	Clear	Clear	28	5.9	ND	61
HP-589	Nzega	Semembela	Kasanga	1	Nkinga	na	Shallow well	4.40805	32.68154	1261	1990	na	6	no pump	6	na	na	24	Pump Removed	na	na	na	na	na	na
HP-590	Nzega	Semembela	Mbooga	1	Magomeni	na	Shallow well	4.27189	32.54674	1196	1980	na	7	no pump	7	2009	na	24	Pump Removed	na	na	na	na	na	na
HP-591	Nzega	Semembela	Nsumba	1	Nsumba	na	Shallow well	4.30919	32.59431	1185	1990	na	7	no pump	7	na	na	24	Pump Removed	na	na	na	na	na	na
HP-592	Nzega	Semembela	Semembela	2	Semembela	na	Shallow well	4.32753	32.66448	1233	2001	na	6	no pump	6	na	na	24	Pump Removed	na	na	na	na	na	na
HP-593	Nzega	Semembela	Semembela	2	Semembela	na	Shallow well	4.32582	32.66373	1223	1984	na	7	no pump	7	na	na	24	Pump Removed	na	na	na	na	na	na
HP-594	Nzega	Semembela	Uguluma	2	Uguluma	na	Shallow well	4.3784	32.65495	1216	2005	na	6	no pump	6	na	na	24	Pump Removed	na	na	na	na	na	na
HP-595	Nzega	Semembela	Uguluma	2	Uguluma	na	Shallow well	4.37664	32.65696	1215	2005	na	4	no pump	4	na	na	24	Pump Removed	na	na	na	na	na	na
HP-596	Nzega	Shigamba	Kagongwa	1	Ngukuilu	na	Shallow well	4.1959	33.08941	1196	2008	na	6	Tanira	na	2008	na	24	Functionning	Clear	Fresh	28.3	6.8	0.4	63
HP-597	Nzega	Shigamba	Shigamba	1	Shigamba	na	Shallow well	4.19838	33.0613	1210	2006	na	6	Tanira	na	2006	na	na	Unfunctionning	na	na	na	na	na	na
HP-598	Nzega	Sigili	Bulambuka	1	Bulambuka	na	Shallow well	3.9219	33.00483	1148	1970	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-599	Nzega	Sigili	Iboja	1	Busumbwa	na	Shallow well	3.94303	32.94704	1169	2008	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-600	Nzega	Sigili	Lyamalagwa	1	Lyamalagwa	na	Shallow well	3.95604	33.0593	1109	1980	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-601	Nzega	Sigili	Sigili	1	Nyandekwa	na	Shallow well	3.92603	32.99776	1159	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-602	Nzega	Tongi	Chabutwa	1	Kawigolo	na	Shallow well	4.69306	33.3095	1235	2008	na	8	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-603	Nzega	Tongi	Mangashini	4	Mangashini	na	Shallow well	4.6793	33.34102	1220	2008	na	4	Tanira	na	2008	na	na	Under Construction	na	na	na	na	na	na
HP-604	Nzega	Tongi	Mangashini	4	Mangashini	na	Shallow well	4.67637	33.34766	1216	2008	na	38	Tanira	na	2008	na	na	Under Construction	na	na	na	na	na	na
HP-605	Nzega	Tongi	Mangashini	4	Mwalugusha	na	Shallow well	4.63956	33.33725	1224	2008	na	6	Tanira	na	2008	na	na	Functionning	milky	Fresh	26	7.5	0.4	62
HP-606	Nzega	Tongi	Mangashini	4	Mwamesu	na	Shallow well	4.69638	33.39835	1195	2008	na	7	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-607	Nzega	Tongi	Ndekeli	3	Tongi 'A'	na	Shallow well	4.66367	33.29682	1236	2007	na	7	Tanira	na	2007	na	na	Functionning	milky	Fresh	26.4	7	0.4	52
HP-608	Nzega	Tongi	Ndekeli	3	Tongi 'A'	na	Shallow well	4.65866	33.28052	1247	2009	na	8	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-609	Nzega	Tongi	Ndekeli	3	Tongi 'B'	na	Shallow well	4.65392	33.28687	1247	2009	na	8	Tanira	na	2009	na	na	Functionning	milky	Fresh	26	7.4	0.4	63
HP-610	Nzega	Tongi	Nkingamalucha	1	Malucha	na	Shallow well	4.59675	33.37951	1231	1971	na	12	no pump	na	1971	na	na	Pump Removed	na	na	na	na	na	na
HP-611	Nzega	Tongi	Tumbi	3	Mwandulu	na	Shallow well	4.56366	33.30794	1259	2002	na	na	no pump	na	2002	na	na	Pump Removed	na	na	na	na	na	na
HP-612	Nzega	Tongi	Tumbi	3	Tumbi Kati	na	Shallow well	4.61748	33.29725	1231	2009	na	na	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-613	Nzega	Tongi	Tumbi	3	Tumbi Kati	na	Deep well	4.60377	33.29574	1241	2003	na	na	Indian Mk-II	na	2003	na	na	Functionning	milky	Fresh	27	6.5	0.4	45
HP-614	Nzega	Uduka	Kabanga	13	Igiku	na	Shallow well	4.1698	32.93093	1199	2009	na	8	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-615	Nzega	Uduka	Kabanga	13	Kabanga	na	Shallow well	4.18064	32.92673	1198	2007	na	6	Tanira	na	2007	na	24	Functionning	clear	Salty	27	4.9	0.8	129
HP-616	Nzega	Uduka	Kabanga	13	Kabanga	na	Shallow well	4.17793	32.92608	1197	2008	na	7	Tanira	na	2008	na	24	Functionning	clear	Fresh	27.1	5.4	0.4	32
HP-617	Nzega	Uduka	Kabanga	13	Kabanga	na	Shallow well	4.17773	32.92585	1197	1980	na	6.2	no pump	na	1980	na	na	Stolen	na	na	na	na	na	na
HP-618	Nzega	Uduka	Kabanga	13	Kabanga	na	Shallow well	4.1775	32.93391	1197	1980	na	4	no pump	na	1980	na	na	Stolen	na	na	na	na	na	na
HP-619	Nzega	Uduka	Kabanga	13	Kabanga	na	Shallow well	4.18565	32.9376	1191	1980	na	5	no pump	na	1980	na	na	Stolen	na	na	na	na	na	na
HP-620	Nzega	Uduka	Kabanga	13	Kabanga	na	Shallow well	4.18989	32.92622	1197	2009	na	6.4	Tanira	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-621	Nzega	Uduka	Kabanga	13	Kabanga	na	Shallow well	4.18882	32.91886	1197	1980	na	4	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-622	Nzega	Uduka	Kabanga	13	Kishili	na	Shallow well	4.15601	32.94102	1204	1988	na	4.9	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-623	Nzega	Uduka	Kabanga	13	Masindi 'A'	na	Shallow well	4.20553	32.9265	1196	2007	na	na	no pump	na	2007	na	na	Pump Removed	na	na	na	na	na	na
HP-624	Nzega	Uduka	Kabanga	13	Masindi 'A'	na	Shallow well	4.20572	32.91981	1194	1980	na	na	no pump	na	1980	na	na	Pump Removed	na	na	na	na	na	na
HP-625	Nzega	Uduka	Kabanga	13	Masindi 'A'	na	Shallow well	4.20521	32.91961	1193	2009	na	na	no pump	na	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-626	Nzega	Uduka	Kabanga	13	Masindi 'B'	na	Shallow well	4.19651	32.94112	1189	2008	na	4.6	Tanira	na	2008	na	24	Functionning	clear	Fresh	27.6	5.4	0.4	26
HP-627	Nzega	Uduka	Uduka	12	Itanana	na	Shallow well	4.17553	32.92051	1202	2009	na	7.2	Tanira	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-628	Nzega	Uduka	Uduka	12	Itanana	na	Shallow well	4.17733	32.9095	1212	2006	na	4.9	Tanira	na	2006	na	24	Functionning	clear	Fresh	27.2	6	ND	12
HP-629	Nzega	Uduka	Uduka	12	Itanana	na	Shallow well	4.17623	32.90939	1212	2009	na	7	Tanira	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-630	Nzega	Uduka	Uduka	12	Itanana	na	Shallow well	4.16447	32.90472	1214	2009	na	6	Tanira	na	2009	na	24	Functionning	clear	Fresh	27.9	6.5	ND	9.8
HP-631	Nzega	Uduka	Uduka	12	Itanana	na	Shallow well	4.16504	32.8958	1220	1980	na	8	Tanira	na	1980	na	na	Unfunctionning	na	na	na	na	na	na
HP-632	Nzega	Uduka	Uduka	12	Itanana	na	Shallow well	4.16504	32.89583	1220	2009	na	na	Tanira	na	na	na	na	Under Construction	na	na	na	na	na	na
HP-633	Nzega	Uduka	Uduka	12	Itanana	na	Shallow well	4.17069	32.89956	1226	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-634	Nzega	Uduka	Uduka	12	Itanana	na	Shallow well	4.17764	32.893	1222	2009	na	na	no pump	na	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-635	Nzega	Uduka	Uduka	12	Itanana	na	Shallow well	4.1822	32.89336	1220	2009	na	na	no pump	na	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-636	Nzega	Uduka	Uduka	12	Itanana	na	Shallow well	4.18175	32.89256	1218	2006	na	6.1	Tanira	na	2006	na	24	Functionning	Milky	Fresh	27	7	ND	13
HP-637	Nzega	Uduka	Uduka	12	Uduka	na	Shallow well	4.19848	32.90739	1199	1980	na	na	no pump	na	1980	na	na	Pump Removed	na	na	na	na	na	na
HP-638	Nzega	Uduka	Uduka	12	Uduka	na	Shallow well	4.19913	32.9071	1199	2009	na	na	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-639	Nzega	Uduka	Usongwanhala	6	Kazima	na	Shallow well	4.18423	32.86884	1186	2009	na	5	Tanira	na	2009	na	24	Functionning	na	na	na	na	na	na
HP-640	Nzega	Uduka	Usongwanhala	6	Kazima	na	Shallow well	4.17576	32.8726	1196	1980	na	na	no pump	na	1980	na	na	Pump Removed	na	na	na	na	na	na

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HP-641	Nzega	Uduka	Usongwanhala	6	Kili	na	Shallow well	4.20047	32.88475	1195	2008	na	na	Tanira	na	2008	na	24	Functionning	na	na	na	na	na	na
HP-642	Nzega	Uduka	Usongwanhala	6	Kili	na	Shallow well	4.1962	32.88527	1198	2009	na	6.9	no pump	na	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-643	Nzega	Uduka	Usongwanhala	6	Usongwanhala	na	Shallow well	4.20637	32.87602	1187	1980	na	na	no pump	na	1980	na	na	Pump Removed	na	na	na	na	na	na
HP-644	Nzega	Uduka	Usongwanhala	6	Usongwanhala	na	Shallow well	4.20634	32.87599	1187	2009	na	4.9	Tanira	na	2009	na	24	Functionning	na	na	na	na	na	na
HP-645	Nzega	Utwigu	Isalalo	2	Isalalo	na	Shallow well	4.32269	33.1919	1237	2002	na	na	Tanira	na	2002	na	24	Unfunctionning	na	na	na	na	na	na
HP-646	Nzega	Utwigu	Isalalo	2	Isalalo	na	Shallow well	4.33096	33.18605	1233	2009	na	na	Tanira	na	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-647	Nzega	Utwigu	Ishiki	1	Ishiki	na	Shallow well	4.40101	33.10802	1208	na	na	na	no pump	na	na	na	24	Pump Removed	na	na	na	na	na	na
HP-648	Nzega	Utwigu	Kipilimuka	3	Ilimilo	na	Shallow well	4.41713	33.01142	1211	2008	na	4	no pump	na	2008	na	24	Pump Removed	na	na	na	na	na	na
HP-649	Nzega	Utwigu	Kipilimuka	3	Ndala	na	Shallow well	4.42497	32.99577	1225	2009	na	6	Tanira	6	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-650	Nzega	Utwigu	Kipilimuka	3	Ndala	na	Deep well	4.42669	33.00681	1208	2008	na	30	no pump	30	2008	na	24	Pump Removed	na	na	na	na	na	na
HP-651	Nzega	Utwigu	Mwambaha	1	Mwambaha	na	Shallow well	4.45566	33.16248	1236	2009	na	6	Tanira	na	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-652	Nzega	Utwigu	Mwanhala	4	Mwanhala 'A'	na	Deep well	4.35596	33.146	1224	2009	na	na	Afridev	na	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-653	Nzega	Utwigu	Mwanhala	4	Mwanhala 'A'	na	Shallow well	4.36015	33.14723	1220	1980	na	na	Tanira	na	na	na	24	Unfunctionning	na	na	na	na	na	na
HP-654	Nzega	Utwigu	Mwanhala	4	Mwanhala 'A'	na	Shallow well	4.36374	33.15646	1213	2009	na	na	Tanira	na	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-655	Nzega	Utwigu	Mwanhala	4	Mwanhala 'B'	na	Shallow well	4.37594	33.14026	1218	1984	na	na	Tanira	na	1984	na	24	Unfunctionning	na	na	na	na	na	na
HP-656	Nzega	Utwigu	Mwantundu	1	Mwantundu	na	Shallow well	4.45929	33.0866	1222	na	na	6	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-657	Nzega	Utwigu	Utwigu	4	Utwigu 'A'	na	Unknown	4.32998	33.16403	1235	1984	na	na	Tanira	na	na	na	24	Abandoned	na	na	na	na	na	na
HP-658	Nzega	Utwigu	Utwigu	4	Utwigu 'A'	na	Unknown	4.33602	33.1651	1228	1950	na	na	Tanira	na	na	na	24	Unfunctionning	na	na	na	na	na	na
HP-659	Nzega	Utwigu	Utwigu	4	Utwigu 'A'	na	Unknown	4.33594	33.16533	1229	1971	na	na	Tanira	na	na	na	24	Abandoned	na	na	na	na	na	na
HP-660	Nzega	Utwigu	Utwigu	4	Utwigu 'B'	na	Unknown	4.32737	33.164	1237	1963	na	na	Tanira	na	na	na	24	Abandoned	na	na	na	na	na	na
HP-661	Nzega	Wela	Gulumuni	2	Lindyati	UNKNOWN	Shallow well	4.17004	33.35041	1164	2006	na	na	Tanira	na	2006	na	24	Functionning	Milky	Clear	29.2	6.7	ND	11.4
HP-662	Nzega	Wela	Gulumuni	2	Lindyati	UNKNOWN	Shallow well	4.17036	33.35089	1163	1980	na	6	no pump	na	1980	na	24	Pump Removed	Milky	Clear	29.3	6.5	ND	10
HP-663	Nzega	Wela	Malilita	6	Isadukilo	UNKNOWN	Shallow well	4.10581	33.32452	1159	2004	na	na	no pump	na	2004	na	24	Pump Removed	na	na	na	na	na	na
HP-664	Nzega	Wela	Malilita	6	Isadukilo	UNKNOWN	Shallow well	4.1076	33.32036	1163	2007	na	na	Tanira	na	2007	na	24	Functionning	Clear	Salty	29.4	6.5	0.8	50
HP-665	Nzega	Wela	Malilita	6	Mwatenge 'A'	UNKNOWN	Shallow well	4.10429	33.32673	1156	2009	na	na	Tanira	na	2009	na	24	Functionning	Clear	Salty	29.2	6.3	0.4	30
HP-666	Nzega	Wela	Malilita	6	Mwatenge 'A'	UNKNOWN	Deep well	4.09846	33.3302	1158	2005	na	85	Indian Mk-II	na	2005	na	24	Unfunctionning	na	na	na	na	na	na
HP-667	Nzega	Wela	Malilita	6	Mwatenge 'B'	UNKNOWN	Shallow well	4.10795	33.31743	1165	2008	na	na	Tanira	na	2008	na	24	Functionning	Clear	Salty	29.7	6.7	0.8	50.2
HP-668	Nzega	Wela	Malilita	6	Mwatenge 'B'	UNKNOWN	Shallow well	4.10788	33.31782	1164	2008	na	na	Tanira	na	2008	na	24	Unfunctionning	na	na	na	na	na	na
HP-669	Nzega	Wela	Mwansambo	1	Mwansambo 'A'	UNKNOWN	Shallow well	4.06328	33.34555	1122	2008	na	na	Tanira	na	2008	na	24	Unfunctionning	na	na	na	na	na	na
HP-670	Nzega	Wela	Wela	3	Igombwe	UNKNOWN	Deep well	4.1546	33.29237	1181	2005	na	na	Afridev	na	2005	na	24	Functionning	Clear	Salty	29.6	7.3	1.17	155.8
HP-671	Nzega	Wela	Wela	3	Kityelo	UNKNOWN	Shallow well	4.14258	33.29978	1195	2005	na	na	Afridev	na	2005	na	na	Unfunctionning	na	na	na	na	na	na
HP-672	Nzega	Wela	Wela	3	Wela Kati	UNKNOWN	Deep well	4.15594	33.30083	1191	2005	na	na	Indian Mk-II	na	2005	na	24	Functionning	Clear	Salty	29.4	6.8	0.8	50.3
HP-673	Sikonge	Chabutwa	Chabutwa	8	Chabutwa	na	Shallow well	5.6792	32.74782	1138	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Milky	Tasteless	25.6	5.39	0.037	85.3
HP-674	Sikonge	Chabutwa	Chabutwa	8	Chabutwa	na	Shallow well	5.68866	32.75495	1134	2003	2.6	na	Indian Mk-II	na	2003	na	na	Unfunctionning	Clear	Tasteless	25.7	4.51	0.031	17.39
HP-675	Sikonge	Chabutwa	Chabutwa	8	Chabutwa	na	Shallow well	5.69371	32.75464	1133	2003	6.8	na	Tanira	na	2003	na	na	Unfunctionning	Milky	Tasteless	25.6	6.23	0.176	85.5
HP-676	Sikonge	Chabutwa	Chabutwa	8	Chabutwa	na	Deep well	5.69301	32.75059	1134	2001	na	na	Tanira	na	2006	na	na	Functionning	Clear	Salty	26.2	6.63	0.23	51.8
HP-677	Sikonge	Chabutwa	Chabutwa	8	Chabutwa	na	Shallow well	5.6912	32.74944	1134	1974	6.8	na	Grundfos	na	1974	na	na	Unfunctionning	Clear	Salty	25.2	4.4	0.03	34.6
HP-678	Sikonge	Chabutwa	Chabutwa	8	Kenki	365	Shallow well	5.69226	32.72356	1123	2005	3	na	Tanira	na	2005	na	na	Stolen	Milky	Tasteless	25.3	5.76	0.045	45.9
HP-679	Sikonge	Chabutwa	Chabutwa	8	Kenki	100	Shallow well	5.69837	32.7202	1127	2001	2.88	na	Indian Mk-II	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-680	Sikonge	Chabutwa	Chabutwa	8	Kenki	na	Deep well	5.67894	32.74533	1132	2001	na	na	Indian Mk-III	na	2001	na	na	Unfunctionning	na	na	na	na	na	na

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HP-681	Sikonge	Chabutwa	Kabanga	2	Chang'ombe	na	Shallow well	5.79092	32.79138	1134	2003	4.6	na	Tanira	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-682	Sikonge	Chabutwa	Kabanga	2	Kabanga	na	Shallow well	5.7797	32.77379	1135	2001	6.65	na	Indian Mk-III	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-683	Sikonge	Chabutwa	Kikungu	3	Kikungu Kusini	na	Shallow well	5.72243	32.77852	1141	2003	na	na	Tanira	na	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-684	Sikonge	Chabutwa	Kikungu	3	Kikungu Kusini	na	Shallow well	5.71747	32.76867	1131	2008	na	na	Indian Mk-II	na	2008	na	na	Functionning	Clear	Tasteless	27.7	5.79	0.062	78.5
HP-685	Sikonge	Chabutwa	Kikungu	3	Kikungu Mashariki	na	Deep well	5.70901	32.77661	1135	2001	na	na	Indian Mk-II	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-686	Sikonge	Chabutwa	Kipanga Mlimani	4	Kipanga Kati	na	Shallow well	5.70512	32.82202	1151	2004	na	na	Tanira	na	2004	na	na	Unfunctionning	na	na	na	na	na	na
HP-687	Sikonge	Chabutwa	Kipanga Mlimani	4	Kipanga Mlimani	na	Shallow well	5.72068	32.8257	1146	2004	na	na	Tanira	na	2004	na	na	Unfunctionning	na	na	na	na	na	na
HP-688	Sikonge	Chabutwa	Kipanga Mlimani	4	Kipanga Mlimani	na	Shallow well	5.73528	32.82583	1118	2004	na	na	Tanira	na	2004	na	na	Unfunctionning	na	na	na	na	na	na
HP-689	Sikonge	Chabutwa	Kipanga Mlimani	4	Ulyadulu	na	Shallow well	5.69668	32.85372	1140	2004	na	na	Tanira	na	2004	na	na	Unfunctionning	na	na	na	na	na	na
HP-690	Sikonge	Chabutwa	Mitwigu	2	Kawale	na	Shallow well	5.72594	32.73202	1125	2008	na	na	Indian Mk-II	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-691	Sikonge	Chabutwa	Mitwigu	2	Mitwigu	na	Shallow well	5.73695	32.69795	1113	2001	na	na	Indian Mk-II	na	2001	na	24	Functionning	Clear	Tasteless	26	5.57	0.049	50.9
HP-692	Sikonge	Igigwa	Igigwa	4	Barazani	na	Deep well	5.37894	32.79102	1200	2009	na	na	Indian Mk-II	na	2009	na	24	Functionning	Clear	Salty	27.2	6.4	0.22	127
HP-693	Sikonge	Igigwa	Igigwa	4	Barazani	na	Shallow well	5.38436	32.79953	1204	2005	na	na	no pump	na	2005	na	na	Pump Removed	na	na	na	na	na	na
HP-694	Sikonge	Igigwa	Igigwa	4	Nyakahunga	na	Deep well	5.41805	32.78496	1236	2009	na	na	Indian Mk-III	na	2009	na	24	Functionning	Milky	Salty	24.7	6.5	0.09	12.1
HP-695	Sikonge	Igigwa	Igigwa	4	Wankolongo	na	Deep well	5.3508	32.7782	1167	2009	na	na	Indian Mk-III	na	2009	na	24	Functionning	Clear	Salty	27.3	6.2	0.159	60.3
HP-696	Sikonge	Igigwa	Lufwisi	2	Lufwisi	na	Shallow well	5.5167	32.80321	1167	2008	na	na	Tanira	na	2008	na	na	Unfunctionning	Milky	Testless	26.4	6.7	0.15	26.4
HP-697	Sikonge	Igigwa	Lufwisi	2	Lufwisi	na	Shallow well	5.51225	32.80832	1177	2008	na	na	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-698	Sikonge	Ipole	Idekamiso	2	Idekamiso	na	Shallow well	5.93668	32.77147	1128	2007	na	na	Tanira	na	2007	na	24	Functionning	Clear	Tasteless	26	5.33	0.066	58.3
HP-699	Sikonge	Ipole	Idekamiso	2	Idekamiso	na	Shallow well	5.94907	32.7756	1125	2007	na	na	no pump	na	2007	na	na	Pump Removed	na	na	na	na	na	na
HP-700	Sikonge	Ipole	Ipole	1	Ipole Mashariki	na	Shallow well	5.78673	32.73599	1148	2007	na	na	Tanira	na	2007	na	12	Functionning	Clear	Tasteless	25.5	5.94	0.35	13.9
HP-701	Sikonge	Ipole	Msuva	1	Msuva	na	Shallow well	5.83813	32.74699	1111	2008	na	na	Tanira	na	2008	na	na	Functionning	Clear	Salty	25.6	5.68	0.178	14.36
HP-702	Sikonge	Ipole	Udongo	2	Udongo Kahakazini	na	Shallow well	5.76442	32.73519	1125	2005	na	na	Tanira	na	2005	na	24	Functionning	Clear	Tasteless	26.3	5.31	0.08	5.22
HP-703	Sikonge	Ipole	Udongo	2	Udongo Mashariki	na	Shallow well	5.76645	32.73895	1124	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Tasteless	25.8	4.67	0.0241	7.83
HP-704	Sikonge	Kiloleli	Mtakuja	5	Magunga	na	Shallow well	5.89091	32.88958	1141	2008	na	na	Tanira	na	2008	na	24	Functionning	Milky	Salty	27.3	6.14	0.09	16.09
HP-705	Sikonge	Kiloleli	Mtakuja	5	Mtakuja	na	Shallow well	5.91202	32.92888	1133	2006	na	na	Tanira	na	2006	na	na	Unfunctionning	Milky	Tasteless	29.9	5.91	0.045	8.05
HP-706	Sikonge	Kiloleli	Mtakuja	5	Mtakuja	na	Shallow well	5.91225	32.91544	1135	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Salty	27.4	5.59	0.067	12.81
HP-707	Sikonge	Kiloleli	Mtakuja	5	Songambele	na	Shallow well	5.90014	32.92755	1135	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Slightly Salty	28.3	5.53	0.07	13.78
HP-708	Sikonge	Kiloleli	Mtakuja	5	Tulieni	na	Shallow well	5.9083	32.95834	1135	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	C	Salty	29	5.4	0.189	8.03
HP-709	Sikonge	Kiloli	Majojoro	4	Majojoro	na	Shallow well	6.9161	33.4618	1238	2008	na	na	no pump	na	2008	na	na	Pump Removed	na	na	na	na	na	na
HP-710	Sikonge	Kiloli	Majojoro	4	Majojoro	na	Shallow well	6.91683	33.46734	1221	1999	na	na	Kangaroo	na	1999	na	na	Stolen	na	na	na	na	na	na
HP-711	Sikonge	Kiloli	Majojoro	4	Majojoro	na	Shallow well	6.91745	33.46796	1226	2004	2	na	Tanira	na	2004	na	na	Unfunctionning	na	na	na	na	na	na
HP-712	Sikonge	Kiloli	Majojoro	4	Mkongolo	na	Shallow well	6.89777	33.4766	1224	2008	na	na	Indian Mk-II	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-713	Sikonge	Kiloli	Mwitiko	3	Mwitiko	na	Shallow well	6.83329	33.36206	1210	2008	3.3	na	Tanira	na	2004	na	na	Unfunctionning	Clear	Salty	23.6	6.74	0.038	8.18
HP-714	Sikonge	Kiloli	Mwitiko	3	Mwitiko	na	Shallow well	6.83342	33.3622	1208	2008	3.1	na	Tanira	na	2008	na	na	Unfunctionning	Clear	Salty	22.9	6.92	0.07	5.77
HP-715	Sikonge	Kiloli	Mwitiko	3	Mwitiko	na	Shallow well	6.82129	33.363	1202	2008	na	na	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-716	Sikonge	Kipanga	Lembeli	4	Lembeli	na	Deep well	5.83857	32.90658	1149	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Tasteless	27.8	7.09	0.41	55.5
HP-717	Sikonge	Kipanga	Lembeli	4	Lembeli	na	Shallow well	5.8492	32.91786	1153	2008	na	na	Tanira	na	2008	na	24	Functionning	Clear	Tasteless	25.9	4.95	0.022	8.09
HP-718	Sikonge	Kipanga	Lembeli	4	Lembeli	na	Deep well	5.84913	32.91815	1148	1974/75	na	na	no pump	na	1974/75	na	na	Pump Removed	na	na	na	na	na	na
HP-719	Sikonge	Kipanga	Lembeli	4	Lembeli	na	Deep well	5.84253	32.90704	1146	1974/75	na	na	no pump	na	1974/75	na	na	Pump Removed	na	na	na	na	na	na
HP-720	Sikonge	Kipanga	Ukondamoyo	1	Ukondomoyo	na	Deep well	5.80052	32.88276	1147	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Salty	27.7	6.58	0.31	89.9

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-721	Sikonge	Kipanga	Urafiki	1	Uswahilini	na	Shallow well	5.70104	32.90481	1168	2008	3.8	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Salty	26.3	6.81	0.35	23.8
HP-722	Sikonge	Kipanga	Usunga	2	Kilombele	na	Shallow well	5.70752	32.94578	1188	2002	4.3	na	Indian Mk-II	na	2002	na	na	Unfunctionning	Clear	Salty	27.4	6.85	0.151	36.6
HP-723	Sikonge	Kipanga	Usunga	2	Makumbusho	na	Shallow well	5.70587	32.93696	1186	2003	4.6	na	Kangaroo	na	2003	na	na	Unfunctionning	Clear	Salty	25.9	7.25	0.3	67.7
HP-724	Sikonge	Kipili	Kilumbi	5	Mkola No. 4	na	Deep well	6.29622	33.84735	1406	2009	na	na	Afridev	na	2009	na	12	Functionning	Clear	Salty	25.7	6.7	0.193	78.1
HP-725	Sikonge	Kipili	Kilumbi	5	Mkola No. 4	na	Shallow well	6.29604	33.84573	1412	2006	na	na	Tanira	na	2006	na	na	Unfunctionning	na	na	na	na	na	na
HP-726	Sikonge	Kipili	Kilumbi	5	Mkola No. 4	na	Shallow well	6.29771	33.84673	1398	2006	na	na	Tanira	na	2006	na	12	Functionning	Milky	Salty	26	6.88	0.08	15.5
HP-727	Sikonge	Kipili	Kilumbi	5	Mtendeni	na	Shallow well	6.32026	33.84286	1398	2006	na	na	Tanira	na	2006	na	na	Unfunctionning	na	na	na	na	na	na
HP-728	Sikonge	Kipili	Kilumbi	5	Uzumbule Na. 3	na	Shallow well	6.27172	33.82814	1421	2006	na	na	Tanira	na	2006	na	na	Unfunctionning	na	na	na	na	na	na
HP-729	Sikonge	Kipili	Kiyombo	1	Mapandapande	na	Shallow well	6.09511	33.9545	1505	2008	na	na	Indian Mk-III	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-730	Sikonge	Kipili	Zugimlole	5	Chang'ombe Na.5	na	Shallow well	6.07581	33.93358	1539	2005	na	na	Tanira	na	2005	na	na	Unfunctionning	na	na	na	na	na	na
HP-731	Sikonge	Kipili	Zugimlole	5	Chang'ombe Na.5	na	Shallow well	6.07205	33.93094	1518	1996	na	na	no pump	na	1996	na	na	Pump Removed	na	na	na	na	na	na
HP-732	Sikonge	Kipili	Zugimlole	5	Chang'ombe Na.5	na	Shallow well	6.07116	33.92957	1518	2008	3.4	na	no pump	na	2008	na	24	Pump Removed	Clear	Tasteless	23.9	5.69	0.072	8.25
HP-733	Sikonge	Kipili	Zugimlole	5	Mkwese	na	Shallow well	6.04757	33.91832	1542	2008	3.1	na	Indian Mk-II	na	2008	na	na	Unfunctionning	Clear	Tasteless	23	4.55	0.021	10.82
HP-734	Sikonge	Kipili	Zugimlole	5	Tupendane	na	Shallow well	6.07854	33.9077	1504	2008	na	na	Indian Mk-III	na	2008	na	24	Functionning	Clear	Tasteless	24	5.64	0.044	6.77
HP-735	Sikonge	Kitunda	Mgambo	9	Kamata Na.5	na	Shallow well	6.88206	33.25557	1210	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Salty	24.5	5.63	0.041	11.5
HP-736	Sikonge	Kitunda	Mgambo	9	Kapumpa	na	Shallow well	6.8046	33.26086	1196	2008	na	na	Indian Mk-II	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-737	Sikonge	Kitunda	Mgambo	9	Kapumpa	na	Shallow well	6.80532	33.27032	1217	2004	na	na	Tanira	na	2004	na	na	Unfunctionning	na	na	na	na	na	na
HP-738	Sikonge	Kitunda	Mgambo	9	Lukula	na	Shallow well	6.84566	33.25003	1176	2008	2.4	na	Indian Mk-II	na	2008	na	na	Unfunctionning	Milky	Salty	24.8	5.95	0.024	14.4
HP-739	Sikonge	Kitunda	Mgambo	9	Lukula	na	Shallow well	6.84384	33.2563	1188	2008	2.7	na	Indian Mk-II	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-740	Sikonge	Kitunda	Mgambo	9	Lukula	na	Shallow well	6.84291	33.25735	1201	2006	2.4	na	Tanira	na	2007	na	na	Unfunctionning	na	na	na	na	na	na
HP-741	Sikonge	Kitunda	Mgambo	9	Lukula	na	Shallow well	6.84213	33.25823	1206	2004	2.2	na	Tanira	na	2004	na	24	Unfunctionning	na	na	na	na	na	na
HP-742	Sikonge	Kitunda	Mgambo	9	Lukula	na	Shallow well	6.8336	33.2515	1181	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Tasteless	26	5.9	0.024	10.66
HP-743	Sikonge	Kitunda	Mgambo	9	Lukula	na	Shallow well	6.8345	33.25351	1178	1980	3.4	na	Grundfos	na	1980	na	na	Unfunctionning	na	na	na	na	na	na
HP-744	Sikonge	Kitunda	Mwenge	5	Lamboni	na	Shallow well	6.86078	33.23371	1210	2008	na	na	Indian Mk-II	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-745	Sikonge	Kitunda	Mwenge	5	Mgembe	na	Shallow well	6.84765	33.22717	1203	2008	na	na	Indian Mk-II	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-746	Sikonge	Kitunda	Mwenge	5	Mission	na	Shallow well	6.80405	33.20034	1186	2008	na	na	Indian Mk-II	na	2008	na	na	Functionning	Milky	Salty	27	6.86	0.17	35
HP-747	Sikonge	Kitunda	Mwenge	5	Mkola	na	Shallow well	6.84941	33.20837	1204	2008	3.9	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Salty	26.7	6.23	0.075	15.55
HP-748	Sikonge	Kitunda	Mwenge	5	Mkola	na	Shallow well	6.84122	33.21316	1190	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Salty	25.7	6.6	0.143	31.5
HP-749	Sikonge	Pangale	Ibaya	1	Ibaya	na	Shallow well	5.3158	32.69873	1154	2008	na	na	Indian Mk-II	na	2008	na	na	Unfunctionning	Milky	Salty	24.7	6.99	0.4	21.2
HP-750	Sikonge	Pangale	Mpombwe	1	Mpombwe	na	Shallow well	5.35745	32.69572	1152	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Tasteless	27	5.5	0.052	10.36
HP-751	Sikonge	Pangale	Pangale	3	Loge	na	Shallow well	5.30291	32.73691	1146	2009	na	na	Indian Mk-III	na	2009	na	24	Functionning	Clear	Tasteless	27	6.3	0.22	18.83
HP-752	Sikonge	Pangale	Pangale	3	Pangale	na	Shallow well	5.28629	32.71206	1151	2008	na	na	Tanira	na	2008	na	24	Functionning	Clear	Tasteless	26.3	6.6	0.03	8.13
HP-753	Sikonge	Pangale	Pangale	3	Pangale	na	Shallow well	5.27302	32.71783	1142	2008	na	na	Indian Mk-III	na	2008	na	24	Functionning	Clear	Tasteless	27	6.6	0.98	60.3
HP-754	Sikonge	Pangale	Usesula	2	Kapalata	na	Shallow well	5.25328	32.70053	1143	1974	na	na	Tanira	na	1974	na	na	Unfunctionning	na	na	na	na	na	na
HP-755	Sikonge	Pangale	Usesula	2	Usesula	na	Shallow well	5.24707	32.67999	1151	2008	na	na	Indian Mk-III	na	2008	na	24	Functionning	Clear	Salty	26.8	6.24	0.08	34.4
HP-756	Sikonge	Sikonge	Kisanga	2	Chang'ombe	na	Deep well	5.55944	32.81601	1176	2009	na	na	Indian Mk-III	na	2009	na	24	Functionning	Clear	Salty	27.7	6.6	0.36	88.3
HP-757	Sikonge	Sikonge	Kisanga	2	Kisanga Kati	na	Deep well	5.55908	32.84062	1216	2009	na	na	Indian Mk-II	na	2009	na	24	Functionning	Clear	Testless	26.6	6.6	0.185	164
HP-758	Sikonge	Sikonge	Mkolye	4	Isunda	na	Shallow well	5.54793	32.67338	1136	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Tasteless	27.8	5.96	0.05	27.6
HP-759	Sikonge	Sikonge	Mkolye	4	Itunda	na	Shallow well	5.5628	32.69639	1147	2008	na	na	Tanira	na	2008	na	24	Functionning	Clear	Tasteless	27.4	5.5	0.03	11.5
HP-760	Sikonge	Sikonge	Mkolye	4	Ng'olohano	na	Shallow well	5.56615	32.66317	1129	2003	2	na	Tanira	na	2003	na	na	Unfunctionning	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-761	Sikonge	Sikonge	Mkolye	4	Ng'olohano	na	Shallow well	5.55532	32.65146	1119	2008	na	na	Indian Mk-II	na	2008	na	na	Functionning	Clear	Tasteless	27.8	5.6	0.058	6.3
HP-762	Sikonge	Sikonge	Miogolo	2	Miogolo	na	Shallow well	5.58729	32.72963	1150	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Salty	26.9	6.4	0.25	27.5
HP-763	Sikonge	Sikonge	Miogolo	2	Miogolo	na	Shallow well	5.58403	32.72175	1150	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Salty	26.9	6.4	0.24	25.5
HP-764	Sikonge	Sikonge	Sikonge	19	Isungliunde	na	Shallow well	5.60228	32.7403	1161	2002	7.2	na	Indian Mk-II	na	2002	na	na	Unfunctionning	na	na	na	na	na	na
HP-765	Sikonge	Sikonge	Sikonge	19	Iyombakuzova	na	Shallow well	5.6437	32.78474	1138	2007	na	na	Tanira	na	2007	na	24	Functionning	Milky	Tasteless	27.5	5.4	0.061	11.65
HP-766	Sikonge	Sikonge	Sikonge	19	Iyombakuzova	na	Shallow well	5.64342	32.77489	1140	2007	na	na	Tanira	na	2007	na	24	Functionning	Milky	Tasteless	29.6	6.2	0.22	6.34
HP-767	Sikonge	Sikonge	Sikonge	19	Kangoge	na	Shallow well	5.62874	32.72774	1117	2006	na	na	Tanira	na	2006	na	24	Functionning	Milky	Salty	25.3	5.9	0.22	14.54
HP-768	Sikonge	Sikonge	Sikonge	19	Kangoge	na	Shallow well	5.63173	32.72877	1117	1989	na	na	Grundfos	na	1989	na	na	Unfunctionning	Clear	Tasteless	25.1	7.6	0.077	5.74
HP-769	Sikonge	Sikonge	Sikonge	19	Mbirani	na	Shallow well	5.61156	32.74553	1167	1983	na	na	Grundfos	na	1983	na	na	Unfunctionning	na	na	na	na	na	na
HP-770	Sikonge	Sikonge	Sikonge	19	Mbirani	na	Shallow well	5.6006	32.74526	1163	1984	na	na	Grundfos	na	1984	na	na	Unfunctionning	na	na	na	na	na	na
HP-771	Sikonge	Sikonge	Sikonge	19	Mbirani	na	Shallow well	5.60816	32.75003	1161	2009	na	na	Indian Mk-II	na	2009	na	na	Functionning	Clear	Salty	26.2	6.53	0.25	46.2
HP-772	Sikonge	Sikonge	Sikonge	19	Mbirani	na	Shallow well	5.61491	32.75217	1151	2004	na	na	Indian Mk-II	na	2004	na	24	Functionning	Clear	Salty	24.2	6.2	0.156	47.8
HP-773	Sikonge	Sikonge	Sikonge	19	Mbirani	na	Shallow well	5.61673	32.7522	1152	2002	na	na	Indian Mk-II	na	2002	na	na	Unfunctionning	na	na	na	na	na	na
HP-774	Sikonge	Sikonge	Sikonge	19	Ukanga	na	Shallow well	5.61611	32.74485	1150	1983	na	na	Grundfos	na	1983	na	na	Unfunctionning	na	na	na	na	na	na
HP-775	Sikonge	Sikonge	Sikonge	19	Ukanga	na	Shallow well	5.61347	32.73171	1134	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Salty	25	6.1	0.32	20.1
HP-776	Sikonge	Sikonge	Sikonge	19	Ukanga	na	Shallow well	5.61133	32.70323	1120	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Tasteless	25.3	6	0.043	8.76
HP-777	Sikonge	Sikonge	Sikonge	19	Uliwansimba	na	Shallow well	5.62518	32.80028	1137	2007	na	na	Tanira	na	2007	na	na	Unfunctionning	na	na	na	na	na	na
HP-778	Sikonge	Sikonge	Sikonge	19	Usega	na	Shallow well	5.63564	32.76577	1162	1984	na	na	Kangaroo	na	1984	na	na	Unfunctionning	na	na	na	na	na	na
HP-779	Sikonge	Sikonge	Sikonge	19	Usega	na	Shallow well	5.6306	32.74751	1130	2003	na	na	Tanira	na	2003	na	na	Functionning	Clear	Salty	24.4	6.94	0.42	65.9
HP-780	Sikonge	Sikonge	Sikonge	19	Usupilo A	na	Shallow well	5.62035	32.77251	1146	2002	na	na	Indian Mk-II	na	2002	na	na	Unfunctionning	na	na	na	na	na	na
HP-781	Sikonge	Sikonge	Sikonge	19	Usupilo A	na	Shallow well	5.61808	32.76138	1148	2007	na	na	Tanira	na	2007	na	24	Functionning	Clear	Tasteless	27.6	5.9	0.063	13.53
HP-782	Sikonge	Sikonge	Sikonge	19	Usupilo B	na	Shallow well	5.63034	32.75115	1146	1984	na	na	Kangaroo	na	1984	na	24	Functionning	Clear	Tasteless	26	6.13	0.159	49.5
HP-783	Sikonge	Tutuo	Mitowo	3	Kakulungu/Timkeni	na	Shallow well	5.48874	32.60207	1114	2008	na	na	Tanira	na	2008	na	24	Functionning	Clear	Salty	25.5	5.51	0.14	6.6
HP-784	Sikonge	Tutuo	Mitowo	3	Mitowo Milimani	na	Shallow well	5.51299	32.5912	1119	2008	na	na	Indian Mk-III	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-785	Sikonge	Tutuo	Mitowo	3	Mitowo Shuleni	na	Shallow well	5.49636	32.62205	1120	2008	na	na	Indian Mk-II	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-786	Sikonge	Tutuo	Mole	5	Kiloleni A	na	Shallow well	5.44076	32.62616	1152	2004	na	na	Kangaroo	na	2004	na	na	Unfunctionning	na	na	na	na	na	na
HP-787	Sikonge	Tutuo	Mole	5	Kiloleni A	na	Shallow well	5.45022	32.62904	1139	2008	na	na	Tanira	na	2008	na	24	Functionning	Clear	Tasteless	27.4	5.9	0.018	11.66
HP-788	Sikonge	Tutuo	Mole	5	Kiloleni A	na	Shallow well	5.44948	32.62112	1143	2003	na	na	Indian Mk-III	na	2003	na	24	Functionning	Clear	Tasteless	25.8	5.2	0.04	7.2
HP-789	Sikonge	Tutuo	Mole	5	Kiloleni B	na	Shallow well	5.42941	32.61792	1143	2008	na	na	Indian Mk-II	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-790	Sikonge	Tutuo	Mole	5	Utyatya	na	Shallow well	5.45127	32.61186	1143	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Clear	Tasteless	26.5	5.21	0.028	6.3
HP-791	Sikonge	Tutuo	Muungano	2	Kabanga A	na	Shallow well	5.47459	32.66139	1136	2008	na	na	Indian Mk-III	na	2008	na	24	Functionning	Clear	Tasteless	27.4	5.73	0.067	6.6
HP-792	Sikonge	Tutuo	Muungano	2	Ulula	na	Shallow well	5.50352	32.65132	1123	2008	na	na	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-793	Sikonge	Tutuo	Tutuo	7	Lehani	na	Shallow well	5.50894	32.6911	1134	2007	na	na	Tanira	na	2007	na	na	Functionning	Clear	Tasteless	27.7	6.1	0.07	5.86
HP-794	Sikonge	Tutuo	Tutuo	7	Madukani	na	Shallow well	5.49073	32.67521	1129	2007	na	na	Tanira	na	2007	na	na	Unfunctionning	na	na	na	na	na	na
HP-795	Sikonge	Tutuo	Tutuo	7	Madukani	na	Shallow well	5.48787	32.67412	1137	na	na	na	Grundfos	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-796	Sikonge	Tutuo	Tutuo	7	Madukani	na	Shallow well	5.48274	32.67671	1142	2008	na	na	Indian Mk-III	na	na	na	na	Unfunctionning	Clear	Tasteless	28.9	6.6	0.09	10.6
HP-797	Sikonge	Tutuo	Tutuo	7	Madukani	na	Shallow well	5.48828	32.6765	1140	2008	na	na	Indian Mk-III	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-798	Sikonge	Tutuo	Tutuo	7	Tutuo Shuleni	na	Shallow well	5.49795	32.67546	1122	2008	na	na	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-799	Sikonge	Tutuo	Tutuo	7	Tutuo Shuleni	na	Shallow well	5.49292	32.67781	1134	2008	na	na	Indian Mk-II	na	2008	na	na	Functionning	Milky	Tasteless	28.7	6.3	0.34	20
HP-800	Tabora Rural	Bukumbi	Ishihimulwa	2	Ishihimulwa	3012	Deep well	4.39848	32.51017	1187	2001	na	40	Afridev	na	2002	na	na	Functionning	Clear	Salty	26.6	6.51	0.4	32.5

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-801	Tabora Rural	Bukumbi	Ishihimulwa	2	Ishihimulwa	3012	Deep well	4.39187	32.51691	1179	2001	na	40	Afridev	na	2002	na	na	Unfunctionning	na	na	na	na	na	na
HP-802	Tabora Rural	Goweko	Kimungi	1	Kimungi Senta	na	Shallow well	5.35627	33.18474	1189	1998	na	na	Indian Mk-II	na	1998	na	na	Unfunctionning	na	na	na	na	na	na
HP-803	Tabora Rural	Goweko	Nsololo	5	Kanala	na	Shallow well	5.35232	33.13509	1181	1997	na	na	Indian Mk-II	na	1997	na	10	Functionning	Clear	Salty	26	5.56	0.4	21.1
HP-804	Tabora Rural	Goweko	Nsololo	5	Kanala	na	Shallow well	5.34255	33.14063	1059	1997	na	na	Indian Mk-II	na	1997	na	24	Functionning	Clear	Tasteless	26.2	5.7	0.38	3.92
HP-805	Tabora Rural	Goweko	Nsololo	5	Kanala	na	Deep well	5.37124	33.12229	1191	na	na	na	Tanira	na	1999	na	24	Functionning	Milky	Tasteless	26.8	5.8	0.7	40.4
HP-806	Tabora Rural	Goweko	Nsololo	5	Ngulumwa	na	Shallow well	5.40457	33.14313	1111	1997	na	na	Indian Mk-II	na	1997	na	24	Functionning	Clear	Salty	28.4	4.93	0.42	54.6
HP-807	Tabora Rural	Goweko	Nsololo	5	Shekela	na	Deep well	5.34433	33.14684	1193	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-808	Tabora Rural	Goweko	Tambukareli	3	Nsololo Shuleni	na	Shallow well	5.33414	33.14961	1173	1998	na	na	Afridev	na	1998	na	na	Unfunctionning	na	na	na	na	na	na
HP-809	Tabora Rural	Goweko	Tambukareli	3	Nsololo Shuleni	na	Shallow well	5.3282	33.15082	1171	1998	na	na	Afridev	na	1998	na	na	Unfunctionning	na	na	na	na	na	na
HP-810	Tabora Rural	Goweko	Tambukareli	3	Nsololo Shuleni	na	Shallow well	5.3257	33.14968	1201	1998	na	na	Afridev	na	1998	na	na	Unfunctionning	na	na	na	na	na	na
HP-811	Tabora Rural	Ibiri	Ibiri	11	Kategile	na	Shallow well	4.92688	32.59551	1125	1999	na	na	Indian Mk-II	na	1999	na	24	Functionning	Clear	Tasteless	28.3	6.4	0.2	20.8
HP-812	Tabora Rural	Ibiri	Ibiri	11	Kategile	na	Shallow well	4.92748	32.60189	1126	1999	na	na	Indian Mk-II	na	1999	na	24	Functionning	Clear	Salty	25.9	6.6	0.5	27.9
HP-813	Tabora Rural	Ibiri	Ibiri	11	Kategile	na	Shallow well	4.92267	32.60603	1146	1999	na	na	Indian Mk-II	na	1997	na	na	Unfunctionning	na	na	na	na	na	na
HP-814	Tabora Rural	Ibiri	Ibiri	11	Kategile	na	Shallow well	4.91575	32.59749	1145	1999	na	na	Indian Mk-II	na	2000	na	24	Functionning	Clear	Salty	26.5	6.78	1.9	6.4
HP-815	Tabora Rural	Ibiri	Ibiri	11	Makunguwe	na	Shallow well	4.88842	32.61784	1046	1999	na	na	Tanira	na	1997	na	na	Unfunctionning	na	na	na	na	na	na
HP-816	Tabora Rural	Ibiri	Ibiri	11	Makunguwe	na	Shallow well	4.89311	32.59374	1131	1999	na	na	Indian Mk-II	na	1999	na	na	Functionning	Milky	Tasteless	29.7	5.5	0.21	2
HP-817	Tabora Rural	Ibiri	Ibiri	11	Mpungu	na	Shallow well	4.9465	32.57448	1155	2000	na	na	Tanira	na	2000	na	na	Unfunctionning	na	na	na	na	na	na
HP-818	Tabora Rural	Ibiri	Ibiri	11	Mpungu	na	Shallow well	4.91426	32.56816	1173	2000	na	na	Indian Mk-II	na	2000	na	24	Functionning	Clear	Tasteless	26.1	5.6	0.147	113.2
HP-819	Tabora Rural	Ibiri	Ibiri	11	Mpungu	na	Shallow well	4.91034	32.56679	1187	1999	na	na	Indian Mk-II	na	2000	na	na	Unfunctionning	na	na	na	na	na	na
HP-820	Tabora Rural	Ibiri	Ibiri	11	Mpungu	na	Shallow well	4.91308	32.57832	1175	1999	na	na	Afridev	na	2000	na	24	Functionning	Clear	Tasteless	28	6.97	0.9	96.3
HP-821	Tabora Rural	Ibiri	Ibiri	11	Mpungu	na	Shallow well	4.91646	32.59125	1186	1999	na	na	Afridev	na	2000	na	24	Functionning	Milky	Tasteless	26.6	6.5	0.35	55
HP-822	Tabora Rural	Ibiri	Inonelwa	6	Inonelwa	na	Shallow well	4.94985	32.63126	1154	1998	na	na	Indian Mk-II	na	1999	na	na	Unfunctionning	na	na	na	na	na	na
HP-823	Tabora Rural	Ibiri	Inonelwa	6	Migombani	na	Shallow well	4.94683	32.62439	1167	1999	na	na	Afridev	na	1999	na	24	Functionning	Clear	Tasteless	26.8	5.49	0.6	123.8
HP-824	Tabora Rural	Ibiri	Inonelwa	6	Migombani	na	Shallow well	4.93399	32.62689	1184	1998	na	na	Afridev	na	1999	na	12	Functionning	Clear	Salty	29.5	5.58	0.6	87.5
HP-825	Tabora Rural	Ibiri	Inonelwa	6	Ukalwa	200	Shallow well	4.95766	32.62019	1092	1999	na	na	Afridev	na	2000	na	24	Functionning	Clear	Tasteless	27.6	6.08	0.115	79.5
HP-826	Tabora Rural	Ibiri	Inonelwa	6	Ukalwa	200	Shallow well	4.96397	32.60551	1126	1998	na	na	Afridev	na	2000	na	24	Functionning	Clear	Tasteless	27.8	5.55	0.6	27.3
HP-827	Tabora Rural	Ibiri	Inonelwa	6	Ukalwa	400	Shallow well	4.95414	32.62671	1149	1999	na	na	Tanira	na	2000	na	24	Functionning	Clear	Tasteless	28	5.16	0.6	59.1
HP-828	Tabora Rural	Ibiri	Isimu	4	Isimu	na	Shallow well	4.88006	32.57449	1084	na	na	na	Afridev	na	2009	na	24	Unfunctionning	Clear	Salty	26.7	7.2	0.64	30.4
HP-829	Tabora Rural	Ibiri	Isimu	4	Isimu	na	Shallow well	4.87865	32.58547	1102	na	na	na	Afridev	na	2009	na	24	Functionning	Mudy	Salty	29.3	7.02	0.57	38.12
HP-830	Tabora Rural	Ibiri	Isimu	4	Isimu	na	Shallow well	4.87176	32.56978	1121	na	na	na	Afridev	na	2009	na	24	Functionning	Mudy	Salty	26.5	7.37	0.8	15.95
HP-831	Tabora Rural	Ibiri	Isimu	4	Usumau	na	Shallow well	4.85284	32.56659	1083	na	na	na	Afridev	na	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-832	Tabora Rural	Ibiri	Kilungu	5	Kasega Kichangani	80	Shallow well	4.81482	32.51845	1119	na	na	na	Afridev	na	2009	na	24	Functionning	Clear	Tasteless	29.9	5.86	0.39	7.66
HP-833	Tabora Rural	Ibiri	Kilungu	5	Kasega Kichangani	240	Shallow well	4.80172	32.51767	1133	na	na	na	Afridev	na	2009	na	24	Functionning	Clear	Tasteless	26.9	6.05	0.24	10.02
HP-834	Tabora Rural	Ibiri	Kilungu	5	Kilungu	200	Shallow well	4.83107	32.53566	1139	na	na	na	Afridev	na	2009	na	24	Functionning	Clear	Tasteless	26.4	6.82	0.91	19.04
HP-835	Tabora Rural	Ibiri	Kilungu	5	Kilungu	250	Shallow well	4.82898	32.51456	1134	na	na	na	Afridev	na	2009	na	24	Functionning	Clear	Tasteless	26.5	6.25	0.51	17.32
HP-836	Tabora Rural	Ibiri	Kilungu	5	Kilungu	250	Shallow well	4.84154	32.52047	1147	na	na	na	Afridev	na	2009	na	24	Functionning	Clear	Tasteless	24.1	6.04	0.2	8.24
HP-837	Tabora Rural	Ibiri	Mwakashindye	4	Kininga	na	Shallow well	4.8246	32.64205	1162	1999	na	na	Afridev	na	2009	na	24	Functionning	Milky	Tasteless	26.7	6.25	0.91	74.2
HP-838	Tabora Rural	Ibiri	Mwakashindye	4	Mnyega	na	Shallow well	4.8147	32.58088	1187	1998	na	na	Afridev	na	2009	na	24	Functionning	Clear	Salty	26.1	6.03	0.27	82
HP-839	Tabora Rural	Ibiri	Mwakashindye	4	Mwakashindye	na	Shallow well	4.83376	32.61873	1138	1998	na	na	Afridev	na	2009	na	24	Functionning	Clear	Tasteless	27.3	6.91	0.4	70.9
HP-840	Tabora Rural	Ibiri	Mwakashindye	4	Mwakashindye	na	Shallow well	4.81649	32.62473	1044	1998	na	na	Afridev	na	2009	na	24	Functionning	Clear	Tasteless	27.2	6.66	0.99	40.3

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				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-841	Tabora Rural	Igalula	Igalula	2	Igalula Stesheni	na	Shallow well	5.23655	33.01919	1182	1972	na	na	Afridev	na	1972	na	na	Unfunctionning	na	na	na	na	na	na
HP-842	Tabora Rural	Igalula	Igalula	2	Mbalanga	na	Shallow well	5.23809	33.01899	1117	1996	na	na	Indian Mk-II	na	1996	na	na	Unfunctionning	na	na	na	na	na	na
HP-843	Tabora Rural	Igalula	Kawekapina	3	Chang'ombe	na	Deep well	5.28982	32.99182	1195	2009	na	na	Indian Mk-II	na	2009	na	10	Functionning	Clear	Salty	27	6.32	0.4	35.8
HP-844	Tabora Rural	Igalula	Kawekapina	3	Kawekapina	na	Deep well	5.29658	32.99721	1200	2009	na	na	Indian Mk-II	na	2009	na	10	Functionning	Clear	Salty	27	6.31	0.67	28.2
HP-845	Tabora Rural	Igalula	Kawekapina	3	Ntulu	na	Deep well	5.29186	33.05941	1188	2009	na	na	Indian Mk-II	na	2009	na	10	Functionning	Clear	Salty	27.4	7.06	0.77	50.9
HP-846	Tabora Rural	Igalula	Kigwa B	14	Kalofya	na	Shallow well	5.1112	33.05555	1212	1994	na	na	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-847	Tabora Rural	Igalula	Kigwa B	14	Magiri Chini	na	Shallow well	5.10333	33.1136	1196	2009	na	30	Indian Mk-II	na	2009	na	na	Functionning	Clear	Tasteless	28.4	6.86	0.8	24
HP-848	Tabora Rural	Igalula	Kigwa B	14	Magiri Chini	na	Shallow well	5.11553	33.08199	1235	1994	na	30	Indian Mk-II	na	2009	na	24	Functionning	Clear	Tasteless	26	5.64	0.4	62.2
HP-849	Tabora Rural	Igalula	Kigwa B	14	Magiri Chini	na	Shallow well	5.10797	33.10302	1221	na	na	4	Tanira	na	1994	na	na	Unfunctionning	na	na	na	na	na	na
HP-850	Tabora Rural	Igalula	Kigwa B	14	Magiri Chini	na	Shallow well	5.10961	33.10986	1230	na	na	na	Tanira	na	1994	na	na	Unfunctionning	na	na	na	na	na	na
HP-851	Tabora Rural	Igalula	Kigwa B	14	Majengo	na	Shallow well	5.11817	33.1258	1217	1994	2.8	30	no pump	na	1994	na	na	Pump Removed	Milky	Tasteless	26	6.31	0.8	61.4
HP-852	Tabora Rural	Igalula	Kigwa B	14	Majengo	na	Shallow well	5.11855	33.12433	1231	1994	1.4	6	no pump	na	1994	na	na	Pump Removed	Milky	Tasteless	26.5	6.62	0.86	42.3
HP-853	Tabora Rural	Igalula	Kigwa B	14	Majengo	na	Shallow well	5.11767	33.12576	1294	1994	3.3	30	no pump	na	1994	na	na	Pump Removed	Clear	Salty	26	6.45	0.8	56.6
HP-854	Tabora Rural	Igalula	Kigwa B	14	Majengo	na	Shallow well	5.12009	33.11796	1247	na	na	na	Tanira	na	1994	na	na	Unfunctionning	na	na	na	na	na	na
HP-855	Tabora Rural	Igalula	Kigwa B	14	Majengo	na	Deep well	5.11658	33.1226	1260	na	na	na	Tanira	na	1994	na	na	Unfunctionning	na	na	na	na	na	na
HP-856	Tabora Rural	Igalula	Kigwa B	14	Ngambo	na	Shallow well	5.13449	33.11184	1186	1984	4.3	6	Tanira	na	1984	na	na	Stolen	Clear	Tasteless	25.6	6.24	0.46	13.15
HP-857	Tabora Rural	Igalula	Kigwa B	14	Ngambo	na	Shallow well	5.13172	33.11065	1221	1994	1.9	30	no pump	na	1994	na	na	Pump Removed	Reddish	Tasteless	27.5	6.71	0.86	33.4
HP-858	Tabora Rural	Igalula	Kigwa B	14	Ngambo	na	Deep well	5.12545	33.10933	1140	1994	0.5	75	no pump	na	1994	na	na	Pump Removed	Milky	Tasteless	25.2	6.38	0.61	53.4
HP-859	Tabora Rural	Igalula	Kigwa B	14	Ngambo	na	Shallow well	5.12648	33.12246	1260	na	na	na	Tanira	na	1994	na	na	Unfunctionning	na	na	na	na	na	na
HP-860	Tabora Rural	Igalula	Nzigala	4	Miziwaziwa	782	Shallow well	5.19614	33.20279	1133	2009	na	30	Indian Mk-II	na	2009	27	12	Functionning	clear	freash	28	6.5	0.8	112.6
HP-861	Tabora Rural	Igalula	Nzigala	4	Miziwaziwa	1200	Deep well	5.16912	33.26149	1128	2009	na	50	Indian Mk-II	na	2009	30	12	Functionning	clear	freash	28	6.2	0.5	117.4
HP-862	Tabora Rural	Igalula	Nzigala	4	Nzigala A	900	Shallow well	5.1391	33.2099	1130	2009	na	30	Indian Mk-II	na	2009	36	12	Unfunctionning	na	na	na	na	na	na
HP-863	Tabora Rural	Igalula	Nzigala	4	Nzigala B	600	Shallow well	5.17191	33.21419	1132	2009	na	30	Indian Mk-II	na	2009	24	12	Functionning	clear	freash	25.9	6.01	0.3	124.8
HP-864	Tabora Rural	Ilolangulu	Ilolangulu	3	Ilolangulu Mjini	na	Shallow well	5.09614	32.63634	1052	1992	5.7	15	no pump	na	1995	na	na	Pump Removed	Clear	Tasteless	25	5.9	0.4	94.8
HP-865	Tabora Rural	Ilolangulu	Ilolangulu	3	Ilolangulu Mjini	na	Shallow well	5.09306	32.63684	1129	na	6	na	no pump	na	na	na	na	Pump Removed	Milky	Tasteless	25.3	5.06	0.4	106.8
HP-866	Tabora Rural	Ilolangulu	Ilolangulu	3	Ilolangulu Mjini	na	Shallow well	5.09333	32.63587	1130	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-867	Tabora Rural	Ilolangulu	Isila	2	Ibasa	na	Shallow well	5.06231	32.59903	1202	na	6.5	na	Kangaroo	na	na	na	na	Unfunctionning	Clear	Tasteless	26	6.5	0.3	75.1
HP-868	Tabora Rural	Ilolangulu	Isila	2	Isila	na	Shallow well	5.05756	32.58707	1211	na	1.5	na	no pump	na	na	na	na	Pump Removed	Clear	Salty	23.8	6.95	0.4	29.9
HP-869	Tabora Rural	Ilolangulu	Mbola	3	Mbola B	na	Shallow well	4.99949	32.57937	1188	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-870	Tabora Rural	Ilolangulu	Mbola	3	Mbola C	na	Shallow well	5.02227	32.58953	1220	na	na	na	no pump	na	na	na	na	Pump Removed	Milky	Salty	26.8	5.27	0.4	80.9
HP-871	Tabora Rural	Ilolangulu	Mbola	3	Mbola Masharik	na	Shallow well	4.99978	32.57924	1188	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-872	Tabora Rural	Isikizya	Ibelamilundi	3	Ibelamilundi Senta A	na	Shallow well	4.88015	33.1658	1259	na	1.6	na	Kangaroo	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-873	Tabora Rural	Isikizya	Ibelamilundi	3	Ibelamilundi Senta A	na	Shallow well	4.87986	33.18148	1268	na	1.8	na	Kangaroo	na	na	na	na	Unfunctionning	clear	Tasteless	28.3	6.5	0.32	62.3
HP-874	Tabora Rural	Isikizya	Ibelamilundi	3	Ibelamilundi Senta B	na	Shallow well	4.89381	33.17371	1256	na	na	na	Kangaroo	na	na	na	na	Abandoned	na	na	na	na	na	na
HP-875	Tabora Rural	Isikizya	Ibushi	1	Idete	na	Deep well	4.86131	33.12488	1228	na	3.3	na	Afridev	na	na	na	na	Functionning	clear	Tasteless	29.7	7.11	0.69	41.9
HP-876	Tabora Rural	Isikizya	Igoko	5	Igoko Senta	598	Shallow well	4.82346	33.13181	1239	2006	na	na	Indian Mk-II	na	2006	na	12	Functionning	Milky	Salty	27.4	6.56	0.87	19.32
HP-877	Tabora Rural	Isikizya	Igoko	5	Kilimanjaro	1286	Shallow well	4.8288	33.07234	1219	2006	na	na	Indian Mk-II	na	2006	na	8	Functionning	Milky	Tasteless	28	5.46	0.4	35.1
HP-878	Tabora Rural	Isikizya	Igoko	5	Mirambo	417	Shallow well	4.82601	33.10802	1214	2006	na	na	Indian Mk-II	na	2006	na	na	Unfunctionning	na	na	na	na	na	na
HP-879	Tabora Rural	Isikizya	Igoko	5	Nyamwezi	506	Shallow well	4.80998	33.12291	1218	2006	na	na	Indian Mk-II	na	2006	na	8	Functionning	Clear	Salty	26.2	6.79	0.8	42
HP-880	Tabora Rural	Isikizya	Igoko	5	Pemba	402	Shallow well	4.81837	33.0938	1254	2005	na	na	Indian Mk-II	na	2006	na	24	Functionning	Clear	Salty	27.6	6.55	0.88	8.69

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-881	Tabora Rural	Isikizya	Ilalwasimba	10	Ihala	250	Deep well	4.89835	33.09654	1232	1997	na	na	Afridev	na	1997	na	24	Functionning	MILKY	MUDY	27.5	5.1	ND	141
HP-882	Tabora Rural	Isikizya	Ilalwasimba	10	Ihala	300	Deep well	4.90324	33.10393	1230	1997	na	na	Tanira	na	1997	na	24	Unfunctionning	na	na	na	na	na	na
HP-883	Tabora Rural	Isikizya	Ilalwasimba	10	Ihala	260	Shallow well	4.90445	33.10366	1230	1997	na	na	Indian Mk-II	na	1997	na	24	Unfunctionning	MILKY	MUDY	25.9	6	0.4	102
HP-884	Tabora Rural	Isikizya	Ilalwasimba	10	Ikonola	UNKNOWN	Shallow well	4.91861	33.13352	1229	1997	na	na	Indian Mk-II	na	1997	na	24	Functionning	MILKY	MUDY	27.1	5.3	ND	105
HP-885	Tabora Rural	Isikizya	Ilalwasimba	10	Ilandu	UNKNOWN	Shallow well	4.90908	33.14984	1243	1997	na	na	Indian Mk-II	na	1997	na	24	Functionning	MILKY	MUDY	27	5	ND	89
HP-886	Tabora Rural	Isikizya	Ilalwasimba	10	Mihama	UNKNOWN	Shallow well	4.88886	33.14591	1242	1997	na	na	Indian Mk-II	na	1997	na	24	Unfunctionning	na	na	na	na	na	na
HP-887	Tabora Rural	Isikizya	Ilalwasimba	10	Nsaguzi A	400	Shallow well	4.92257	33.10849	1225	1997	na	na	Tanira	na	1997	na	24	Functionning	MILKY	MUDY	26.7	5.1	0.4	67
HP-888	Tabora Rural	Isikizya	Ilalwasimba	10	Nsaguzi B	300	Shallow well	4.91837	33.11912	1227	1997	na	na	Tanira	na	1997	na	24	Unfunctionning	na	na	na	na	na	na
HP-889	Tabora Rural	Isikizya	Ilalwasimba	10	Ubala	UNKNOWN	Shallow well	4.8826	33.11249	1235	1997	na	na	Indian Mk-II	na	1997	na	24	Unfunctionning	na	na	na	na	na	na
HP-890	Tabora Rural	Isikizya	Ilalwasimba	10	Ubala	UNKNOWN	Shallow well	4.89029	33.11221	1237	1997	na	na	Indian Mk-II	na	1997	na	24	Functionning	MILKY	MUDY	26.8	6	0.4	500
HP-891	Tabora Rural	Kizengi	Kizengi	5	Kabisile	na	Shallow well	5.29721	33.64443	1232	na	na	na	Afridev	na	2008	na	24	Functionning	Clear	Tasteless	28	5.85	0.4	27.7
HP-892	Tabora Rural	Kizengi	Kizengi	5	Kizengi Senta	na	Shallow well	5.34691	33.5798	1180	na	na	na	Afridev	na	2008	na	24	Functionning	Clear	Tasteless	25.5	4.99	0.29	15.22
HP-893	Tabora Rural	Kizengi	Kizengi	5	Kizengi Senta	na	Shallow well	5.34788	33.58027	1173	na	na	na	Afridev	na	2008	na	24	Functionning	Clear	Tasteless	25.3	6.06	0.4	24
HP-894	Tabora Rural	Kizengi	Kizengi	5	Kizengi Senta	na	Shallow well	5.34179	33.57998	1170	na	na	na	Afridev	na	2008	na	24	Functionning	Clear	Salty	25.5	7.61	0.8	41.2
HP-895	Tabora Rural	Kizengi	Kizengi	5	Ntindili	na	Shallow well	5.34628	33.62981	1218	na	na	na	Afridev	na	2008	na	24	Functionning	Milky	Tasteless	26.2	5.34	0.2	14.36
HP-896	Tabora Rural	Kizengi	Malongwe	6	Kalola Njiapanda	na	Shallow well	5.36436	33.68365	1234	1999	na	na	Afridev	na	2008	na	24	Unfunctionning	na	na	na	na	na	na
HP-897	Tabora Rural	Kizengi	Malongwe	6	Kalola Njiapanda	na	Shallow well	5.36279	33.68009	1234	1999	na	na	Afridev	na	2008	na	24	Functionning	Clear	Tasteless	25.4	7.01	0.5	38.5
HP-898	Tabora Rural	Kizengi	Malongwe	6	Malongwe Kati	na	Shallow well	5.4404	33.64272	1187	1999	na	na	Afridev	na	2008	na	24	Functionning	Milky	Salty	27.2	6.52	0.52	8.3
HP-899	Tabora Rural	Kizengi	Malongwe	6	Malongwe Kati	na	Shallow well	5.4409	33.64342	1187	1999	na	na	Afridev	na	2008	na	24	Functionning	Clear	Tasteless	26.1	6.17	0.2	14.4
HP-900	Tabora Rural	Kizengi	Malongwe	6	Malongwe Kati	na	Shallow well	5.44117	33.64324	1186	1986	na	na	Afridev	na	na	na	24	Unfunctionning	na	na	na	na	na	na
HP-901	Tabora Rural	Kizengi	Malongwe	6	Malongwe Kati	na	Shallow well	5.4372	33.6451	1221	1999	na	na	Afridev	na	2008	na	24	Functionning	Clear	Tasteless	27.7	7.67	0.8	4.47
HP-902	Tabora Rural	Kizengi	Mpumbuli	1	Mpumbuli	na	Shallow well	5.30743	33.47566	1179	na	na	na	Afridev	na	2009	na	24	Functionning	Clear	Salty	26.1	5.14	0.26	23.5
HP-903	Tabora Rural	Kizengi	Tura	1	Tura Kati	na	Deep well	5.48919	33.84139	1277	2009	na	na	no pump	na	na	na	na	Under Construction	na	na	na	na	na	na
HP-904	Tabora Rural	Loya	Kalangale/Masenge	1	Mwamlashi	2000	Shallow well	4.83174	33.69727	1147	na	na	na	Afridev	na	2009	na	24	Functionning	Clear	Salty	28.5	5.6	0.35	16.4
HP-905	Tabora Rural	Loya	Lutona	7	Kagera	na	Shallow well	5.13059	33.68226	1119	na	na	na	Afridev	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-906	Tabora Rural	Loya	Lutona	7	Legezamwendo	na	Shallow well	5.23444	33.75357	1185	na	na	na	Afridev	na	na	na	na	Functionning	Clear	Salty	26.7	7.95	7.94	156.9
HP-907	Tabora Rural	Loya	Lutona	7	Legezamwendo	na	Shallow well	5.23214	33.75172	1181	na	na	na	Afridev	na	2009	na	24	Functionning	Clear	Salty	25.8	7.75	3.5	22.2
HP-908	Tabora Rural	Loya	Lutona	7	Lutona	na	Shallow well	5.16113	33.72934	1157	na	na	na	Afridev	na	2009	na	24	Functionning	Clear	Salty	27.2	5.49	0.25	23.1
HP-909	Tabora Rural	Loya	Lutona	7	Lutona	na	Shallow well	5.17559	33.72008	1151	na	na	na	Indian Mk-II	na	na	na	24	Functionning	Clear	Salty	27.2	7.3	3.2	22
HP-910	Tabora Rural	Loya	Lutona	7	Mtakuja	na	Shallow well	5.12528	33.7599	1141	na	na	na	Afridev	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-911	Tabora Rural	Loya	Lutona	7	Mwanzelwa	na	Shallow well	5.17896	33.65819	1171	na	na	na	Afridev	na	2009	na	24	Functionning	Milky	Tasteless	27	6.23	0.5	24.6
HP-912	Tabora Rural	Loya	Miswaki	2	Mpyagula	na	Shallow well	4.81451	33.74124	1067	na	na	na	Afridev	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-913	Tabora Rural	Loya	Miswaki	2	Mpyagula	na	Shallow well	4.80649	33.74971	1052	na	na	na	Afridev	na	2009	na	24	Functionning	Muddy	Salty	29	7.2	0.95	14.6
HP-914	Tabora Rural	Lutende	Mwakadala	5	Makoyesengi	na	Shallow well	4.91837	33.67794	1187	na	na	na	Afridev	na	2012	na	na	Unfunctionning	na	na	na	na	na	na
HP-915	Tabora Rural	Lutende	Mwakadala	5	Mlumba/Mmale	na	Shallow well	4.95059	33.62784	1205	na	na	na	Afridev	na	2009	na	24	Functionning	Milky	Taste of Iron	27.3	7.03	0.6	25.3
HP-916	Tabora Rural	Lutende	Mwakadala	5	Minza	na	Shallow well	4.89919	33.57446	1195	na	na	na	Afridev	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-917	Tabora Rural	Lutende	Mwakadala	5	Minza	na	Shallow well	4.89289	33.63143	1192	na	na	na	Afridev	na	na	na	24	Functionning	Clear	Salty	28.3	8.76	5.2	188
HP-918	Tabora Rural	Lutende	Mwakadala	5	Mwakadala Kati	na	Shallow well	4.92643	33.5493	1219	na	na	na	Afridev	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-919	Tabora Rural	Mabama	Kalola	5	Block Farm	na	Shallow well	5.00174	32.49054	1153	1992	na	na	Afridev	na	1992	na	24	Functionning	Clear	Tasteless	27	4.72	0.4	54.4
HP-920	Tabora Rural	Mabama	Kalola	5	Mbwaigolola	na	Shallow well	4.98504	32.47818	1157	1992	na	na	Afridev	na	1992	na	24	Functionning	Clear	Tasteless	26.1	5.65	0.8	80.1

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-921	Tabora Rural	Mabama	Kalola	5	Msiga	na	Shallow well	5.02568	32.46337	1117	1992	na	na	Afridev	na	1997	na	na	Unfunctionning	na	na	na	na	na	na
HP-922	Tabora Rural	Mabama	Kalola	5	Mvenge	na	Shallow well	5.02136	32.4964	1161	1992	na	na	Afridev	na	1992	na	na	Unfunctionning	na	na	na	na	na	na
HP-923	Tabora Rural	Mabama	Kalola	5	Tewa	na	Shallow well	5.04353	32.49381	1159	1992	na	na	Afridev	na	1992	na	24	Functionning	Milky	Tasteless	27	5.62	0.42	82
HP-924	Tabora Rural	Mabama	Mabama	2	Mabama Magharibi	na	Shallow well	5.12321	32.50819	1140	2009	na	6	Afridev	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-925	Tabora Rural	Mabama	Mabama	2	Mabama Magharibi	na	Shallow well	5.11935	32.51538	1153	2009	na	5	Afridev	na	2009	na	24	Functionning	Yellowish	Taste of iron	27.5	6.66	0.47	7.4
HP-926	Tabora Rural	Mabama	Maswanya	3	Maswanya Magharibi	na	Shallow well	5.05839	32.48911	1149	1997	5	6	no pump	na	1997	na	na	Pump Removed	Clear	Tasteless	27.3	5.17	0.6	83.3
HP-927	Tabora Rural	Mabama	Maswanya	3	Maswanya Mashariki	na	Shallow well	5.06535	32.49276	1144	na	4	6	no pump	na	na	na	na	Pump Removed	Clear	Tasteless	27.6	6.38	0.4	53.8
HP-928	Tabora Rural	Mabama	Maswanya	3	Maswanya Mashariki	na	Shallow well	5.06497	32.49199	1151	1995	na	na	Afridev	na	1995	na	na	Unfunctionning	na	na	na	na	na	na
HP-929	Tabora Rural	Ndono	Itinka	6	Itinka Kiwanjani	na	Shallow well	5.04603	32.4111	1123	1983	na	7	no pump	na	1983	na	na	Pump Removed	na	na	na	na	na	na
HP-930	Tabora Rural	Ndono	Itinka	6	Itinka Kiwanjani	na	Shallow well	5.04548	32.41244	1113	1983	na	7	Afridev	na	1983	na	na	Unfunctionning	na	na	na	na	na	na
HP-931	Tabora Rural	Ndono	Itinka	6	Itinka Kiwanjani	na	Shallow well	5.0481	32.40643	1111	1983	na	7	no pump	na	1983	na	na	Pump Removed	na	na	na	na	na	na
HP-932	Tabora Rural	Ndono	Itinka	6	Itinka Kiwanjani	na	Shallow well	5.04807	32.40932	1113	1983	na	10	no pump	na	1983	na	na	Pump Removed	Clear	Salty	25.4	5.44	0.8	102.5
HP-933	Tabora Rural	Ndono	Itinka	6	Itinka Utemini	na	Shallow well	5.04605	32.40977	1125	1983	na	7	no pump	na	1983	na	na	Pump Removed	na	na	na	na	na	na
HP-934	Tabora Rural	Ndono	Itinka	6	Kafulwe	na	Shallow well	5.04855	32.41934	1095	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-935	Tabora Rural	Ndono	Ndono	7	Ndono Kusini	na	Shallow well	5.1167	32.44386	1174	na	2.7	na	no pump	na	na	na	na	Pump Removed	Milky	Tasteless	25.2	6.15	0.4	144.6
HP-936	Tabora Rural	Ndono	Ndono	7	Ndono Kusini	na	Shallow well	5.11261	32.44279	1159	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-937	Tabora Rural	Ndono	Ndono	7	Ndono Mlumbani	na	Shallow well	5.11019	32.4535	1151	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-938	Tabora Rural	Ndono	Ndono	7	Ndono Senta	na	Shallow well	5.10321	32.44822	1162	1982	na	na	Indian Mk-II	na	1982	na	na	Unfunctionning	na	na	na	na	na	na
HP-939	Tabora Rural	Ndono	Ndono	7	Ndono Senta	na	Shallow well	5.10133	32.44868	1167	1982	6.8	na	no pump	na	1982	na	na	Stolen	Clear	Tasteless	26.2	5.51	0.4	4.09
HP-940	Tabora Rural	Ndono	Ndono	7	Ndono Senta	na	Shallow well	5.11056	32.44288	1165	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-941	Tabora Rural	Ndono	Ndono	7	Ndono Senta	na	Shallow well	5.10649	32.45292	1164	na	2.4	na	Indian Mk-II	na	na	na	na	Unfunctionning	Mudy	Tasteless	24.3	6.24	0.8	85.4
HP-942	Tabora Rural	Ndono	Nkulusi	4	Nkulusi C	na	Shallow well	4.97913	32.42581	1115	1983	na	na	no pump	na	na	na	na	Pump Removed	Clear	Tasteless	25.5	6.52	0.4	105.6
HP-943	Tabora Rural	Ndono	Nkulusi	4	Nkulusi Mlimani	na	Shallow well	4.9962	32.41699	1113	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-944	Tabora Rural	Ndono	Nkulusi	4	Nkulusi Mlimani	na	Shallow well	4.99258	32.4121	1117	1983	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-945	Tabora Rural	Ndono	Nkulusi	4	Nkulusi Senta	na	Shallow well	5.00741	32.42	1137	1983	1.8	na	no pump	na	na	na	na	Pump Removed	Clear	Salty	25.8	6.09	0.4	68
HP-946	Tabora Rural	Ufuluma	Bulima	3	Ilola	na	Shallow well	4.90825	32.41371	1219	1997	na	na	Indian Mk-II	na	1997	na	na	Unfunctionning	na	na	na	na	na	na
HP-947	Tabora Rural	Ufuluma	Bulima	3	Mnazi Mmoja	na	Shallow well	4.88903	32.40685	1195	1997	na	15	Indian Mk-II	na	1997	na	na	Unfunctionning	na	na	na	na	na	na
HP-948	Tabora Rural	Ufuluma	Bulima	3	Nsimba	na	Shallow well	4.89922	32.44225	1253	1997	na	na	Indian Mk-II	na	1997	na	na	Unfunctionning	na	na	na	na	na	na
HP-949	Tabora Rural	Ufuluma	Chessa	5	Chessa Mlimani	na	Shallow well	4.93353	32.45454	1159	1997	na	30	Afridev	na	1997	na	24	Functionning	Milky	Salty	24.2	6.78	0.9	43.8
HP-950	Tabora Rural	Ufuluma	Chessa	5	Igalula	na	Shallow well	4.95214	32.44032	1107	1997	na	na	Afridev	na	1997	na	24	Functionning	Clear	Tasteless	28.3	6.14	0.4	78.8
HP-951	Tabora Rural	Ufuluma	Chessa	5	Iwumbu	na	Shallow well	4.93164	32.42276	1123	1996	na	na	Tanira	na	1996	na	na	Unfunctionning	na	na	na	na	na	na
HP-952	Tabora Rural	Ufuluma	Chessa	5	Lolangulu	na	Shallow well	4.90934	32.44979	1121	1997	na	30	Afridev	na	1997	na	na	Unfunctionning	na	na	na	na	na	na
HP-953	Tabora Rural	Ufuluma	Chessa	5	Uzyungula	na	Shallow well	4.93536	32.43245	1090	1996	na	na	Tanira	na	1996	na	24	Functionning	Clear	Salty	26.6	5	0.4	52
HP-954	Tabora Rural	Ufuluma	Makazi	2	Makazi Senta	150	Shallow well	4.95031	32.31136	1179	1997	na	na	Indian Mk-II	na	1997	na	na	Unfunctionning	na	na	na	na	na	na
HP-955	Tabora Rural	Ufuluma	Makazi	2	Makazi Senta	75	Shallow well	4.94349	32.311	1121	1997	na	na	Indian Mk-II	na	1997	na	na	Unfunctionning	na	na	na	na	na	na
HP-956	Tabora Rural	Ufuluma	Ufuluma	3	Imalampaka	na	Shallow well	4.96757	32.39626	1131	1982	3.8	6	no pump	na	1982	na	na	Pump Removed	Clear	Tasteless	25.2	5.45	0.4	140.6
HP-957	Tabora Rural	Ufuluma	Ufuluma	3	Imalampaka	na	Shallow well	4.96441	32.39558	1097	1982	4	10	Tanira	na	1982	na	na	Unfunctionning	Clear	Tasteless	24.3	6.09	0.8	86.5
HP-958	Tabora Rural	Ufuluma	Ufuluma	3	Ufuluma Senta	na	Shallow well	4.97836	32.38684	1147	na	6	15	no pump	na	na	na	na	Pump Removed	Mudy	Salty	26.3	6.93	0.4	29.9
HP-959	Tabora Rural	Ufuluma	Ugowola	6	Ugangala	na	Shallow well	4.91811	32.32958	1090	2001	na	6	Indian Mk-II	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-960	Tabora Rural	Ufuluma	Ugowola	6	Ugowola A	na	Shallow well	4.96546	32.35812	1126	2001	na	6	Afridev	na	2001	na	12	Functionning	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-961	Tabora Rural	Ufuluma	Ugowola	6	Ugowola A	na	Shallow well	4.96558	32.34921	1167	1982	na	na	no pump	na	1982	na	na	Pump Removed	na	na	na	na	na	na
HP-962	Tabora Rural	Ufuluma	Ugowola	6	Ugowola B	na	Shallow well	4.96351	32.34039	1084	1982	na	6	no pump	na	1982	na	na	Pump Removed	na	na	na	na	na	na
HP-963	Tabora Rural	Ufuluma	Ugowola	6	Ugowola B	na	Shallow well	4.96433	32.33785	1064	1982	na	6	no pump	na	1982	na	na	Pump Removed	na	na	na	na	na	na
HP-964	Tabora Rural	Ufuluma	Ugowola	6	Ugowola B	na	Shallow well	4.96495	32.3502	1156	2001	na	30	Afridev	na	2001	na	12	Functionning	Clear	Tasteless	26.8	4.86	0.28	74.1
HP-965	Tabora Rural	Upuge	Lunguya	6	Kalembela	150	Shallow well	4.85388	32.98848	1214	na	na	na	Tanira	na	2001	na	24	Functionning	Clear	Tasteless	26.6	5.9	0.4	48
HP-966	Tabora Rural	Upuge	Lunguya	6	Kalembela	200	Shallow well	4.84168	32.97816	1210	na	na	na	Tanira	na	2001	na	24	Functionning	Milky	Tasteless	27.9	6.3	0.5	35.3
HP-967	Tabora Rural	Upuge	Lunguya	6	Lekatugeme	200	Shallow well	4.88801	32.97397	1250	na	na	na	Tanira	na	2001	na	24	Functionning	Milky	Tasteless	28.5	6.1	0.5	95
HP-968	Tabora Rural	Upuge	Lunguya	6	Lekatugeme	200	Shallow well	4.89237	32.98521	1255	na	na	na	Tanira	na	2001	na	24	Functionning	Clear	Salty	25.8	5.5	0.15	26.4
HP-969	Tabora Rural	Upuge	Lunguya	6	Mwegelezi	150	Shallow well	4.86649	32.97591	1231	na	na	na	Tanira	na	2001	na	24	Functionning	Milky	Tasteless	25.5	6.1	0.5	67.6
HP-970	Tabora Rural	Upuge	Lunguya	6	Mwegelezi	150	Shallow well	4.86916	32.9889	1234	na	na	na	Tanira	na	2001	na	24	Functionning	Milky	Tasteless	25.5	6.2	0.44	53.4
HP-971	Tabora Rural	Upuge	Mhogwe	2	Mhogwe A	na	Deep well	4.85991	33.00299	1231	na	na	na	Afridev	na	2001	na	24	Functionning	clear	Tasteless	29.9	6.9	1.4	46.3
HP-972	Tabora Rural	Upuge	Mhogwe	2	Mhogwe B	na	Shallow well	4.87703	33.04002	1222	na	na	na	Afridev	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-973	Tabora Rural	Upuge	Uhuru Mbiti	2	Uhuru Mbiti A	204	Deep well	4.8534	32.95447	1208	2009	na	80	Indian Mk-II	na	2009	na	24	Functionning	Clear	Salty	27.3	6.8	1.25	69
HP-974	Tabora Rural	Upuge	Uhuru Mbiti	2	Uhuru Mbiti B	201	Deep well	4.85376	32.93826	1202	2009	na	50	Kangaroo	na	2009	na	24	Functionning	Clear	Salty	28.7	6.12	0.2	32.5
HP-975	Tabora Rural	Upuge	Upuge	2	Upuge A	3000	Deep well	4.91354	32.97441	1256	na	na	na	Indian Mk-II	na	na	na	24	Functionning	Milky	Salty	24.5	6.5	0.48	122
HP-976	Tabora Rural	Upuge	Upuge	2	Upuge B	1800	Unknown	4.91138	32.98943	1271	na	na	30	Indian Mk-II	na	na	na	24	Functionning	Milky	Salty	25.4	5.9	1.11	186
HP-977	Tabora Rural	Usagari	Azimio	1	Azimio Senta	na	Shallow well	4.85757	32.46134	1110	1981	1.4	na	no pump	na	1981	na	na	Pump Removed	Clear	Tasteless	27.6	6.3	0.4	72
HP-978	Tabora Rural	Usagari	Imalauduki	6	Imalanduki	200	Shallow well	4.92096	32.49089	1053	na	5	na	Afridev	na	2009	na	12	Unfunctionning	Clear	Salty	26.9	6.3	0.4	42.5
HP-979	Tabora Rural	Usagari	Imalauduki	6	Imalanduki	250	Shallow well	4.92852	32.48821	1103	1997	na	na	Afridev	na	2009	na	24	Functionning	Clear	Tasteless	27.2	6.2	0.4	98.6
HP-980	Tabora Rural	Usagari	Imalauduki	6	Imalanduki	400	Shallow well	4.9172	32.49601	1149	1997	na	na	Afridev	na	2009	na	24	Functionning	Clear	Tasteless	26	5.64	0.09	118.8
HP-981	Tabora Rural	Usagari	Imalauduki	6	Imalanduki	na	Shallow well	4.91051	32.50035	1141	1985	3.9	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-982	Tabora Rural	Usagari	Imalauduki	6	Kabumbuli	600	Shallow well	4.90408	32.47133	1187	1997	na	na	Afridev	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-983	Tabora Rural	Usagari	Imalauduki	6	Usagari	na	Shallow well	4.88746	32.52033	1214	1997	1.8	na	Afridev	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-984	Tabora Rural	Usagari	Mgungumalo	2	Kakulungu	na	Shallow well	4.96071	32.51321	1195	1986	2.9	na	Kangaroo	na	1986	na	na	Unfunctionning	na	na	na	na	na	na
HP-985	Tabora Rural	Usagari	Mgungumalo	2	Kichangani	na	Shallow well	4.94961	32.52579	1165	1997	na	na	Kangaroo	na	1997	na	na	Unfunctionning	na	na	na	na	na	na
HP-986	Tabora Rural	Usagari	Msimba	5	Kabeleka	150	Shallow well	4.92802	32.53091	1255	2009	na	4	Indian Mk-II	4	2009	1.5	24	Functionning	Milky	Taste of iron	27.4	6.34	0.77	18.19
HP-987	Tabora Rural	Usagari	Msimba	5	Mienda	250	Shallow well	4.92542	32.52162	1256	2009	na	30	Indian Mk-II	30	2009	2	24	Functionning	Milky	Taste of iron	25.8	4.69	0.26	21.9
HP-988	Tabora Rural	Usagari	Msimba	5	Mienda	300	Shallow well	4.9208	32.51358	1258	2009	na	4	Tanira	4	2009	2	24	Functionning	Milky	Taste of iron	25.8	6.69	1.14	35.4
HP-989	Tabora Rural	Usagari	Msimba	5	Msimba Senta	200	Shallow well	4.91511	32.53091	1260	2002	na	30	Indian Mk-II	30	2002	3	24	Functionning	Clear	Taste of iron	26.2	5.59	0.12	12.33
HP-990	Tabora Rural	Usagari	Msimba	5	Msimba Senta	200	Shallow well	4.91377	32.53743	1268	2009	na	4	Tanira	4	2009	2	24	Functionning	Clear	Salty	26.9	6.75	1.32	76.7
HP-991	Tabora Urban	Itetemia	Itetemia	18	Isukamahela	UNKNOWN	Shallow well	5.09996	32.79193	1189	2003	3.5	6	Indian Mk-II	4.5	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-992	Tabora Urban	Itetemia	Itetemia	18	Isukamahela	UNKNOWN	Shallow well	5.11722	32.78259	1187	2004	3	6	Afridev	4	2004	na	na	Unfunctionning	MLKY	Good	26.8	5.8	0.4	70.4
HP-993	Tabora Urban	Itetemia	Itetemia	18	Kipalapala Kaskazini	UNKNOWN	Shallow well	5.09528	32.789	1191	2003	3	6	Tanira	4	2003	na	na	Functionning	MLKY	Good	27.6	6.03	0.4	13.5
HP-994	Tabora Urban	Itetemia	Itetemia	18	Kipalapala Kaskazini	UNKNOWN	Shallow well	5.11368	32.82753	1169	2003	3.8	6	Tanira	4	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-995	Tabora Urban	Itetemia	Itetemia	18	Kipalapala Kati	UNKNOWN	Shallow well	5.10727	32.7954	1178	2004	3.2	6	Tanira	4.5	2004	na	na	Functionning	MLKY	Good	27	6.5	0.4	49.4
HP-996	Tabora Urban	Itetemia	Itetemia	18	Kipalapala Kati	UNKNOWN	Shallow well	5.09044	32.79254	1202	2008	3.6	6	Indian Mk-II	4.5	2008	na	na	Functionning	MLKY	Good	27.4	6.5	0.8	36.4
HP-997	Tabora Urban	Itetemia	Itetemia	18	Kipalapala Magharibi	UNKNOWN	Shallow well	5.13091	32.77881	1185	2004	3	6	Indian Mk-II	4	2004	na	na	Functionning	MLKY	Good	26	6.4	0.4	23.2
HP-998	Tabora Urban	Itetemia	Itetemia	18	Kipalapala Magharibi	UNKNOWN	Shallow well	5.09424	32.78944	1193	1995	3.4	6	Indian Mk-II	4	1995	na	na	Unfunctionning	na	na	na	na	na	na
HP-999	Tabora Urban	Itetemia	Itetemia	18	Kipalapala Masahariki	na	Shallow well	5.05652	32.77227	1196	2004	4	6	Tanira	5	2004	na	na	Functionning	MLKY	Good	26.6	6.3	0.4	2.6
HP-1000	Tabora Urban	Itetemia	Itetemia	18	Kipalapala Masahariki	na	Shallow well	5.08494	32.79416	1207	2004	4	6	Tanira	5	2004	na	na	Unfunctionning	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1001	Tabora Urban	Itetemia	Itetemia	18	Kipalapala Masahariki	na	Shallow well	5.09424	32.79652	1199	2008	4	6	Tanira	5	2004	na	na	Functionning	MILKY	Good	27.7	6.5	0.4	40.5
HP-1002	Tabora Urban	Itetemia	Itetemia	18	Kipalapala Masahariki	UNKNOWN	Shallow well	5.09789	32.79852	1191	2001	3	6	Afridev	4.5	2001	na	na	Functionning	na	na	na	na	na	na
HP-1003	Tabora Urban	Itetemia	Itetemia	18	Kipalapala Masahariki	UNKNOWN	Shallow well	5.10837	32.80464	1174	2001	3	6	Afridev	4.5	2001	na	na	Functionning	na	na	na	na	na	na
HP-1004	Tabora Urban	Itetemia	Itetemia	18	Kwihara	na	Shallow well	5.06478	32.7841	1215	2004	4	6	Afridev	5	2004	na	na	Functionning	MILKY	Good	26.6	6.1	0.4	18
HP-1005	Tabora Urban	Itetemia	Itetemia	18	Kwihara	na	Shallow well	5.06356	32.78117	1215	2003	4	6	Afridev	5	2003	na	na	Functionning	MILKY	Good	23.3	6.13	0.4	23.8
HP-1006	Tabora Urban	Itetemia	Itetemia	18	Masimba	UNKNOWN	Shallow well	5.08712	32.83254	1176	2001	2	6	Tanira	5	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1007	Tabora Urban	Itetemia	Itetemia	18	Masimba	UNKNOWN	Shallow well	5.08172	32.79513	1204	2003	3.5	6	Tanira	4.5	2003	na	na	Unfunctionning	na	na	na	na	na	na
HP-1008	Tabora Urban	Itetemia	Itetemia	18	Masimba	UNKNOWN	Shallow well	5.07685	32.79732	1195	2004	3	6	Tanira	5.1	2004	na	na	Functionning	Milk	Mud	27.2	5.8	ND	5.6
HP-1009	Tabora Urban	Itetemia	Lusangi	8	Igombanilo	110	Deep well	5.16886	32.75421	1166	2004	na	30	Indian Mk-II	na	na	na	na	Functionning	Milky	Salty	27	6.1	0.8	6.28
HP-1010	Tabora Urban	Itetemia	Lusangi	8	Igombanilo	250	Unknown	5.18106	32.75098	1150	2005	na	30	Afridev	na	na	na	na	Functionning	Milky	Fresh	26.4	5.51	0.4	8.15
HP-1011	Tabora Urban	Itetemia	Lusangi	8	kikundi	350	Deep well	5.17854	32.73516	1144	2001	na	30	Indian Mk-II	na	2001	na	na	Functionning	Milky	Fresh	26.2	6.49	0.8	1.894
HP-1012	Tabora Urban	Itetemia	Lusangi	8	kikundi	250	Deep well	5.18846	32.7276	1135	2001	na	30	Indian Mk-II	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1013	Tabora Urban	Itetemia	Lusangi	8	Mtakuja Magharibi	UNKNOWN	Shallow well	5.14613	32.74443	1185	2001	na	30	Indian Mk-II	na	2001	na	24	Functionning	Milky	Fresh	27.4	6.05	ND	7.73
HP-1014	Tabora Urban	Itetemia	Lusangi	8	Mtakuja Magharibi	100	Unknown	5.13854	32.74553	1200	2002	na	30	Indian Mk-II	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1015	Tabora Urban	Itetemia	Lusangi	8	Mtakuja Masharikii	na	Unknown	5.15478	32.75762	1190	2003	na	30	Indian Mk-II	na	2001	na	na	Functionning	Clear	Salty	26.7	5.7	0.6	1.52
HP-1016	Tabora Urban	Itetemia	Lusangi	8	Tiara	295	Deep well	5.15489	32.72576	1143	2001	na	30	Indian Mk-II	na	2001	na	na	Functionning	Clear	Partable	27.6	5.01	0.4	6.27
HP-1017	Tabora Urban	Itetemia	Ntalikwa	6	Imalauduki	UNKNOWN	Deep well	5.14671	32.71105	1147	2001	na	30	Indian Mk-II	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1018	Tabora Urban	Itetemia	Ntalikwa	6	Ntalikwa Kati	UNKNOWN	Unknown	5.11319	32.73984	1203	2003	2.5	6	Tanira	na	2003	na	na	Functionning	MICKY	Fresh	25	6.2	0.4	7.5
HP-1019	Tabora Urban	Itetemia	Ntalikwa	6	Ntalikwa Kati	UNKNOWN	Deep well	5.10094	32.75566	1199	2001	na	30	Indian Mk-II	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1020	Tabora Urban	Itetemia	Ntalikwa	6	Shimo la udongo	UNKNOWN	Deep well	5.12095	32.72084	1171	2001	na	30	Indian Mk-II	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1021	Tabora Urban	Itetemia	Ntalikwa	6	Usenge	na	Unknown	5.07061	32.74354	1196	na	na	30	Tanira	na	2003	na	na	Functionning	Clear	Salty	25.6	6.72	0.8	3.75
HP-1022	Tabora Urban	Itetemia	Ntalikwa	6	Usenge	UNKNOWN	Unknown	5.07739	32.75263	1204	2004	3	6	Tanira	na	2004	na	na	Functionning	milky	Fresh	26.3	6.22	0.4	3.16
HP-1023	Tabora Urban	Itonjanda	Ifucha	5	Ifucha kati	109	Deep well	5.03388	32.93624	1275	2009	na	50	Indian Mk-II	na	2009	na	12	Functionning	Milky	Fresh	27.1	6.9	0.4	9.2
HP-1024	Tabora Urban	Itonjanda	Ifucha	5	Ifucha kati	na	Shallow well	5.03956	32.93615	1266	2003	na	6	no pump	na	2003	na	na	Pump Removed	na	na	na	na	na	na
HP-1025	Tabora Urban	Itonjanda	Ifucha	5	Mizibaziba	na	Deep well	5.04836	32.92007	1243	2008	na	70	Indian Mk-II	na	2008	na	10	Functionning	Milky	Fresh	27.2	7.2	0.4	6.4
HP-1026	Tabora Urban	Itonjanda	Ifucha	5	Ugundu	200	Shallow well	5.0267	32.94481	1264	2003	na	4	no pump	na	2003	na	na	Pump Removed	na	na	na	na	na	na
HP-1027	Tabora Urban	Itonjanda	Ifucha	5	Ugundu	200	Deep well	5.03234	32.95107	1252	2009	na	45	Afridev	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-1028	Tabora Urban	Itonjanda	Itonjanda	7	Itonjanda	200	Shallow well	4.97583	32.95986	1233	2005	na	na	Indian Mk-II	na	2005	2	24	Unfunctionning	na	na	na	na	na	na
HP-1029	Tabora Urban	Itonjanda	Itonjanda	7	Itonjanda	250	Shallow well	4.98229	32.94895	1242	2004	na	na	Indian Mk-II	na	2004	3	24	Functionning	Milky	Tasteless	24	6.3	1.2	15.6
HP-1030	Tabora Urban	Itonjanda	Itonjanda	7	Manoleo	250	Shallow well	4.9786	32.92701	1226	1998	na	na	no pump	na	1998	4	24	Stolen	na	na	na	na	na	na
HP-1031	Tabora Urban	Itonjanda	Itonjanda	7	Manoleo	500	Shallow well	4.98267	32.9248	1221	2006	na	30	no pump	na	2006	5	24	Stolen	Milky	Tasteless	25.5	6.1	0.4	12.68
HP-1032	Tabora Urban	Itonjanda	Itonjanda	7	Manoleo	500	Shallow well	4.97725	32.93199	1247	1990	na	na	no pump	na	1990	3	24	Pump Removed	na	na	na	na	na	na
HP-1033	Tabora Urban	Itonjanda	Itonjanda	7	Nyambele	220	Shallow well	4.97069	32.9494	1245	2003	7.92	na	no pump	na	2003	2	24	Stolen	Milky	Tasteless	25.2	5.9	0.4	12.61
HP-1034	Tabora Urban	Itonjanda	Itonjanda	7	Nyambele	300	Shallow well	4.9663	32.95261	1243	2001	5.3	na	Indian Mk-II	na	2001	5	24	Stolen	Milky	Tasteless	25.4	6.1	0.9	15.68
HP-1035	Tabora Urban	Itonjanda	Kazima	2	Kazima kati	Unknown	Deep well	4.99415	32.88866	1206	1944	na	na	no pump	na	2002	na	na	Pump Removed	na	na	na	na	na	na
HP-1036	Tabora Urban	Itonjanda	Kazima	2	Kazima kati	Unknown	Deep well	4.99753	32.89279	1195	1944	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1037	Tabora Urban	Kakola	Igombe	3	Ikomwa	100	Deep well	4.77268	32.79901	1149	2009	na	na	Indian Mk-II	na	2009	1000	24	Functionning	Clear	Tasteless	25.3	5.7	0.3	7.09
HP-1038	Tabora Urban	Kakola	Igombe	3	Kapunze	120	Deep well	4.741	32.79256	1146	2009	na	na	Indian Mk-III	na	2009	1200	24	Functionning	Clear	Salty	21.9	6.5	0.39	18.23
HP-1039	Tabora Urban	Kakola	Igombe	3	Kapunze	120	Deep well	4.71691	32.77958	1139	2009	na	na	Indian Mk-III	na	2009	1200	24	Functionning	Clear	Tasteless	24.2	5.48	0.144	6.9
HP-1040	Tabora Urban	Kakola	Kakola	1	Kakola	905	Shallow well	4.86728	32.82923	1186	1988	na	6	Indian Mk-II	na	2009	13500	24	Functionning	Milky	Tasteless	24.3	6.1	0.7	8.82

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1041	Tabora Urban	Kakola	Magoweko	1	Magoweko	180	Shallow well	4.84776	32.78716	1158	2008	na	6	Indian Mk-II	na	2008	3	24	Functionning	Milky	Salty	26.4	6.13	0.6	14.94
HP-1042	Tabora Urban	Kalunde	Izimbili	1	Izimbili	na	Unknown	5.00388	32.72611	1184	2006	na	6.5	Indian Mk-II	na	na	na	24	Functionning	Clear	Clear	26.7	5.2	0.4	28
HP-1043	Tabora Urban	Kalunde	Kalunde	8	Block farm	na	Shallow well	4.90981	32.67121	1127	2004	na	6	Afridev	na	2004	na	24	Functionning	Mud	Clear	27.2	5.7	ND	16
HP-1044	Tabora Urban	Kalunde	Kalunde	8	Block farm	na	Shallow well	4.91508	32.65258	1134	2004	na	6	Afridev	na	2004	na	24	Functionning	Mud	Clear	26.8	5.8	ND	17.2
HP-1045	Tabora Urban	Kalunde	Kalunde	8	Block farm	na	Shallow well	4.90359	32.63684	1129	2009	na	6.5	Afridev	na	2009	na	24	Functionning	Clear	Clear	26.8	5.5	0.4	18
HP-1046	Tabora Urban	Kalunde	Kalunde	8	Msangi	na	Shallow well	4.95742	32.66961	1150	1997	na	6	Afridev	na	1997	na	24	Functionning	Clear	Clear	26.2	6.2	0.4	16.2
HP-1047	Tabora Urban	Kalunde	Kalunde	8	Msangi	na	Shallow well	4.95075	32.65995	1150	1997	na	6.5	Afridev	na	1997	na	24	Functionning	Clear	Clear	26.8	5.3	0.4	18.3
HP-1048	Tabora Urban	Kalunde	Kalunde	8	Msangi	na	Shallow well	4.9372	32.64947	1143	1997	na	6.4	Afridev	na	1997	na	24	Functionning	Clear	Clear	26.9	5.4	0.8	19
HP-1049	Tabora Urban	Kalunde	Kalunde	8	Umanda	na	Shallow well	4.87679	32.65935	1133	2009	na	6	Indian Mk-II	na	2009	na	24	Functionning	Clear	Clear	26.4	6.4	0.4	30
HP-1050	Tabora Urban	Kalunde	Kalunde	8	Umanda	na	Shallow well	4.87499	32.64573	1127	2009	na	6.2	Tanira	na	2009	na	24	Functionning	Clear	Clear	26.9	5.6	0.4	22
HP-1051	Tabora Urban	Kalunde	Ulamba	3	Iwonga	UNKNOWN	Shallow well	5.00257	32.74816	1179	na	6.5	na	Indian Mk-II	na	2006	na	na	Functionning	Clear	Clear	26.9	5.8	0.8	6.3
HP-1052	Tabora Urban	Kalunde	Ulamba	3	Upimbili	UNKNOWN	Shallow well	4.98646	32.73108	1159	na	6	na	no pump	na	na	na	na	Under Construction	na	na	na	na	na	na
HP-1053	Tabora Urban	Kalunde	Ulamba	3	Upimbili	UNKNOWN	Shallow well	4.99317	32.7568	1173	na	6.8	na	Indian Mk-II	na	2006	na	na	Functionning	Clear	Clear	26.8	6.2	0.4	12
HP-1054	Tabora Urban	Misha	Igambilo	1	Igambilo kati	1356	Shallow well	4.91246	32.72348	1143	2009	na	na	Indian Mk-II	na	2009	13560	24	Functionning	Milky	Tasteless	26	6.6	1.01	11.15
HP-1055	Tabora Urban	Misha	Kabila	1	Kabila Kati	400	Shallow well	4.84667	32.76693	1185	2009	na	6	Indian Mk-II	na	2009	5	24	Functionning	Clear	Tasteless	26.6	5.2	0.2	13.64
HP-1056	Tabora Urban	Misha	Masagala	3	Lembeli	na	Deep well	4.95323	32.78391	1185	2007	2	na	no pump	na	2007	na	na	Pump Removed	na	na	na	na	na	na
HP-1057	Tabora Urban	Misha	Masagala	3	Masagala Kati	na	Deep well	4.93459	32.80145	1204	2007	na	na	Indian Mk-II	na	2007	na	24	Functionning	Milky	Salty	24.8	6.46	0.56	103.7
HP-1058	Tabora Urban	Misha	Masagala	3	Tumbi	na	Deep well	4.91502	32.79807	1215	2007	na	na	Indian Mk-II	na	2007	na	24	Functionning	Clear	Slightly Salty	25.5	6.66	1.71	51.1
HP-1059	Tabora Urban	Ndevelwa	Inala	5	Ibasa	800	Shallow well	5.12019	32.95776	1204	2008	na	6	Afridev	na	2008	na	24	Unfunctionning	MILKY	Mud	27.7	6.1	0.4	215
HP-1060	Tabora Urban	Ndevelwa	Inala	5	Inala one	600	Shallow well	5.06829	32.91725	1223	2008	na	7	Afridev	na	2008	na	24	Functionning	MILKY	Mud	24.9	5.9	ND	210
HP-1061	Tabora Urban	Ndevelwa	Inala	5	Mkombozi	220	Shallow well	5.10992	32.87613	1198	2008	na	5.9	Afridev	na	2008	na	na	Functionning	na	na	na	na	na	na
HP-1062	Tabora Urban	Ndevelwa	Inala	5	Mkombozi	540	Shallow well	5.10719	32.89385	1212	2008	na	7.2	Indian Mk-II	na	2008	na	na	Functionning	na	na	na	na	na	na
HP-1063	Tabora Urban	Ndevelwa	Inala	5	Shaurimoyo	500	Shallow well	5.0894	32.94195	1225	2008	na	6	Indian Mk-II	na	2008	na	24	Functionning	na	na	na	na	na	na
HP-1064	Tabora Urban	Ndevelwa	Itulu	1	Itulu Station	1400	Shallow well	5.13734	32.85651	1161	2009	na	6	Indian Mk-II	4	2009	na	24	Unfunctionning	MILKY	Mud Taste	25.2	5.2	0.4	120
HP-1065	Tabora Urban	Ndevelwa	Ndevelwa	2	Mishagiwela	na	Deep well	5.1099	32.8763	1207	2008	na	4.5	Afridev	na	2008	na	12	Functionning	Milky	Fresh	27.4	7	0.4	5.4
HP-1066	Tabora Urban	Ndevelwa	Ndevelwa	2	Mishagiwela	na	Shallow well	5.10712	32.89387	1217	2008	na	4	Indian Mk-II	na	2008	na	11	Functionning	Milky	Fresh	27.2	7.2	ND	6.3
HP-1067	Tabora Urban	Tumbi	Tumbi	6	Itema	na	Shallow well	5.17538	32.69727	1141	2008	na	6	Afridev	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-1068	Tabora Urban	Tumbi	Tumbi	6	Kipela Kaskazini	na	Shallow well	5.10383	32.69673	1144	2008	na	6	Afridev	na	na	na	na	Unfunctionning	Mud	Clear	26.8	6.4	0.4	40
HP-1069	Tabora Urban	Tumbi	Tumbi	6	Kipela Kusini	na	Shallow well	5.14446	32.68057	1139	2008	na	6	Afridev	na	na	na	na	Functionning	Mud	Clear	26.8	6.8	0.4	48
HP-1070	Tabora Urban	Tumbi	Tumbi	6	Sokoine	na	Shallow well	5.02219	32.66027	1168	2008	na	6.5	Afridev	na	na	24	na	Functionning	Clear	Clear	26.4	6.2	0.8	25.2
HP-1071	Tabora Urban	Tumbi	Tumbi	6	Tumbi Kibaoni	na	Unknown	5.07702	32.69489	1163	2008	na	6	Indian Mk-II	na	na	na	na	Functionning	Mud	Clear	26.7	5.9	0.8	28
HP-1072	Tabora Urban	Tumbi	Tumbi	6	Tumbi Kibaoni	na	Unknown	5.07523	32.69608	1166	na	na	na	Afridev	na	na	na	na	Functionning	Mud	Clear	26.8	6.1	0.4	30
HP-1073	Tabora Urban	Uyui	Imalamihayo	1	Imalamihayo	2560	Shallow well	4.93956	32.88294	1230	2008	na	6	Indian Mk-II	na	2008	82	24	Functionning	Milky	Salty	24.7	5.9	0.9	10.9
HP-1074	Tabora Urban	Uyui	Uyui	2	Kakulungu	Unknown	Deep well	4.9308	32.83701	1205	2003	na	55	Indian Mk-II	na	2003	na	24	Unfunctionning	na	na	na	na	na	na
HP-1075	Tabora Urban	Uyui	Uyui	2	Maendeleo	Unknown	Deep well	4.945	32.83281	1193	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Milky	Tasteless	25.2	5.6	0.67	19.7
HP-1076	Tabora Urban	Uyui	Kalumwa	1	Kalumwa	3000	Deep well	4.88345	32.86124	1168	2008	na	6	Indian Mk-II	na	2008	3	24	Functionning	Milky	Salty and Odour	24.4	5.9	0.7	15.08
HP-1077	Urambo	Ichemba	Ichemba	3	Ichemba	na	Shallow well	4.74781	32.36944	1112	2009	na	8	Tanira	7	2009	na	12	Functionning	Clear	Fresh	26.5	6.3	0.4	6.3
HP-1078	Urambo	Ichemba	Ichemba	3	Ichemba	na	Deep well	4.75045	32.35714	1133	1998	na	68	Afridev	65	na	na	8	Functionning	Clear	Fresh	26.5	6.3	0.4	6.3
HP-1079	Urambo	Ichemba	Ichemba	3	Ichemba	na	Shallow well	4.73953	32.35005	1129	2009	na	7	Tanira	6	2009	na	na	Under Construction	na	na	na	na	na	na
HP-1080	Urambo	Ichemba	Makingi	3	Iwembuka	na	Shallow well	4.67389	32.27571	1113	1980	na	8	no pump	7	1980	na	na	Pump Removed	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1081	Urambo	Ichemba	Makingi	3	Makingi	na	Deep well	4.67445	32.28951	1112	2005	na	60	Indian Mk-II	59	2005	na	12	Functionning	Clear	Fresh	28.5	6.3	0.4	4.5
HP-1082	Urambo	Ichemba	Makingi	3	Usigala	na	Deep well	4.70553	32.31185	1118	1999	na	65	Afridev	63	1999	na	8	Functionning	Clear	Salty	27.5	6.9	0.8	32
HP-1083	Urambo	Igagala	Kamsekwa	1	Kamsekwa	3000	Deep well	4.92432	31.69371	1110	2009	na	na	Afridev	2009	2009	1050	24	Unfunctionning	na	na	na	na	na	na
HP-1084	Urambo	Igagala	Kazana Upate	4	Kazana Upate	1336	Deep well	4.93562	31.5932	1098	2008	na	120	Indian Mk-II	na	2008	320	24	Unfunctionning	na	na	na	na	na	na
HP-1085	Urambo	Igagala	Kazana Upate	4	Kazana Upate	1336	Shallow well	4.93531	31.58742	1090	2006	na	na	Tanira	na	2006	na	24	Unfunctionning	na	na	na	na	na	na
HP-1086	Urambo	Igagala	Kazana Upate	4	Kazana Upate	1336	Deep well	4.93371	31.60381	1094	1973	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1087	Urambo	Igagala	Kazana Upate	4	Kazana Upate	1336	Deep well	4.93364	31.60374	1094	1973	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1088	Urambo	Igagala	Mpwaga	2	Kanoge	650	Shallow well	4.92078	31.67208	1098	2006	na	3.8	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1089	Urambo	Igagala	Mpwaga	2	Mpwaga	600	Shallow well	4.93634	31.68179	1087	2008	na	3.4	Afridev	na	2008	120	24	Unfunctionning	Milky	Salty	26.4	6.7	0.36	28.7
HP-1090	Urambo	Igagala	Mtakuja	2	Igalala No. 6	2300	Shallow well	4.93073	31.62133	1097	2008	na	50	Afridev	na	2008	630	24	Functionning	Milky	Tasteless	26.1	6.4	0.2	9.2
HP-1091	Urambo	Igagala	Mtakuja	2	Igalala No. 6	2300	Shallow well	4.91572	31.63356	1103	2008	na	54	Afridev	na	2008	630	24	Unfunctionning	na	na	na	na	na	na
HP-1092	Urambo	Imalamakoye	Imalamakoye	6	Imalamakoye C	792	Shallow well	5.10932	32.08618	1101	na	na	na	Afridev	na	2009	158.4	12	Under Construction	na	na	na	na	na	na
HP-1093	Urambo	Imalamakoye	Imalamakoye	6	Imalamakoye C	792	Shallow well	5.10624	32.08822	1120	2009	na	na	Afridev	na	2009	158.4	24	Unfunctionning	na	na	na	na	na	na
HP-1094	Urambo	Imalamakoye	Imalamakoye	6	Imalamakoye C	793	Shallow well	5.10188	32.08589	1118	na	na	na	no pump	na	na	158.4	na	Pump Removed	na	na	na	na	na	na
HP-1095	Urambo	Imalamakoye	Imalamakoye	6	Imalamakoye D	878	Shallow well	5.10859	32.10002	1113	na	na	na	Shinyanga pump	na	1974	175.6	na	Unfunctionning	na	na	na	na	na	na
HP-1096	Urambo	Imalamakoye	Imalamakoye	6	Imalamakoye D	878	Shallow well	5.10833	32.10831	1104	na	na	na	no pump	na	na	175.6	na	Pump Removed	na	na	na	na	na	na
HP-1097	Urambo	Imalamakoye	Imalamakoye	6	Imalamakoye D	915	Shallow well	5.10725	32.07065	1107	2005	6.2	na	no pump	na	na	183	na	Pump Removed	Clear	Tasteless	25.7	6.1	0.086	11.4
HP-1098	Urambo	Imalamakoye	Itebulanda	2	Itebulanda	2000	Shallow well	5.20273	32.08471	1098	2008	na	na	Tanira	na	2008	240	12	Functionning	Clear	Tasteless	27	5.4	0.085	62
HP-1099	Urambo	Imalamakoye	Itebulanda	2	Mafwengi	2000	Deep well	5.20849	32.07949	1097	2008	na	na	Indian Mk-II	na	2008	240	12	Functionning	Clear	Tasteless	26.8	5.7	0.165	15
HP-1100	Urambo	Imalamakoye	Nsenda	1	Mlimani	750	Shallow well	5.18349	32.08313	1103	2006	na	na	Afridev	na	2006	125	24	Unfunctionning	na	na	na	na	na	na
HP-1101	Urambo	Itundu	Itundu	14	Barabarani	7600	Deep well	5.08864	32.15067	1101	na	na	na	Afridev	na	na	1900	24	Functionning	Clear	Salty	26.4	5.9	0.19	23.3
HP-1102	Urambo	Itundu	Itundu	14	Barabarani	7600	Deep well	5.08245	32.15135	1106	na	na	na	Afridev	na	na	1900	24	Functionning	Clear	Slightly Salty	25.9	6.1	0.162	25
HP-1103	Urambo	Itundu	Itundu	14	Barabarani	7600	Deep well	5.08303	32.1591	1106	na	na	na	Afridev	na	na	1900	24	Functionning	Clear	Salty	26.5	5.4	0.065	15
HP-1104	Urambo	Itundu	Itundu	14	Barabarani	7600	Shallow well	5.09078	32.15538	1103	na	na	na	no pump	na	na	1900	na	Pump Removed	na	na	na	na	na	na
HP-1105	Urambo	Itundu	Itundu	14	Barabarani	7600	Deep well	5.08777	32.16477	1101	na	na	na	no pump	na	na	1900	na	Pump Removed	na	na	na	na	na	na
HP-1106	Urambo	Itundu	Itundu	14	Barabarani	7600	Shallow well	5.09064	32.15805	1100	na	3.4	na	no pump	na	na	1900	na	Pump Removed	Milky	Tasteless	26.3	5.8	0.038	6.4
HP-1107	Urambo	Itundu	Itundu	14	Barabarani	7600	Shallow well	5.08843	32.16057	1097	1974	na	na	no pump	na	1974	1900	na	Pump Removed	na	na	na	na	na	na
HP-1108	Urambo	Itundu	Itundu	14	Barabarani	7600	Shallow well	5.09082	32.15535	1104	1974	na	na	Afridev	na	1974	1900	na	Unfunctionning	na	na	na	na	na	na
HP-1109	Urambo	Itundu	Itundu	14	Barabarani	7600	Shallow well	5.08337	32.15798	1106	1974	na	na	no pump	na	1974	1900	na	Pump Removed	na	na	na	na	na	na
HP-1110	Urambo	Itundu	Itundu	14	Geradi	650	Shallow well	5.04889	32.14935	1132	2002	na	na	Afridev	na	2002	1900	24	Functionning	Clear	Tasteless	26.7	6.2	0.23	40
HP-1111	Urambo	Itundu	Itundu	14	Geradi	650	Deep well	5.05477	32.14116	1127	2002	na	na	Afridev	na	2002	na	24	Functionning	Clear	Slightly Saly	26.9	6.2	0.11	15
HP-1112	Urambo	Itundu	Itundu	14	Iyolelo	na	Deep well	5.06195	32.1561	1122	2001	na	na	Afridev	na	2001	na	24	Functionning	Clear	Salty	26.8	6.8	0.065	62
HP-1113	Urambo	Itundu	Itundu	14	Iyolelo	na	Deep well	5.06664	32.15961	1121	2001	na	na	Afridev	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1114	Urambo	Itundu	Itundu	14	Matwiga	650	Deep well	5.07903	32.13725	1103	2001	na	na	Afridev	na	2001	na	24	Functionning	Clear	Slightly Saly	27.1	6.5	0.189	22
HP-1115	Urambo	Itundu	Kitete	4	Ilani	na	Deep well	5.03344	32.17369	1140	2003	na	200	Tanira	na	2002	na	24	Functionning	Clear	Tasteless	26.7	6.4	0.098	24
HP-1116	Urambo	Itundu	Kitete	4	Ilani	na	Deep well	5.03542	32.16127	1143	2003	na	na	Tanira	na	2002	na	24	Functionning	Clear	Tasteless	26.9	6.2	0.116	32
HP-1117	Urambo	Itundu	Kitete	4	Kitete	na	Deep well	5.02741	32.18687	1139	2002	na	200	Afridev	na	2002	na	24	Functionning	Clear	Tasteless	26.7	5.9	0.162	16
HP-1118	Urambo	Itundu	Kitete	4	Kitete	na	Deep well	5.03283	32.18998	1134	2002	na	200	Afridev	na	2002	na	24	Functionning	Clear	Salty	26.4	6.8	0.1103	62
HP-1119	Urambo	Itundu	Mongwa	3	Makaoni	762	Shallow well	5.08574	32.1702	1103	1974	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1120	Urambo	Itundu	Mongwa	3	Makaoni	762	Shallow well	5.06373	32.17498	1124	1974	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na

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Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1121	Urambo	Itundu	Mongwa	3	Makaoni	762	Shallow well	5.06433	32.17844	1124	1981	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1122	Urambo	Itundu	Wema	2	Wema A	572	Shallow well	5.17596	32.14167	1109	na	7.2	na	no pump	na	2005	na	12	Pump Removed	Clear	Tasteless	26.2	5	0.017	23
HP-1123	Urambo	Itundu	Wema	2	Wema A	572	Shallow well	5.16921	32.13093	1111	2008	na	na	Afridev	na	2008	200	24	Functionning	Clear	Tasteless	26.4	5.4	0.031	15
HP-1124	Urambo	Kaliua	Ilindwanoni	5	Mtapenda	1771	Deep well	5.04001	31.70268	1088	2008	na	na	Afridev	na	2008	344	24	Unfunctionning	na	na	na	na	na	na
HP-1125	Urambo	Kaliua	Ilindwanoni	5	Muungano	1114	Deep well	5.03748	31.73544	1086	2009	na	na	Indian Mk-II	na	2009	222	24	Functionning	Clear	Little Salty	26.4	6.8	0.2	21.4
HP-1126	Urambo	Kaliua	Ilindwanoni	5	Muungano	1114	Shallow well	5.03441	31.72979	1084	2007	na	na	Indian Mk-II	na	2007	222	24	Functionning	Clear	Little Salty	27.1	6.4	0.198	18.2
HP-1127	Urambo	Kaliua	Ilindwanoni	5	Mwangaza	537	Deep well	5.042	31.73427	1083	2008	na	na	Afridev	na	2008	107	24	Unfunctionning	na	na	na	na	na	na
HP-1128	Urambo	Kaliua	Ilindwanoni	5	Mwangaza	537	Deep well	5.03794	31.73599	1091	1998	na	na	no pump	na	1998	107	24	Pump Removed	na	na	na	na	na	na
HP-1129	Urambo	Kaliua	Kaliua Magharibi	2	Kapuya	7600	Shallow well	5.0565	31.78927	1079	1999	na	na	no pump	na	na	2280	na	Pump Removed	Clear	Tasteless	26.9	5.6	1.2	15.6
HP-1130	Urambo	Kaliua	Kaliua Magharibi	2	Kapuya	7600	Shallow well	5.0568	31.78924	1079	1999	na	na	Tanira	na	2003	2280	24	Unfunctionning	na	na	na	na	na	na
HP-1131	Urambo	Kaliua	Kaliua Masharik	3	Umoja	na	Deep well	5.04943	31.7976	1082	2006	na	na	no pump	na	2006	na	24	Pump Removed	na	na	na	na	na	na
HP-1132	Urambo	Kaliua	Kaliua Masharik	3	Umoja	na	Deep well	5.04406	31.80138	1086	2001	na	na	Indian Mk-II	na	2001	na	24	Unfunctionning	na	na	na	na	na	na
HP-1133	Urambo	Kaliua	Kaliua Masharik	3	Umoja	na	Deep well	5.04392	31.8019	1084	2009	na	na	Indian Mk-II	na	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-1134	Urambo	Kaliua	Kasungu	3	Kasisi	270	Deep well	4.99182	31.76794	1097	2003	na	na	Tanira	na	2003	48	24	Functionning	Clear	Little Salty	26.4	6.8	0.34	32
HP-1135	Urambo	Kaliua	Kasungu	3	Kasungu Kati	613	Deep well	5.01643	31.80344	1100	2009	na	na	Indian Mk-II	na	2009	123	24	Functionning	Clear	Salty	26.8	6.4	0.24	62.1
HP-1136	Urambo	Kaliua	Kasungu	3	Kasungu Kati	613	Shallow well	5.01346	31.80541	1097	2005	na	na	no pump	na	na	123	na	Pump Removed	na	na	na	na	na	na
HP-1137	Urambo	Kapilula	Kapilula	6	Mlimani	na	Shallow well	5.0938	32.10835	1109	na	na	na	Shinyanga pump	na	na	320	na	Unfunctionning	na	na	na	na	na	na
HP-1138	Urambo	Kapilula	Kapilula	6	Usongelani	na	Shallow well	5.08552	32.10931	1123	na	na	na	no pump	na	na	320	na	Pump Removed	na	na	na	na	na	na
HP-1139	Urambo	Kapilula	Kapilula	6	Usongelani	na	Shallow well	5.08022	32.10911	1116	na	na	na	no pump	na	na	320	na	Pump Removed	na	na	na	na	na	na
HP-1140	Urambo	Kapilula	Kapilula	6	Usongelani	na	Shallow well	5.08008	32.10552	1115	na	na	na	no pump	na	na	320	na	Pump Removed	na	na	na	na	na	na
HP-1141	Urambo	Kapilula	Kapilula	6	Usongelani	na	Shallow well	5.07768	32.10764	1117	na	na	na	no pump	na	na	320	na	Pump Removed	Clear	Tasteless	26.6	6.3	0.143	9.3
HP-1142	Urambo	Kapilula	Kapilula	6	Usongelani	na	Shallow well	5.07634	32.10815	1117	na	3.8	na	Tanira	2008	2008	320	na	Unfunctionning	na	na	na	na	na	na
HP-1143	Urambo	Kapilula	Ulasa A	4	Ulasa A	412	Shallow well	5.06586	32.09994	1128	na	na	na	no pump	na	na	82.4	na	Pump Removed	na	na	na	na	na	na
HP-1144	Urambo	Kapilula	Ulasa A	4	Ulasa B	372	Shallow well	5.06779	32.10189	1130	na	na	na	Afridev	na	2009	75	24	Unfunctionning	na	na	na	na	na	na
HP-1145	Urambo	Kapilula	Ulasa A	4	Ulasa B	372	Shallow well	5.07227	32.10478	1126	na	na	na	Shinyanga pump	na	na	75	na	Unfunctionning	na	na	na	na	na	na
HP-1146	Urambo	Kapilula	Ulasa A	4	Ulasa C	156	Shallow well	5.07603	32.10343	1121	na	na	na	no pump	na	2009	32	na	Pump Removed	na	na	na	na	na	na
HP-1147	Urambo	Kapilula	Ulasa B	7	Relini	na	Shallow well	5.06935	32.11576	1111	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1148	Urambo	Kapilula	Ulasa B	7	Uswahilini	na	Shallow well	5.05701	32.12558	1138	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1149	Urambo	Kapilula	Ulasa B	7	Uswahilini	na	Shallow well	5.04837	32.11991	1127	na	na	na	Shinyanga pump	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-1150	Urambo	Kapilula	Ulasa B	7	Uswahilini	na	Shallow well	5.05266	32.12846	1139	1987	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1151	Urambo	Kapilula	Ulasa B	7	Uswahilini	na	Shallow well	5.05282	32.12292	1126	na	na	na	Shinyanga pump	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-1152	Urambo	Kapilula	Ulasa B	7	Uswahilini	na	Shallow well	5.05225	32.12497	1128	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1153	Urambo	Kapilula	Ulasa B	7	Utemini	na	Shallow well	5.04134	32.13099	1132	na	na	na	Shinyanga pump	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-1154	Urambo	Kashishi	Bulela	4	Bulela	3832	Shallow well	4.32128	32.22137	1149	2007	na	na	Tanira	na	2007	na	24	Functionning	Clear	Tasteless	25.6	6.74	0.34	84.2
HP-1155	Urambo	Kashishi	Bulela	4	Nyasa	455	Shallow well	4.32795	32.24556	1146	2006	na	na	Afridev	na	2006	na	24	Functionning	Milky	Tasteless	24.7	6.08	0.2	14.86
HP-1156	Urambo	Kashishi	Bulela	4	Nyasa	455	Shallow well	4.30559	32.25508	1150	2006	na	na	Afridev	na	2006	na	24	Functionning	Milky	Tasteless	24.9	6.67	0.38	36.1
HP-1157	Urambo	Kashishi	Bulela	4	Nyasa	455	Shallow well	4.31585	32.26371	1183	2009	na	na	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-1158	Urambo	Kashishi	Busondi	6	Busondi	na	Shallow well	4.40211	32.29665	1176	2003	na	3.5	Tanira	na	2003	na	na	Pump Removed	Milky	Little Salty	25.2	6.1	0.191	17.2
HP-1159	Urambo	Kashishi	Busondi	6	Busondi	na	Shallow well	4.39092	32.27725	1192	2003	na	3.5	no pump	na	2003	na	na	Stolen	na	na	na	na	na	na
HP-1160	Urambo	Kashishi	Busondi	6	Malinga	na	Deep well	4.39182	32.31974	1184	2004	na	55	Afridev	na	2004	na	24	Functionning	Clear	Tasteless	25.6	6.3	0.11	23

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1161	Urambo	Kashishi	Busondi	6	Malinga	na	Shallow well	4.41607	32.31426	1172	2003	na	6.5	Tanira	na	2003	na	na	Functionning	Clear	Tasteless	25.4	6.2	0.18	32
HP-1162	Urambo	Kashishi	Busondi	6	Toroma	na	Shallow well	4.34647	32.368	1162	2003	na	3.5	ST	na	2003	na	na	Stolen	na	na	na	na	na	na
HP-1163	Urambo	Kashishi	Busondi	6	Toroma	na	Shallow well	4.34309	32.35834	1158	2003	na	3.5	ST	na	2003	na	na	Stolen	na	na	na	na	na	na
HP-1164	Urambo	Kashishi	Ilege	8	Itangwa	na	Shallow well	4.44069	32.27105	1177	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Tasteless	25.5	6.2	0.05	20
HP-1165	Urambo	Kashishi	Ilege	8	Mpagasha	na	Deep well	4.44961	32.35119	1171	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Tasteless	27.5	6.3	0.27	93
HP-1166	Urambo	Kashishi	Ilege	8	Mpagasha	na	Shallow well	4.43442	32.35279	1178	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Tasteless	27.1	6.1	0.2	104
HP-1167	Urambo	Kashishi	Ilege	8	Shindeni	na	Deep well	4.44465	32.28248	1191	2007	na	na	Afridev	na	2007	na	na	Unfunctionning	na	na	na	na	na	na
HP-1168	Urambo	Kashishi	Ilege	8	Shindeni	na	Shallow well	4.41591	32.28027	1184	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Tasteless	25.2	6.4	0.057	17.5
HP-1169	Urambo	Kashishi	Ilege	8	Simkule	na	Shallow well	4.43533	32.30957	1172	2006	na	na	Tanira	na	2006	na	na	Unfunctionning	na	na	na	na	na	na
HP-1170	Urambo	Kashishi	Ilege	8	Simkule	na	Shallow well	4.45267	32.27504	1210	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Tasteless	26.1	5.8	0.08	24
HP-1171	Urambo	Kashishi	Ilege	8	Simkule	na	Shallow well	4.44462	32.36347	1189	2006	na	na	Afridev	na	2006	na	24	Functionning	Milky	Salty	26.8	6.2	0.45	23.8
HP-1172	Urambo	Kashishi	Iyombo	4	Ibulwa	280	Deep well	4.3572	32.43221	1146	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Salty	26	5.9	0.027	70
HP-1173	Urambo	Kashishi	Iyombo	4	Iyombo	190	Shallow well	4.43762	32.42427	1178	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Tasteless	26	6.3	0.36	18.7
HP-1174	Urambo	Kashishi	Iyombo	4	Nyambula	307	Deep well	4.37506	32.45288	1146	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Sailty	25.3	6.3	0.33	80
HP-1175	Urambo	Kashishi	Iyombo	4	Wendele	304	Shallow well	4.41115	32.45169	1159	2006	na	na	Tanira	na	2006	na	24	Functionning	Milky	Salty	25.9	6.5	0.26	75
HP-1176	Urambo	Kashishi	Kagera	2	Kagera A	564	Deep well	4.38897	32.46186	1145	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Tasteless	26.1	5.8	0.21	31.8
HP-1177	Urambo	Kashishi	Kagera	2	Kawe	216	Deep well	4.40463	32.42286	1177	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Tasteless	26.2	6.4	0.18	12.4
HP-1178	Urambo	Kashishi	Kashishi	6	Kinamagila	na	Shallow well	4.41808	32.38492	1172	2004	na	4	Tanira	na	2004	na	24	Functionning	Milky	Little Salty	27.1	6.4	0.1	62
HP-1179	Urambo	Kashishi	Kashishi	6	Kinamagila	na	Shallow well	4.41572	32.39738	1176	2004	na	6.5	Tanira	na	2004	na	24	Functionning	Milky	Little Salty	27	6.2	0.197	35.4
HP-1180	Urambo	Kashishi	Kashishi	6	Lingukwa	na	Deep well	4.36138	32.34495	1196	2004	na	33	Afridev	na	2004	na	24	Unfunctionning	na	na	na	na	na	na
HP-1181	Urambo	Kashishi	Kashishi	6	Lingukwa	na	Shallow well	4.36462	32.33036	1192	2003	na	4	ST	na	2003	na	24	Stolen	na	na	na	na	na	na
HP-1182	Urambo	Kashishi	Kashishi	6	Ukungura	na	Shallow well	4.41147	32.35614	1164	2003	na	3.5	Tanira	na	2003	na	24	Functionning	Clear	Tasteless	26.8	5.8	0.12	19.7
HP-1183	Urambo	Kashishi	Kashishi	6	Ugundu	na	Shallow well	4.3616	32.40176	1161	2003	na	3.5	Tanira	na	2003	na	24	Functionning	Milky	Little Salty	26.9	6.2	0.152	29
HP-1184	Urambo	Kashishi	King'wangoko	8	King'wangoko	1400	Shallow well	4.3922	32.24094	1178	2006	na	3.5	Tanira	na	2003	na	12	Functionning	Turbid	Tasteless	24.8	5.7	0.12	96
HP-1185	Urambo	Kashishi	King'wangoko	8	Majengo A	920	Shallow well	4.40629	32.2665	1160	2006	na	3.5	Tanira	na	2003	na	12	Functionning	Clear	Tasteless	26.1	5.7	0.092	21
HP-1186	Urambo	Kashishi	King'wangoko	8	Majengo B	870	Shallow well	4.40366	32.26904	1164	2006	na	3.5	Tanira	na	2008	630	12	Functionning	Clear	Tasteless	25.4	6.1	0.063	8.02
HP-1187	Urambo	Kashishi	King'wangoko	8	Mlulli	615	Shallow well	4.35926	32.23432	1186	2006	na	3.5	Tanira	na	2003	na	12	Functionning	mud	Little Salty	26.3	6.2	0.192	15
HP-1188	Urambo	Kashishi	King'wangoko	8	Mtilingi	708	Shallow well	4.43934	32.23187	1181	2006	na	3.5	Tanira	na	2003	na	12	Functionning	Clear	Tasteless	24.8	5.8	0.11	62
HP-1189	Urambo	Kashishi	King'wangoko	8	Mononga	532	Shallow well	4.40446	32.2125	1150	2006	na	3.5	Tanira	na	2003	na	12	Functionning	Clear	Tasteless	25.1	6.4	0.198	72
HP-1190	Urambo	Kashishi	King'wangoko	8	Shininga	732	Shallow well	4.45705	32.23315	1134	2006	na	3.5	Tanira	na	2003	na	12	Functionning	Turbid	Little Salty	24.7	5.5	0.066	9.26
HP-1191	Urambo	Kashishi	King'wangoko	8	Shininga	732	Shallow well	4.44467	32.20955	1117	2006	na	3.5	Tanira	na	2003	na	12	Functionning	Turbid	Tasteless	25.3	6.2	0.052	31
HP-1192	Urambo	Kashishi	Mgiri	2	Busubi	605	Shallow well	4.37916	32.28524	1168	2006	na	3.5	Tanira	na	2003	na	12	Functionning	Clear	Tasteless	26.4	6.7	0.087	51
HP-1193	Urambo	Kashishi	Mgiri	2	Kilimawe	627	Shallow well	4.43943	32.24637	1142	2006	na	3.5	Tanira	na	2003	na	12	Functionning	Clear	Tasteless	25.1	6.1	0.194	12
HP-1194	Urambo	Kashishi	Mwendakulima	11	Katala	600	Shallow well	4.34351	32.28646	1183	2006	na	na	Tanira	na	2006	na	24	Functionning	Milky	Salty	25	6.35	0.35	21.5
HP-1195	Urambo	Kashishi	Mwendakulima	11	Kidete	150	Deep well	4.34076	32.30816	1197	2007	na	na	Tanira	na	2007	na	24	Functionning	Clear	Tasteless	26.2	6.04	0.21	27.5
HP-1196	Urambo	Kashishi	Mwendakulima	11	Kidete	150	Deep well	4.34771	32.3322	1195	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Tasteless	27.1	6.24	0.32	38.9
HP-1197	Urambo	Kashishi	Mwendakulima	11	Kidete	224	Deep well	4.3599	32.32607	1192	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Tasteless	26.8	6.72	0.135	41.7
HP-1198	Urambo	Kashishi	Mwendakulima	11	Kidete	224	Shallow well	4.36276	32.29941	1170	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Tasteless	26.4	6.62	0.147	52.7
HP-1199	Urambo	Kashishi	Mwendakulima	11	Mhanga	424	Deep well	4.30818	32.31342	1179	2007	na	na	Afridev	na	2007	na	24	Functionning	Slightly Milky	Tasteless	26.9	6.19	0.23	5.96
HP-1200	Urambo	Kashishi	Mwendakulima	11	Mhanga	424	Shallow well	4.29122	32.31293	1154	2006	na	na	Tanira	na	2006	na	24	Functionning	Milky	Tasteless	25.4	5.83	0.195	12.7

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1201	Urambo	Kashishi	Mwendakulima	11	Mhanga	424	Shallow well	4.27582	32.29755	1135	2006	na	na	Tanira	na	2006	na	24	Functionning	Milky	Tasteless	27.9	6.3	0.095	14.43
HP-1202	Urambo	Kashishi	Mwendakulima	11	Mhanga	424	Shallow well	4.33296	32.31092	1208	2006	na	na	Tanira	na	2006	na	24	Functionning	Milky	Tasteless	26.5	5.95	0.105	17.3
HP-1203	Urambo	Kashishi	Mwendakulima	11	Mwendakulima	400	Deep well	4.28008	32.32722	1125	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Salty	24.9	4.46	0.104	21.9
HP-1204	Urambo	Kashishi	Mwendakulima	11	Mwendakulima	400	Deep well	4.35495	32.29466	1177	2006	na	na	Afridev	na	2006	na	24	Functionning	Clear	Salty	25.4	6.15	0.29	26.9
HP-1205	Urambo	Kashishi	Nyasa	2	Itumbo	na	Deep well	4.30499	32.25874	1148	2008	na	na	Tanira	na	2008	na	24	Functionning	Clear	Salty	25.5	6.03	0.31	38.6
HP-1206	Urambo	Kashishi	Nyasa	2	Msoke	995	Deep well	4.27566	32.27904	1118	2008	na	na	Tanira	na	2008	na	24	Functionning	Clear	Tasteless	24.2	5.71	0.26	96.5
HP-1207	Urambo	Kashishi	Sasu	8	Bulinda	na	Shallow well	4.50457	32.34488	1161	2006	na	na	Tanira	na	2006	na	na	Unfunctionning	na	na	na	na	na	na
HP-1208	Urambo	Kashishi	Sasu	8	Bulinda	na	Shallow well	4.44308	32.32308	1149	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Salty	26.5	5.2	0.3	19.8
HP-1209	Urambo	Kashishi	Sasu	8	Ibilingo	na	Deep well	4.49177	32.33434	1156	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Tasteless	25.9	6.3	0.17	15
HP-1210	Urambo	Kashishi	Sasu	8	Ibilingo	na	Shallow well	4.48438	32.34259	1156	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Tasteless	26.6	6.1	0.28	23.4
HP-1211	Urambo	Kashishi	Sasu	8	Kitenge	na	Shallow well	4.43302	32.2536	1141	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Tasteless	24.9	5.7	0.073	11.3
HP-1212	Urambo	Kashishi	Sasu	8	Sasu A	na	Deep well	4.46137	32.3174	1179	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Sailty	26.2	6.3	0.12	45
HP-1213	Urambo	Kashishi	Sasu	8	Sasu A	na	Deep well	4.46439	32.33128	1135	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Little Salty	25.8	5.7	0.23	62.6
HP-1214	Urambo	Kashishi	Sasu	8	Sasu B	na	Deep well	4.48317	32.29111	1163	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Salty	27.1	5.9	0.37	22.5
HP-1215	Urambo	Kashishi	Seleli	8	Buchama	180	Shallow well	4.36723	32.31703	1172	2006	na	na	Tanira	na	2006	na	24	Functionning	Clear	Tasteless	26.9	6.01	0.136	43.6
HP-1216	Urambo	Kashishi	Seleli	8	Buchama	180	Shallow well	4.38193	32.31006	1170	2006	na	na	Tanira	na	2006	na	na	Abandoned	na	na	na	na	na	na
HP-1217	Urambo	Kashishi	Seleli	8	Kasongo	339	Shallow well	4.29503	32.33402	1140	2006	na	na	Tanira	na	2006	na	na	Unfunctionning	na	na	na	na	na	na
HP-1218	Urambo	Kashishi	Seleli	8	Kasongo	339	Shallow well	4.31635	32.29048	1200	2006	na	na	Tanira	na	2006	na	24	Functionning	Milky	Tasteless	27	6.08	0.09	5.74
HP-1219	Urambo	Kashishi	Seleli	8	Luguma	367	Shallow well	4.32829	32.35482	1152	2006	na	na	Tanira	na	2006	na	24	Functionning	Slightly Milky	Tasteless	25.1	5.37	0.192	13.6
HP-1220	Urambo	Kashishi	Seleli	8	Luguma	367	Shallow well	4.30771	32.35342	1135	2006	na	na	Tanira	na	2006	na	24	Functionning	Yellowish	Salty	26.9	6.71	0.2	34.2
HP-1221	Urambo	Kashishi	Seleli	8	Seleli	405	Deep well	4.31226	32.32709	1173	2007	na	na	Afridev	na	2007	na	24	Functionning	Milky	Tasteless	25	6.83	0.26	21.2
HP-1222	Urambo	Kashishi	Seleli	8	Seleli	405	Deep well	4.33702	32.33057	1191	2007	na	na	Afridev	na	2007	na	24	Functionning	Slightly Milky	Tasteless	24.3	6.19	0.16	44.8
HP-1223	Urambo	Kazaroho	Igwisi	2	Imalampaka	na	Shallow well	4.92499	31.89847	1121	2009	na	na	Afridev	na	2009	na	24	Unfunctionning	Clear	Tasteless	26	5.9	0.027	70
HP-1224	Urambo	Kazaroho	Igwisi	2	Twende pamoja	na	Shallow well	4.91697	31.9027	1124	2009	na	na	Afridev	na	2009	na	24	Unfunctionning	Clear	Tasteless	26	5.9	0.027	70
HP-1225	Urambo	Kazaroho	Imalamihayo	8	Imalamihayo A	1057	Shallow well	5.00893	31.86646	1109	2009	na	na	Afridev	na	2009	264	24	Unfunctionning	na	na	na	na	na	na
HP-1226	Urambo	Kazaroho	Imalamihayo	8	Imalamihayo A	1057	Shallow well	5.0111	31.8556	1102	na	6.4	na	no pump	na	na	na	na	Pump Removed	Clear	Tasteless	26.2	5.6	0.032	15
HP-1227	Urambo	Kazaroho	Imalamihayo	8	Imalamihayo A	1057	Shallow well	5.01136	31.86309	1104	na	6	na	no pump	na	na	264	na	Pump Removed	Clear	Tasteless	25.8	6.2	0.052	21
HP-1228	Urambo	Kazaroho	Imalamihayo	8	Imalamihayo B	925	Shallow well	5.00843	31.85515	1098	2009	na	na	Afridev	na	2009	na	24	Unfunctionning	na	na	na	na	na	na
HP-1229	Urambo	Kazaroho	Imalamihayo	8	Imalamihayo B	925	Shallow well	5.01318	31.85865	1105	2009	na	na	Tanira	na	2005	231	24	Functionning	Clear	Tasateless	27.2	4.9	0.012	19
HP-1230	Urambo	Kazaroho	Imalamihayo	8	Imalamihayo B	925	Shallow well	5.01188	31.85869	1102	2005	na	na	Tanira	na	2005	231	24	Functionning	Clear	Tasteless	27.6	4.6	0.0047	8.7
HP-1231	Urambo	Kazaroho	Imalamihayo	8	Imalamihayo B	925	Shallow well	5.0149	31.85639	1102	na	5.9	na	no pump	na	na	231	na	Pump Removed	Clear	Tasteless	26.1	5.6	0.061	18
HP-1232	Urambo	Kazaroho	Imalamihayo	8	Imalamihayo B	925	Shallow well	5.01342	31.85632	1103	na	7	na	no pump	na	na	231	na	Pump Removed	Clear	Tasteless	25.4	5.6	0.07	15.3
HP-1233	Urambo	Kazaroho	Kazaroho	2	Kazaroho Magharibi	na	Deep well	4.98062	31.84624	1108	2005	na	na	Afridev	na	2005	na	25	Unfunctionning	na	na	na	na	na	na
HP-1234	Urambo	Kazaroho	Kazaroho	2	Kazaroho Mashariki	na	Deep well	4.98919	31.85712	1119	2005	na	na	Afridev	na	2005	na	24	Unfunctionning	na	na	na	na	na	na
HP-1235	Urambo	Kazaroho	Usimba	4	Usimba B	na	Deep well	5.01054	31.92054	1134	na	na	na	Tanira	na	na	250	24	Functionning	Clear	Little Salty	26.7	6.1	0.092	112.9
HP-1236	Urambo	Kazaroho	Usimba	4	Usimba B	na	Shallow well	5.01104	31.92291	1134	2009	na	na	Afridev	na	na	250	na	Unfunctionning	na	na	na	na	na	na
HP-1237	Urambo	Kazaroho	Usimba	4	Usimba C	na	Deep well	5.00566	31.92617	1131	2005	na	na	Tanira	na	2005	250	24	Functionning	Clear	Tasteless	28	6.2	0.14	43
HP-1238	Urambo	Kazaroho	Usimba	4	Usimba D	na	Deep well	5.00761	31.93162	1134	na	na	na	Tanira	na	na	250	24	Functionning	Clear	Little Salty	27	6.3	0.18	31.8
HP-1239	Urambo	Kiloleni	Kalembela	1	Nyerere	na	Shallow well	5.01286	32.29042	1145	2009	na	na	Tanira	na	2009	300	24	Functionning	Milky	Tasteless	27.2	6.2	0.156	9
HP-1240	Urambo	Kiloleni	Kiloleni	7	Kiloleni A	na	Deep well	5.02171	32.31409	1152	2009	na	na	Indian Mk-II	na	2009	200	na	Unfunctionning	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordidnates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1241	Urambo	Kiloleni	Kiloleni	7	Kiloleni A	na	Shallow well	5.02157	32.31428	1153	2006	na	na	Afridev	na	2006	200	24	Unfunctionning	na	na	na	na	na	na
HP-1242	Urambo	Kiloleni	Kiloleni	7	Kiloleni A	na	Shallow well	5.01052	32.31057	1137	1982	3.9	na	no pump	na	na	200	24	Pump Removed	Clear	Little Salty	26.4	6.3	0.23	19.41
HP-1243	Urambo	Kiloleni	Kiloleni	7	Kiloleni A	na	Shallow well	5.01616	32.32466	1128	1982	na	na	no pump	na	na	200	na	Pump Removed	na	na	na	na	na	na
HP-1244	Urambo	Kiloleni	Kiloleni	7	Kiloleni A	na	Shallow well	5.0232	32.32298	1131	1982	na	na	no pump	na	na	200	na	Pump Removed	Clear	Tasteless	26.5	6.5	0.12	32
HP-1245	Urambo	Kiloleni	Kiloleni	7	Kiloleni B	na	Shallow well	5.04211	32.33403	1129	1982	na	na	no pump	na	na	200	na	Pump Removed	na	na	na	na	na	na
HP-1246	Urambo	Kiloleni	Kiloleni	7	Kiloleni B	na	Shallow well	5.04969	32.33878	1132	1982	na	na	no pump	na	na	200	na	Pump Removed	mud	Tasteless	26.8	6.1	0.0654	17.2
HP-1247	Urambo	Kiloleni	Kinhwa	1	Mapambano	na	Shallow well	5.04126	32.35703	1137	2006	6	na	Afridev	na	2006	na	24	Unfunctionning	Clear	Tasteless	25.8	6.1	0.08	6.15
HP-1248	Urambo	Muungano	Kalemela A	13	Kati	na	Deep well	4.99688	32.0531	1142	na	na	na	Afridev	na	na	na	24	Unfunctionning	na	na	na	na	na	na
HP-1249	Urambo	Muungano	Kalemela A	13	Kati	na	Deep well	5.0003	32.05634	1135	na	na	na	Afridev	na	na	na	24	Functionning	Milky	Tasteless	25.6	5.6	0.152	20
HP-1250	Urambo	Muungano	Kalemela A	13	Kusini	na	Deep well	5.02838	32.03862	1113	na	na	na	Afridev	na	na	na	24	Functionning	Clear	Tasteless	26.3	5.9	0.125	26.5
HP-1251	Urambo	Muungano	Kalemela A	13	Magharibi A	na	Shallow well	4.99158	32.04001	1149	na	na	na	Afridev	na	na	na	24	Unfunctionning	na	na	na	na	na	na
HP-1252	Urambo	Muungano	Kalemela A	13	Magharibi B	na	Deep well	4.98994	32.04418	1144	na	na	na	Indian Mk-II	na	na	na	24	Unfunctionning	na	na	na	na	na	na
HP-1253	Urambo	Muungano	Kalemela A	13	Magharibi B	na	Deep well	4.96775	32.0095	1121	na	na	na	Afridev	na	na	na	24	Functionning	Milky	Tasteless	26.6	5.8	0.1	14.7
HP-1254	Urambo	Muungano	Kalemela A	13	Magharibi B	na	Deep well	5.00216	32.03379	1129	na	na	na	Afridev	na	na	na	24	Functionning	Clear	Tasteless	26.9	6.2	0.115	70.2
HP-1255	Urambo	Muungano	Kalemela A	13	Magharibi B	na	Deep well	5.01937	32.03566	1124	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1256	Urambo	Muungano	Kalemela A	13	Mashariki A	na	Deep well	5.00714	32.05744	1144	na	na	na	no pump	na	na	na	na	Pump Removed	Milky	Tasteless	26.8	6.2	0.147	16.7
HP-1257	Urambo	Muungano	Kalemela A	13	Mashariki A	na	Shallow well	4.95824	32.02345	1119	na	na	na	Afridev	na	na	na	24	Unfunctionning	Milky	Tasteless	27	5.8	0.037	11.8
HP-1258	Urambo	Muungano	Kalemela A	13	Mashariki A	na	Deep well	5.01403	32.04673	1126	na	na	na	Afridev	na	na	na	24	Functionning	Clear	Iron	28	6.2	0.104	88.5
HP-1259	Urambo	Muungano	Kalemela A	13	Mashariki A	na	Shallow well	5.00868	32.04655	1138	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1260	Urambo	Muungano	Kalemela A	13	Mashariki A	na	Shallow well	5.01934	32.05576	1129	na	na	na	Afridev	na	na	na	24	Functionning	Clear	Tasteless	28	6.3	0.15	28
HP-1261	Urambo	Muungano	Kalemela B	3	Mwangaza A	na	Deep well	5.01137	32.00478	1132	na	na	na	Afridev	na	na	na	24	Functionning	Clear	Salty	27	5.6	0.0195	8.1
HP-1262	Urambo	Muungano	Kalemela B	3	Mwangaza A	na	Deep well	5.02158	32.00653	1136	na	na	na	Tanira	na	na	na	24	Functionning	Clear	Tasteless	27.3	5.7	0.072	8.8
HP-1263	Urambo	Muungano	Kalemela B	3	Mwangaza A	na	Shallow well	5.02276	31.99607	1138	na	na	na	Tanira	na	na	na	24	Functionning	Clear	Tasteless	26.5	6.3	0.23	21
HP-1264	Urambo	Muungano	Muungano	10	Mtakuja A	745	Shallow well	5.00043	32.19933	1131	2001	na	na	Tanira	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1265	Urambo	Muungano	Muungano	10	Mtakuja A	745	Deep well	5.00432	32.18225	1128	2001	na	na	Afridev	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1266	Urambo	Muungano	Muungano	10	Mtakuja B	230	Deep well	5.02766	32.15095	1148	2001	na	na	Afridev	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1267	Urambo	Muungano	Muungano	10	Mtakuja B	230	Deep well	5.03239	32.15257	1150	2001	na	na	Indian Mk-II	na	2001	na	24	Functionning	Clear	Salty	27	6.34	0.187	97.3
HP-1268	Urambo	Muungano	Muungano	10	Mtukula	690	Deep well	5.01254	32.1435	1152	2001	na	na	Indian Mk-III	na	2001	na	na	Functionning	Clear	Tasteless	26.7	6.06	0.155	22.1
HP-1269	Urambo	Muungano	Muungano	10	Mtukula	690	Deep well	5.01121	32.15076	1149	2001	na	na	Afridev	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1270	Urambo	Muungano	Muungano	10	Usukumani	300	Shallow well	4.98158	32.12959	1135	2001	na	na	Tanira	na	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1271	Urambo	Muungano	Muungano	10	Uswahilini	300	Deep well	5.02758	32.12836	1145	2001	na	na	Afridev	na	2001	na	24	Functionning	Clear	Salty	26.5	6.2	0.24	107
HP-1272	Urambo	Muungano	Muungano	10	Uswahilini	300	Deep well	5.02675	32.14133	1147	2001	na	na	Indian Mk-III	na	2001	na	24	Unfunctionning	na	na	na	na	na	na
HP-1273	Urambo	Muungano	Muungano	10	Uswahilini	300	Deep well	5.02103	32.13241	1150	2001	na	na	Afridev	na	2001	na	24	Unfunctionning	na	na	na	na	na	na
HP-1274	Urambo	Mwongozo	Ibambo	1	Unyamwezini	na	Shallow well	4.80862	32.42141	1119	2008	na	8	Tanira	6	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-1275	Urambo	Mwongozo	Kanoge	1	Chemchemi	na	Deep well	4.78996	32.33037	1178	1998	na	68	SWN-80	65	1998	na	12	Functionning	Clear	Fresh	26.8	6.8	0.4	4.6
HP-1276	Urambo	Mwongozo	Mwongozo	4	Kiloleni	na	Deep well	4.78084	32.38816	1126	2008	na	60	Afridev	58	2008	na	8	Functionning	Clear	Salty	26.5	7.2	0.8	23
HP-1277	Urambo	Mwongozo	Mwongozo	4	Mlambo	na	Shallow well	4.80656	32.39515	1136	2009	na	6	Tanira	5	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-1278	Urambo	Mwongozo	Mwongozo	4	Mlambo	na	Deep well	4.80459	32.39775	1129	2008	na	35	Afridev	33	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-1279	Urambo	Mwongozo	Mwongozo	4	Mlambo	na	Shallow well	4.80489	32.39802	1128	2004	na	8	Tanira	6	2004	na	12	Functionning	Clear	Fresh	27	6.3	ND	4.1
HP-1280	Urambo	Songambele	Igengensabo	2	Uyogo K	na	Deep well	4.84009	32.00701	1117	2005/2006	na	na	Afridev	na	2005/2006	na	24	Unfunctionning	Clear	Little Salty	26.7	5.9	0.29	52.8

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1281	Urambo	Songambele	Igengensabo	2	Uyogo K	na	Deep well	4.84074	32.03514	1093	2005/2006	na	na	Afridev	na	2005/2006	na	24	Functionning	Clear	Little Salty	25.1	6.1	0.41	32
HP-1282	Urambo	Songambele	Igunguli	6	Imalanguzu	na	Deep well	4.83654	32.08779	1109	na	na	na	Afridev	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-1283	Urambo	Songambele	Igunguli	6	Maendeleo	na	Shallow well	4.79398	32.07731	1126	2006	na	40	Afridev	na	na	na	24	Functionning	Clear	Salty	27.5	6.1	0.13	15
HP-1284	Urambo	Songambele	Igunguli	6	Majengo	na	Deep well	4.82882	32.07268	1110	na	na	na	Afridev	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-1285	Urambo	Songambele	Igunguli	6	Majengo	na	Deep well	4.83034	32.07457	1107	na	na	na	Afridev	na	na	na	24	Functionning	Clear	Tasteless	26.1	5.9	0.11	150
HP-1286	Urambo	Songambele	Igunguli	6	Mapinduzi	na	Deep well	4.80304	32.13324	1124	na	na	na	Afridev	na	na	na	24	Functionning	Clear	Tasteless	26.8	6.5	0.095	103
HP-1287	Urambo	Songambele	Igunguli	6	Mapinduzi	na	Deep well	4.80181	32.1041	1128	na	na	na	Afridev	na	na	na	24	Functionning	Clear	Tasteless	27.2	6.1	0.12	89
HP-1288	Urambo	Songambele	Jionee mwenyewe	4	Farm 24	na	Deep well	4.91216	32.13364	1105	2005	na	65	Afridev	na	2005	na	14	Functionning	Clear	Tasteless	25.9	6.09	0.141	56.1
HP-1289	Urambo	Songambele	Jionee mwenyewe	4	Mazengo	na	Deep well	4.93332	32.16288	1096	2005	na	na	Afridev	na	2005	na	14	Functionning	Clear	Tasteless	26.2	5.78	0.132	50.1
HP-1290	Urambo	Songambele	Jionee mwenyewe	4	Mazengo	na	Deep well	4.93354	32.17392	1108	2005	na	na	Afridev	na	2005	na	14	Functionning	Clear	Tasteless	26.1	6.49	0.106	61.2
HP-1291	Urambo	Songambele	Jionee mwenyewe	4	Ututivu	na	Deep well	4.94883	32.14715	1112	2005	na	na	Afridev	na	2005	na	14	Functionning	Clear	Tasteless	25.6	5.41	0.141	69.2
HP-1292	Urambo	Songambele	Milambo	1	Wela	na	Deep well	4.75183	32.00926	1110	na	na	na	Afridev	na	na	na	na	Functionning	Clear	Salty	26.8	6.3	0.116	145
HP-1293	Urambo	Songambele	Mangane	6	Mangane	na	Deep well	4.91193	32.20734	1114	2005	na	na	Afridev	na	2005	na	14	Functionning	Milky	Tasteless	26.5	5.83	0.087	61.1
HP-1294	Urambo	Songambele	Mangane	6	Mangane	na	Shallow well	4.88688	32.21178	1102	2005	na	2.5	Tanira	na	2005	na	14	Functionning	Milky	Tasteless	25.8	5.76	0.132	82.5
HP-1295	Urambo	Songambele	Mangane	6	Nyakabagwe	na	Shallow well	4.81669	32.18447	1119	2005	na	na	Tanira	na	2005	na	14	Functionning	Milky	Tasteless	26.2	5.4	0.055	54
HP-1296	Urambo	Songambele	Mangane	6	Nyerere	na	Deep well	4.93815	32.16004	1113	2005	na	na	Afridev	na	2005	na	14	Functionning	Clear	Tasteless	26.2	5.75	0.153	51.9
HP-1297	Urambo	Songambele	Mangane	6	Nyerere	na	Shallow well	4.94124	32.15529	1110	2005	na	na	Tanira	na	2005	na	14	Functionning	Clear	Tasteless	26.7	5.18	0.182	52.9
HP-1298	Urambo	Songambele	Mangane	6	Ukwanga	na	Shallow well	4.86369	32.1895	1102	2005	na	3	Tanira	na	2005	na	14	Functionning	Milky	Tasteless	25.5	5.83	0.073	74.4
HP-1299	Urambo	Songambele	Songambele	8	Farm 21	na	Shallow well	4.90811	32.10626	1114	2006/2007	na	na	Afridev	na	2006/2007	na	24	Functionning	Clear	Salty	27.4	6.1	0.0925	147
HP-1300	Urambo	Songambele	Songambele	8	Kati	na	Shallow well	4.92182	32.10193	1119	2006/2007	na	na	Afridev	na	2006/2007	na	24	Unfunctionning	na	na	na	na	na	na
HP-1301	Urambo	Songambele	Songambele	8	Kusini	na	Deep well	4.94267	32.10409	1142	2006/2007	na	na	Afridev	na	2006/2007	na	24	Unfunctionning	na	na	na	na	na	na
HP-1302	Urambo	Songambele	Songambele	8	Magharibi	na	Shallow well	4.94374	32.08268	1128	2006/2007	na	na	Afridev	na	2006/2007	na	24	Functionning	Clear	Little Salty	26.9	6.6	0.2	76.5
HP-1303	Urambo	Songambele	Songambele	8	Magharibi	na	Deep well	4.94147	32.0918	1137	2006/2007	na	na	Afridev	na	2006/2007	na	24	Unfunctionning	na	na	na	na	na	na
HP-1304	Urambo	Songambele	Songambele	8	Masharikii	na	Deep well	4.93148	32.10853	1132	2006/2007	na	na	Afridev	na	2006/2007	na	24	Functionning	Clear	Tasteless	27.6	5.6	0.076	112
HP-1305	Urambo	Songambele	Songambele	8	Mtakuja	na	Deep well	4.90377	32.07618	1117	2006/2007	na	na	Afridev	na	2006/2007	na	24	Functionning	Milky	Tasteless	27.1	5.7	0.15	73.2
HP-1306	Urambo	Songambele	Songambele	8	Mtakuja	na	Shallow well	4.91496	32.09639	1117	2006/2007	na	na	Afridev	na	2006/2007	na	24	Functionning	Clear	Salty	27.8	6.4	0.21	37.5
HP-1307	Urambo	Songambele	Uyogo	8	Kasela	na	Deep well	4.92678	31.96707	1111	2005/2006	na	na	Tanira	na	2005/2006	na	24	Functionning	Clear	Little Salty	25.4	5.4	0.33	39.2
HP-1308	Urambo	Songambele	Uyogo	8	Uyogo D	na	Deep well	4.92738	31.99759	1102	2005/2006	na	na	Tanira	na	2005/2006	na	24	Functionning	Clear	Tasteless	24.9	6.2	0.32	178
HP-1309	Urambo	Songambele	Uyogo	8	Uyogo D	na	Deep well	4.91909	31.97883	1100	2005/2006	na	na	Tanira	na	2005/2006	na	24	Functionning	Milky	Tasteless	25.6	6.5	0.28	43.4
HP-1310	Urambo	Songambele	Uyogo	8	Uyogo magharibi	na	Deep well	4.91463	32.01199	1093	2005/2006	na	na	Afridev	na	2005/2006	na	24	Functionning	Clear	Tasteless	24.9	5.8	0.17	98
HP-1311	Urambo	Songambele	Uyogo	8	Uyogo magharibi	na	Deep well	4.91608	32.01105	1091	2005/2006	na	na	Tanira	na	2005/2006	na	24	Functionning	Milky	Tasteless	24.1	5.6	0.046	54
HP-1312	Urambo	Songambele	Uyogo	8	Uyogo masharikii	na	Deep well	4.90531	32.03029	1108	2005/2006	na	na	Tanira	na	2005/2006	na	24	Functionning	Milky	Salty	26.1	5.9	0.35	189
HP-1313	Urambo	Songambele	Uyogo	8	Uyogo masharikii	na	Deep well	4.91918	32.03887	1106	2005/2006	na	na	Tanira	na	2005/2006	na	24	Functionning	Clear	Salty	25.9	6.3	0.57	27.2
HP-1314	Urambo	Songambele	Uyogo	8	Uyogo masharikii	na	Shallow well	4.91114	32.03369	1118	2005/2006	na	na	Afridev	na	2005/2006	na	24	Unfunctionning	na	na	na	na	na	na
HP-1315	Urambo	Ugunga	Limbula	2	Limbula A	360	Deep well	5.1218	31.74015	1068	2005	na	na	Tanira	na	2005	108	12	Functionning	Clear	Salty	27.1	5.9	0.4	52.4
HP-1316	Urambo	Ugunga	Limbula	2	Limbula B	287	Deep well	5.13782	31.71061	1072	2005	na	na	Afridev	na	2005	108	12	Functionning	Clear	Salty	27.6	5.9	0.21	67
HP-1317	Urambo	Ugunga	Tuombe Mungu	4	Kaskazini	620	Shallow well	5.0779	31.71419	1076	2009	na	na	Tanira	na	2009	124	24	Functionning	Clear	Salty	27.2	6.5	0.2	24
HP-1318	Urambo	Ugunga	Tuombe Mungu	4	Kusini	715	Deep well	5.09018	31.70813	1088	na	na	na	Afridev	na	na	146	24	Unfunctionning	na	na	na	na	na	na
HP-1319	Urambo	Ugunga	Tuombe Mungu	4	Kusini	715	Deep well	5.09593	31.70686	1084	na	na	na	Tanira	na	na	146	24	Functionning	Clear	Salty	26.8	6.8	0.52	95
HP-1320	Urambo	Ugunga	Tuombe Mungu	4	Kusini	715	Shallow well	5.09801	31.70804	1082	na	na	na	no pump	na	na	146	24	Pump Removed	Clear	Salty	27.4	7.2	0.11	72

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1321	Urambo	Ugunga	Ugunga	4	Ugunga Kijijini	520	Deep well	5.07027	31.75035	1081	na	na	na	Tanira	na	2005	104	12	Functionning	Clear	Tasteless	27.8	5.8	0.6	92
HP-1322	Urambo	Ugunga	Ugunga	4	Ugunga Kijijini	520	Shallow well	5.06933	31.75677	1079	1973	na	na	Afridev	na	na	104	24	Unfunctionning	na	na	na	na	na	na
HP-1323	Urambo	Ugunga	Ugunga	4	Ugunga Kijijini	520	Shallow well	5.06668	31.74306	1079	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1324	Urambo	Ugunga	Ugunga	4	Ugunga Kijijini	520	Shallow well	5.07841	31.75662	1072	1973	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1325	Urambo	Ukondamoyo	Ifuta	7	Kiloleni	na	Shallow well	5.18239	31.9293	1082	1981	na	na	no pump	na	na	200	na	Pump Removed	na	na	na	na	na	na
HP-1326	Urambo	Ukondamoyo	Ifuta	7	Kiloleni	na	Shallow well	5.18374	31.92468	1083	1981	na	na	no pump	na	na	200	na	Pump Removed	na	na	na	na	na	na
HP-1327	Urambo	Ukondamoyo	Ifuta	7	Kiloleni	na	Shallow well	5.18871	31.92589	1081	1981	na	na	no pump	na	na	200	na	Pump Removed	na	na	na	na	na	na
HP-1328	Urambo	Ukondamoyo	Ifuta	7	Kiloleni	na	Deep well	5.17983	31.9305	1079	2008	na	na	Indian Mk-II	na	2008	200	24	Functionning	Clear	Tasteless	26.2	5.6	0.045	126.4
HP-1329	Urambo	Ukondamoyo	Ifuta	7	Satini	na	Shallow well	5.18777	31.94078	1085	1981	na	na	no pump	na	na	200	na	Pump Removed	na	na	na	na	na	na
HP-1330	Urambo	Ukondamoyo	Ifuta	7	Satini	na	Shallow well	5.18435	31.93417	1085	1981	na	na	no pump	na	na	200	na	Pump Removed	na	na	na	na	na	na
HP-1331	Urambo	Ukondamoyo	Ifuta	7	Utebe	na	Deep well	5.25141	31.9161	1071	2008	na	na	Indian Mk-II	na	2008	200	24	Functionning	Clear	Tasteless	26	5.8	0.052	132
HP-1332	Urambo	Ukondamoyo	Tumaini	3	Mabatini	na	Shallow well	5.16644	32.00523	1098	2008	na	na	Afridev	na	2008	260	na	Unfunctionning	na	na	na	na	na	na
HP-1333	Urambo	Ukondamoyo	Tumaini	3	Magereza	na	Shallow well	5.16469	32.03628	1100	na	7.4	na	no pump	na	na	320	na	Pump Removed	Clear	Tasteless	25.2	5.6	0.056	13
HP-1334	Urambo	Ukondamoyo	Tumaini	3	Magereza	na	Deep well	5.18111	32.03817	1094	na	na	na	no pump	na	na	320	na	Pump Removed	na	na	na	na	na	na
HP-1335	Urambo	Ukondamoyo	Ukondamoyo	1	Farma 8	927	Deep well	5.15299	31.96062	1082	2009	na	90	Indian Mk-II	na	2009	185	12	Functionning	Clear	Tasteless	26.3	6.2	0.158	20.8
HP-1336	Urambo	Ukumbisiganga	Kangeme	4	Kangeme kaskazini	1625	Shallow well	5.42145	31.57935	1094	na	na	na	Tanira	na	na	325	24	Unfunctionning	na	na	na	na	na	na
HP-1337	Urambo	Ukumbisiganga	Kangeme	4	Kangeme kaskazini	1625	Shallow well	5.42115	31.58056	1092	na	na	na	Tanira	na	na	325	24	Unfunctionning	na	na	na	na	na	na
HP-1338	Urambo	Ukumbisiganga	Kangeme	4	Kangeme kusini	2470	Shallow well	5.42431	31.58079	1093	na	na	na	no pump	na	na	495	na	Pump Removed	na	na	na	na	na	na
HP-1339	Urambo	Ukumbisiganga	Kangeme	4	Kangeme kusini	2470	Deep well	5.42276	31.58045	1093	2008	na	na	Indian Mk-II	na	2008	495	24	Unfunctionning	na	na	na	na	na	na
HP-1340	Urambo	Ukumbisiganga	Lumbe	6	Lumbe CCM	na	Deep well	5.50222	31.49831	1062	2009	na	na	Indian Mk-II	na	2009	230	24	Functionning	Clear	Tasteless	25.8	6.9	0.4	67.8
HP-1341	Urambo	Ukumbisiganga	Lumbe	6	Lumbe CCM	na	Shallow well	5.50061	31.49927	1064	2003	na	na	Tanira	na	2003	230	24	Unfunctionning	na	na	na	na	na	na
HP-1342	Urambo	Ukumbisiganga	Lumbe	6	Lumbe Station	na	Shallow well	5.49775	31.49302	1061	na	na	na	Tanira	na	na	230	24	Functionning	Turbid	Tasteless	26.1	6.2	0.2	12.3
HP-1343	Urambo	Ukumbisiganga	Lumbe	6	Lumbe Station	na	Shallow well	5.49732	31.49728	1061	na	na	na	Tanira	na	na	230	24	Functionning	Clear	Tasteless	26.3	6.7	0.3	18.7
HP-1344	Urambo	Ukumbisiganga	Lumbe	6	Lumbe Station	na	Shallow well	5.4965	31.49742	1060	na	na	na	Tanira	na	na	230	24	Unfunctionning	na	na	na	na	na	na
HP-1345	Urambo	Ukumbisiganga	Lumbe	6	Lumbe Station	na	Shallow well	5.49564	31.50194	1059	2003	na	na	no pump	na	2003	230	24	Pump Removed	na	na	na	na	na	na
HP-1346	Urambo	Ukumbisiganga	Ukumbi Kakoko	2	Ukumbi Mashariki	260	Shallow well	5.72992	31.20775	1087	2003	na	3.6	Tanira	na	2003	26	24	Unfunctionning	na	na	na	na	na	na
HP-1347	Urambo	Ukumbisiganga	Ukumbi Kakoko	2	Ukumbi Mashariki	120	Shallow well	5.73386	31.20993	1077	2003	na	3.6	Tanira	na	2003	12	25	Unfunctionning	na	na	na	na	na	na
HP-1348	Urambo	Ukumbisiganga	Ukumbisiganga	5	CCM	1185	Shallow well	5.49076	31.50751	1076	na	na	2.15	Afridev	na	na	390	24	Unfunctionning	na	na	na	na	na	na
HP-1349	Urambo	Ukumbisiganga	Ukumbisiganga	5	Mandela	578	Shallow well	5.484	31.52591	1069	na	na	na	Afridev	na	na	190	24	Functionning	Clear	Tasteless	25.8	5.8	0.2	12.28
HP-1350	Urambo	Ukumbisiganga	Ukumbisiganga	5	Mashariki	1123	Shallow well	5.49361	31.52228	1067	2008	na	na	Afridev	na	na	370	24	Functionning	Clear	Tasteless	25.9	5.9	0.21	10.38
HP-1351	Urambo	Ukumbisiganga	Ukumbisiganga	5	Mashariki	1123	Shallow well	5.49182	31.52254	1065	na	na	na	Afridev	na	na	370	24	Unfunctionning	na	na	na	na	na	na
HP-1352	Urambo	Ukumbisiganga	Ukumbisiganga	5	Shuleni	1136	Shallow well	5.49674	31.51089	1077	na	na	na	Afridev	na	na	375	24	Functionning	Clear	Tasteless	25.5	5.78	0.141	10.87
HP-1353	Urambo	Ukumbisiganga	Usinga	5	Usinga Kati	110	Shallow well	5.66688	31.27874	1112	2003	na	na	Afridev	na	na	22	na	Unfunctionning	na	na	na	na	na	na
HP-1354	Urambo	Ukumbisiganga	Usinga	5	Usinga Kati	110	Shallow well	5.66833	31.28128	1116	2003	na	2.15	Afridev	na	na	22	na	Unfunctionning	na	na	na	na	na	na
HP-1355	Urambo	Ukumbisiganga	Usinga	5	Usinga Kati	110	Shallow well	5.6711	31.28877	1117	2003	na	na	Afridev	na	na	22	na	Unfunctionning	na	na	na	na	na	na
HP-1356	Urambo	Ukumbisiganga	Usinga	5	Usinga Kilometa 78	80	Deep well	5.66717	31.28278	1117	2009	na	na	Afridev	na	na	16	24	Functionning	Clear	Little Salty	25.6	6.3	0.3	65.7
HP-1357	Urambo	Ukumbisiganga	Usinga	5	Usinga Kilometa 78	80	Shallow well	5.65975	31.2827	1111	2003	na	na	Afridev	na	na	16	na	Unfunctionning	na	na	na	na	na	na
HP-1358	Urambo	Ukumbisiganga	Zugimole	5	Luyembe	na	Shallow well	5.21299	31.70803	1066	2003	na	na	no pump	na	2003	na	na	Pump Removed	na	na	na	na	na	na
HP-1359	Urambo	Ukumbisiganga	Zugimole	5	Usimba	na	Shallow well	5.24137	31.7594	1081	2003	na	na	no pump	na	2003	na	na	Pump Removed	na	na	na	na	na	na
HP-1360	Urambo	Ukumbisiganga	Zugimole	5	Usimba	na	Shallow well	5.2502	31.75455	1073	2003	na	na	no pump	na	2003	na	na	Pump Removed	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordidnates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1361	Urambo	Ukumbisiganga	Zugimole	5	Zugimole Kaskazini	na	Shallow well	5.32187	31.64852	1094	2003	na	na	no pump	na	2003	na	na	Pump Removed	na	na	na	na	na	na
HP-1362	Urambo	Ukumbisiganga	Zugimole	5	Zugimole Kusini	na	Shallow well	5.3227	31.65022	1098	2003	na	na	no pump	na	2003	na	na	Pump Removed	na	na	na	na	na	na
HP-1363	Urambo	Urambo	Urambo Kati	3	Kati kusini	na	Deep well	5.06837	32.0666	1111	2009	na	na	Indian Mk-II	na	2009	na	24	Functionning	Clear	Salty	29.9	4.63	0.089	78.7
HP-1364	Urambo	Urambo	Urambo Kati	3	Kati kusini	na	Shallow well	5.06833	32.06685	1111	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1365	Urambo	Urambo	Urambo Kati	3	Kati kusini	na	Shallow well	5.06915	32.06843	1121	na	na	na	no pump	na	na	na	na	Abandoned	na	na	na	na	na	na
HP-1366	Urambo	Urambo	Urambo Kusini	2	Boma Village	na	Shallow well	5.07072	32.06745	1114	1995	na	na	Indian Mk-II	na	1995	na	na	Unfunctionning	na	na	na	na	na	na
HP-1367	Urambo	Urambo	Urambo Kusini	2	Boma Village	na	Deep well	5.07127	32.0687	1114	1978	na	na	no pump	na	1978	na	na	Pump Removed	na	na	na	na	na	na
HP-1368	Urambo	Urambo	Urambo Magharibi	2	Magharibi kusini	na	Deep well	5.06299	32.06597	1104	2009	na	na	Indian Mk-II	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-1369	Urambo	Urambo	Urambo Magharibi	2	Magharibi kusini	na	Shallow well	5.06529	32.06309	1105	1997	3.8	na	Afridev	na	1997	na	na	Unfunctionning	Clear	Salty	28.8	5.4	0.065	66.6
HP-1370	Urambo	Urambo	Urambo Masharik	4	Shimoni	na	Shallow well	5.06852	32.07606	1117	1998	na	na	Indian Mk-II	na	1998	na	na	Unfunctionning	na	na	na	na	na	na
HP-1371	Urambo	Urambo	Urambo Masharik	4	Urambo mama	na	Shallow well	5.06656	32.07669	1112	2008	na	na	Tanira	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-1372	Urambo	Urambo	Urambo Masharik	4	Urambo mama	na	Deep well	5.06838	32.08414	1110	2008	na	na	Indian Mk-II	na	2008	na	24	Functionning	Milky	Tasteless	27.3	6.17	0.127	135
HP-1373	Urambo	Urambo	Urambo Masharik	4	Urambo mama	na	Deep well	5.06966	32.08241	1119	2008	na	na	Indian Mk-II	na	2008	na	na	Unfunctionning	na	na	na	na	na	na
HP-1374	Urambo	Ushokola	Imalaupina	5	Imalaupina Magharibi	1750	Shallow well	5.15579	31.79152	1087	2007	na	12	Afridev	na	2007	700	24	Unfunctionning	na	na	na	na	na	na
HP-1375	Urambo	Ushokola	Imalaupina	5	Imalaupina Masharik	1030	Shallow well	5.15448	31.79763	1090	2008	na	na	Tanira	na	2008	412	24	Unfunctionning	na	na	na	na	na	na
HP-1376	Urambo	Ushokola	Imalaupina	5	Makubi	1750	Shallow well	5.22412	31.75959	1077	2003	na	na	no pump	na	2003	700	na	Pump Removed	na	na	na	na	na	na
HP-1377	Urambo	Ushokola	Imalaupina	5	Swampu	2100	Shallow well	5.21432	31.84121	1076	na	na	na	no pump	na	na	840	na	Pump Removed	na	na	na	na	na	na
HP-1378	Urambo	Ushokola	Imalaupina	5	Swampu	2100	Shallow well	5.2187	31.84539	1072	2003	na	na	Tanira	na	2003	840	24	Unfunctionning	na	na	na	na	na	na
HP-1379	Urambo	Ushokola	Isanjandugu	1	Isanjandugu Magharibi	1820	Deep well	5.08132	31.82349	1078	2003	na	na	Tanira	na	2003	273	24	Functionning	Clear	Tasteless	26.2	6.4	0.4	24.8
HP-1380	Urambo	Ushokola	Pozamoyo	6	Nkolonkosho	1890	Deep well	5.10118	31.78587	1096	2008	na	56	Indian Mk-II	na	2008	189	24	Functionning	Grey	Salty	24.5	7.7	0.26	46.9
HP-1381	Urambo	Ushokola	Pozamoyo	6	Pozamoyo Magharibi	1500	Deep well	5.09593	31.78517	1097	2008	na	60	no pump	na	2008	150	na	Pump Removed	na	na	na	na	na	na
HP-1382	Urambo	Ushokola	Pozamoyo	6	Pozamoyo Magharibi	1500	Shallow well	5.09895	31.78217	1093	1970	na	na	Shinyanga pump	na	1970	150	na	Unfunctionning	na	na	na	na	na	na
HP-1383	Urambo	Ushokola	Pozamoyo	6	Pozamoyo Mashariki	1300	Shallow well	5.0982	31.78667	1094	1970	na	na	no pump	na	1970	130	na	Pump Removed	na	na	na	na	na	na
HP-1384	Urambo	Ushokola	Pozamoyo	6	Pozamoyo Mashariki	1300	Shallow well	5.09339	31.78744	1092	1970	na	na	Shinyanga pump	na	1970	130	na	Unfunctionning	na	na	na	na	na	na
HP-1385	Urambo	Ushokola	Pozamoyo	6	Pozamoyo Mifugoni	1100	Deep well	5.08479	31.79279	1084	2008	na	40	Indian Mk-II	na	2008	110	24	Functionning	Clear	Tasteless	24.3	6.5	0.165	31.2
HP-1386	Urambo	Ushokola	Ushokola	2	Kilometa 2	1800	Deep well	5.06365	31.79314	1085	1998	na	na	Indian Mk-II	na	1998	360	24	Functionning	Clear	Little Salty	25.2	8.4	0.61	89
HP-1387	Urambo	Ushokola	Ushokola	2	Kusini	1500	Deep well	5.07606	31.79215	1083	1998	na	na	Indian Mk-II	na	1998	300	24	Unfunctionning	na	na	na	na	na	na
HP-1388	Urambo	Ushokola	Usindi	1	Usindi Kati	2100	Deep well	5.0855	31.84667	1079	2008	na	na	Indian Mk-II	na	2008	210	24	Functionning	Clear	Tasteless	25.1	5.8	0.172	28.7
HP-1389	Urambo	Usinge	Kombe	7	Kombe Kaskazini	10000	Deep well	5.04605	31.53548	1083	2002	na	120	Afridev	na	2002	320	24	Functionning	Clear	Tasteless	26.5	6.1	0.194	112
HP-1390	Urambo	Usinge	Kombe	7	Kombe Kaskazini	10000	Deep well	5.0588	31.54194	1084	2002	na	120	Afridev	na	2002	320	24	Unfunctionning	na	na	na	na	na	na
HP-1391	Urambo	Usinge	Kombe	7	Kombe Kusini	10000	Shallow well	5.06036	31.53494	1085	1975	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1392	Urambo	Usinge	Kombe	7	Kombe Kusini	10000	Deep well	5.06316	31.53427	1082	2002	na	120	Afridev	na	na	320	24	Functionning	Clear	Tasteless	26.7	6.7	0.11	184
HP-1393	Urambo	Usinge	Kombe	7	Kombe Kusini	10000	Deep well	5.06373	31.53257	1081	2002	na	120	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1394	Urambo	Usinge	Kombe	7	Kombe Kusini	10000	Shallow well	5.06585	31.53597	1081	1978	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1395	Urambo	Usinge	Kombe	7	Kombe Kusini	10000	Shallow well	5.06584	31.53598	1081	1978	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1396	Urambo	Usinge	Luganjo	1	Kilolelen i	860	Shallow well	5.14966	31.31123	1124	2009	na	na	Tanira	na	2009	344	12	Functionning	Milky	Clear	27.7	6.2	0.08	9.5
HP-1397	Urambo	Usinge	Usinge	9	Majengo Kigoma	1135	Shallow well	5.0937	31.29786	1065	na	na	na	no pump	na	na	170	24/d	Pump Removed	na	na	na	na	na	na
HP-1398	Urambo	Usinge	Usinge	9	Majengo Tabora	1175	Shallow well	5.09648	31.30966	1073	na	na	na	Tanira	na	na	176	24/d	Unfunctionning	na	na	na	na	na	na
HP-1399	Urambo	Usinge	Usinge	9	Usinge Kati	2140	Shallow well	5.10009	31.30222	1070	na	na	na	Tanira	na	na	321	24	Functionning	Clear	Salty	26	5.8	0.155	16.04
HP-1400	Urambo	Usinge	Usinge	9	Usinge Magharibi	925	Shallow well	5.09469	31.30148	1069	na	na	24	Tanira	na	na	139	24/d	Unfunctionning	na	na	na	na	na	na

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1401	Urambo	Usinge	Usinge	9	Usinge Magharibi	1600	Shallow well	5.21004	31.21534	1068	2004	na	na	Afridev	na	2005	320	na	Unfunctionning	na	na	na	na	na	na
HP-1402	Urambo	Usinge	Usinge	9	Usinge Magharibi	1600	Deep well	5.20592	31.21676	1069	2008	na	70	Indian Mk-II	na	2008	320	24	Functionning	Clear	Tasteless	26.6	6.3	0.36	28.4
HP-1403	Urambo	Usinge	Usinge	9	Usinge Mashariki	1040	Shallow well	5.09399	31.30461	1077	na	na	na	Tanira	na	na	156	24	Unfunctionning	na	na	na	na	na	na
HP-1404	Urambo	Usinge	Usinge	9	Usinge Mashariki	1040	Shallow well	5.09282	31.30641	1075	2003	na	na	Tanira	na	na	156	24	Unfunctionning	Clear	Tasteless	26.4	5.4	0.043	3.3
HP-1405	Urambo	Usinge	Usinge	9	Usinge Mashariki	1700	Deep well	5.20422	31.23859	1069	2008	na	40	Indian Mk-II	na	2008	320	24	Unfunctionning	na	na	na	na	na	na
HP-1406	Urambo	Usisya	Katungulu	1	Ujamaa	620	Shallow well	5.13778	32.20258	1122	2007	na	na	Afridev	na	2009	124	na	Unfunctionning	na	na	na	na	na	na
HP-1407	Urambo	Usisya	Mabunduku	7	Mabunduku kaskazini	913	Shallow well	5.03783	32.23776	1165	1986	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1408	Urambo	Usisya	Mabunduku	7	Mabunduku kaskazini	913	Shallow well	5.03497	32.23165	1153	1980	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1409	Urambo	Usisya	Mabunduku	7	Mabunduku kaskazini	913	Shallow well	5.03054	32.23592	1141	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1410	Urambo	Usisya	Mabunduku	7	Mabunduku kusini	866	Shallow well	5.04443	32.23655	1174	na	na	na	Afridev	na	na	260	24	Unfunctionning	na	na	na	na	na	na
HP-1411	Urambo	Usisya	Mabunduku	7	Mabunduku kusini	866	Shallow well	5.05425	32.24148	1162	na	na	na	Shinyanga pump	na	na	260	na	Unfunctionning	na	na	na	na	na	na
HP-1412	Urambo	Usisya	Mabunduku	7	Mabunduku kusini	866	Shallow well	5.05076	32.23407	1157	na	na	na	Shinyanga pump	na	na	260	na	Unfunctionning	na	na	na	na	na	na
HP-1413	Urambo	Usisya	Mabunduku	7	Mabunduku kusini	866	Shallow well	5.03894	32.22902	1157	1980	na	na	Shinyanga pump	na	na	260	na	Unfunctionning	na	na	na	na	na	na
HP-1414	Urambo	Usisya	Sipungu	2	Chekeleni	588	Shallow well	5.07723	32.267	1129	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1415	Urambo	Usisya	Sipungu	2	Sipungu kati	599	Shallow well	5.06492	32.26734	1168	1978	na	na	Afridev	20	2009	150	24	Under Construction	na	na	na	na	na	na
HP-1416	Urambo	Usisya	Usisya	1	Usisya kati	885	Deep well	5.08345	32.23533	1129	2009	na	na	Indian Mk-II	na	2009	905	na	Unfunctionning	na	na	na	na	na	na
HP-1417	Urambo	Ussoke	Itegamatwi	1	Ihega	na	Shallow well	5.15208	32.29681	1145	na	na	na	Tanira	na	2009	na	24	Functionning	Milky	Tasteless	26.6	5.6	0.048	6.7
HP-1418	Urambo	Ussoke	Usongelani	1	Usongelani B	500	Shallow well	5.08428	32.33375	1158	na	na	na	Afridev	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-1419	Urambo	Ussoke	Ussoke	16	Ussoke Kaskazini	750	Shallow well	5.08325	32.31961	1156	na	na	na	Tanira	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-1420	Urambo	Ussoke	Ussoke	16	Ussoke Kaskazini	750	Deep well	5.08123	32.31711	1157	1996	na	na	Afridev	na	2009	na	na	Unfunctionning	na	na	na	na	na	na
HP-1421	Urambo	Ussoke	Ussoke	16	Ussoke Kaskazini	750	Shallow well	5.08412	32.32143	1157	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1422	Urambo	Ussoke	Ussoke	16	Ussoke Kaskazini	750	Deep well	5.08587	32.31794	1164	1996	na	na	Indian Mk-III	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-1423	Urambo	Ussoke	Ussoke	16	Ussoke Kati	2718	Deep well	5.09035	32.31363	1156	2009	na	na	Indian Mk-II	na	2009	680	24	Unfunctionning	na	na	na	na	na	na
HP-1424	Urambo	Ussoke	Ussoke	16	Ussoke Kati	2718	Deep well	5.09191	32.31385	1151	2009	na	na	Afridev	na	2009	680	24	Functionning	Clear	Tasteless	26.8	5.6	0.032	23.1
HP-1425	Urambo	Ussoke	Ussoke	16	Ussoke Kati	2718	Shallow well	5.0908	32.31341	1154	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1426	Urambo	Ussoke	Ussoke	16	Ussoke Magharibi	825	Deep well	5.08328	32.31124	1156	na	na	na	Shinyanga pump	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-1427	Urambo	Ussoke	Ussoke	16	Ussoke Magharibi	825	Shallow well	5.0839	32.31114	1155	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1428	Urambo	Ussoke	Ussoke	16	Ussoke Magharibi	825	Shallow well	5.0786	32.31005	1155	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1429	Urambo	Ussoke	Ussoke	16	Ussoke Mashariki	550	Deep well	5.09073	32.32015	1154	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1430	Urambo	Ussoke	Ussoke	16	Ussoke sokoni	2900	Shallow well	5.10061	32.31725	1136	1981	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1431	Urambo	Ussoke	Ussoke	16	Ussoke sokoni	2900	Shallow well	5.09679	32.3193	1144	1981	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1432	Urambo	Ussoke	Ussoke	16	Ussoke sokoni	2900	Shallow well	5.09529	32.3211	1144	na	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1433	Urambo	Ussoke	Ussoke	16	Ussoke sokoni	2900	Deep well	5.0985	32.32219	1143	na	na	na	Tanira	na	na	na	na	Unfunctionning	na	na	na	na	na	na
HP-1434	Urambo	Ussoke	Ussoke	16	Ussoke sokoni	2900	Shallow well	5.09829	32.32192	1142	1981	na	na	no pump	na	na	na	na	Pump Removed	na	na	na	na	na	na
HP-1435	Urambo	Uyowa	Mwendakulima	3	Kalembela	na	Shallow well	4.58088	31.9632	1119	1976	na	8	no pump	7	1976	na	na	Pump Removed	na	na	na	na	na	na
HP-1436	Urambo	Uyowa	Mwendakulima	3	Mwendakulima	na	Deep well	4.57183	31.9746	1122	2001	na	70	Indian Mk-II	68	2001	na	na	Unfunctionning	na	na	na	na	na	na
HP-1437	Urambo	Uyowa	Mwendakulima	3	Mwendakulima	na	Shallow well	4.58698	31.96793	1118	2009	na	7	Tanira	6	2009	na	12	Functionning	Clear	Fresh	26.5	6.3	0.4	63
HP-1438	Urambo	Uyowa	Nsungwa	3	Nyota	na	Shallow well	4.46762	31.97243	1096	1976	na	10	no pump	10	1976	na	na	Pump Removed	na	na	na	na	na	na
HP-1439	Urambo	Uyowa	Nsungwa	3	Songambele	na	Deep well	4.47546	32.00489	1119	2005	na	70	SWN-80	68	2005	na	na	Unfunctionning	na	na	na	na	na	na
HP-1440	Urambo	Uyowa	Nsungwa	3	Songambele	na	Shallow well	4.4769	32.00365	1117	2009	na	8	Tanira	8	2009	na	12	Functionning	Clear	Fresh	26.5	6.3	0.4	44

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordinates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1441	Urambo	Uyowa	Songambele	2	Mvenge	na	Deep well	4.59604	32.01733	1121	2005	na	70	Indian Mk-II	70	2005	na	12	Functionning	Clear	Fresh	26.5	6.8	0.4	45
HP-1442	Urambo	Uyowa	Songambele	2	Songambele	na	Deep well	4.58384	32.02382	1129	2005	na	75	SWN-80	75	2005	na	12	Functionning	Clear	Fresh	26.5	6.3	ND	63
HP-1443	Urambo	Uyowa	Uhindini	4	Sheme	na	Deep well	4.54126	31.96584	1108	2005	na	70	Indian Mk-II	68	2005	na	na	Unfunctionning	na	na	na	na	na	na
HP-1444	Urambo	Uyowa	Uhindini	4	Sheme	na	Deep well	4.5412	31.96002	1115	2009	na	78	Indian Mk-II	76	2009	na	12	Functionning	Clear	Fresh	26.8	6.8	0.4	45
HP-1445	Urambo	Uyowa	Uhindini	4	Sheme	na	Deep well	4.54286	31.96227	1114	2005	na	62	Indian Mk-II	62	2005	na	na	Unfunctionning	na	na	na	na	na	na
HP-1446	Urambo	Uyowa	Uhindini	4	Uyowa	na	Deep well	4.55408	31.9679	1121	2005	na	65	Indian Mk-II	65	2005	na	12	Functionning	Clear	Salty	26.2	5.9	0.4	162
HP-1447	Urambo	Uyumbu	Isongwa	7	Belling	622	Deep well	5.22759	32.2392	1127	2009	na	na	no pump	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-1448	Urambo	Uyumbu	Isongwa	7	Isongwa Kati	711	Deep well	5.22481	32.25079	1129	2009	na	na	no pump	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-1449	Urambo	Uyumbu	Isongwa	7	Luyembe	505	Deep well	5.2231	32.26985	1132	2009	na	na	no pump	na	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-1450	Urambo	Uyumbu	Isongwa	7	Luyembe	505	Deep well	5.22207	32.27855	1135	2009	na	na	no pump	na	2009	na	na	Pump Removed	na	na	na	na	na	na
HP-1451	Urambo	Uyumbu	Isongwa	7	Mwanawafuke	542	Deep well	5.21796	32.21763	1110	2009	na	na	no pump	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-1452	Urambo	Uyumbu	Isongwa	7	Ugalla	411	Deep well	5.21655	32.29911	1141	2009	na	na	no pump	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-1453	Urambo	Uyumbu	Isongwa	7	Ukuga	432	Deep well	5.20708	32.25213	1121	2009	na	na	no pump	na	2009	na	na	Under Construction	na	na	na	na	na	na
HP-1454	Urambo	Uyumbu	Izengabatogilwe	4	Imalampaka	na	Deep well	5.28092	32.30214	1150	2009	na	na	no pump	na	2007	66.2	na	Abandoned	na	na	na	na	na	na
HP-1455	Urambo	Uyumbu	Izengabatogilwe	4	Imalanduki	na	Deep well	5.28187	32.25379	1140	2007	na	na	no pump	na	2007	66.2	na	Under Construction	na	na	na	na	na	na
HP-1456	Urambo	Uyumbu	Izengabatogilwe	4	Mtakuja	na	Shallow well	5.26119	32.28663	1143	na	na	na	Shinyanga pump	na	na	70	na	Unfunctionning	na	na	na	na	na	na
HP-1457	Urambo	Uyumbu	Izengabatogilwe	4	Mtakuja	na	Shallow well	5.25532	32.28531	1138	na	na	na	Shinyanga pump	na	na	70	na	Unfunctionning	na	na	na	na	na	na
HP-1458	Urambo	Uyumbu	Izimbili	1	Kigodi	na	Shallow well	5.22315	32.4116	1155	2006	na	na	Afridev	na	2006	na	24	Unfunctionning	na	na	na	na	na	na
HP-1459	Urambo	Uyumbu	Nsogoko	4	Kalole	314	Deep well	5.22693	32.33732	1163	2007	4.8	48.28	Afridev	na	2007	125.6	24	Functionning	Clear	Tasteless	26.8	6.2	0.102	44
HP-1460	Urambo	Uyumbu	Nsogoko	4	Mkasiwa	177	Deep well	5.24124	32.34274	1162	2007	na	na	Afridev	na	2007	70.8	24	Functionning	Clear	Tasteless	26.7	5.7	0.192	62.46
HP-1461	Urambo	Uyumbu	Nsogoko	4	Mrema	209	Deep well	5.25147	32.34575	1154	2007	4.3	39.4	Afridev	na	2007	83.6	24	Functionning	Clear	Tasteless	27.5	5.8	0.0859	115
HP-1462	Urambo	Uyumbu	Nsogoko	4	Tupendane	454	Deep well	5.30549	32.34477	1146	2007	2.12	52.5	Afridev	na	2007	181.6	24	Functionning	Milky	Tasteless	27.2	6.1	0.011	202
HP-1463	Urambo	Uyumbu	Usoke mlimani	8	Ichencha	211	Deep well	5.13849	32.34084	1149	2008	na	na	Afridev	na	2008	42	24	Functionning	Clear	Tasteless	27	6.4	0.162	42
HP-1464	Urambo	Uyumbu	Usoke mlimani	8	Mlambo	702	Deep well	5.16649	32.35965	1162	2008	na	na	Afridev	na	2008	140.4	12	Functionning	Clear	Tasteless	27.1	6.5	0.36	30.1
HP-1465	Urambo	Uyumbu	Usoke mlimani	8	Mkwawa	273	Deep well	5.16947	32.35003	1157	2007	na	na	Afridev	na	2007	54.6	12	Functionning	Clear	Tasteless	26.7	6.4	0.11	168
HP-1466	Urambo	Uyumbu	Usoke mlimani	8	Misheni	424	Shallow well	5.17715	32.36308	1182	2008	na	na	Tanira	na	2008	84.8	24	Functionning	Clear	Tasteless	26.7	6.5	0.107	16.68
HP-1467	Urambo	Uyumbu	Usoke mlimani	8	Misheni	424	Deep well	5.17691	32.3628	1184	2008	2.9	36.9	Afridev	na	2008	84.8	24	Functionning	Clear	Tasteless	26.9	6.2	0.11	224
HP-1468	Urambo	Uyumbu	Usoke mlimani	8	Misheni	424	Deep well	5.17768	32.35716	1178	1981	na	na	Shinyanga pump	na	1981	84.8	24	Unfunctionning	na	na	na	na	na	na
HP-1469	Urambo	Uyumbu	Usoke mlimani	8	Misheni	424	Shallow well	5.17704	32.363	1183	na	na	na	Shinyanga pump	na	na	84.8	24	Unfunctionning	na	na	na	na	na	na
HP-1470	Urambo	Uyumbu	Usoke mlimani	8	Simba	700	Deep well	5.19767	32.36992	1205	2007	na	na	Afridev	na	2007	na	24	Functionning	Clear	Tasteless	26.9	6.1	0.151	150
HP-1471	Urambo	Uyumbu	Yelayela	2	Kakola	420	Deep well	5.16078	32.33347	1150	2008	2.9	42.9	Afridev	na	2008	84	24	Functionning	Clear	Tasteless	26.8	6.8	0.192	140
HP-1472	Urambo	Uyumbu	Yelayela	2	Majengo	474	Deep well	5.1903	32.35538	1187	2007	1.6	30	Afridev	na	2007	na	24	Functionning	Clear	Salty	27.3	6.3	0.178	26.4
HP-1473	Urambo	Vumilia	Motomoto	1	Kasulu	2100	Shallow well	5.06451	31.96747	1103	na	na	na	no pump	na	na	420	na	Pump Removed	na	na	na	na	na	na
HP-1474	Urambo	Vumilia	Nkokoto	6	Nkokoto magharibi	3400	Shallow well	5.09037	31.89901	1096	2003	na	na	no pump	na	na	680	na	Pump Removed	Clear	Tasteless	24.1	6.2	0.065	11.7
HP-1475	Urambo	Vumilia	Nkokoto	6	Nkokoto magharibi	3400	Shallow well	5.09295	31.90048	1094	1974	na	na	no pump	na	na	680	na	Pump Removed	na	na	na	na	na	na
HP-1476	Urambo	Vumilia	Nkokoto	6	Nkokoto magharibi	3400	Deep well	5.08932	31.89859	1095	2009	na	na	Afridev	na	na	680	24	Functionning	Clear	Tasteless	24.3	6.5	0.28	41.8
HP-1477	Urambo	Vumilia	Nkokoto	6	Nkokoto magharibi	3400	Shallow well	5.08754	31.89744	1095	1974	na	na	no pump	na	na	680	na	Pump Removed	Clear	Tasteless	24.5	6.8	0.19	32.4
HP-1478	Urambo	Vumilia	Nkokoto	6	Nkokoto magharibi	3400	Shallow well	5.08636	31.89885	1095	1974	na	na	Afridev	na	na	680	24	Functionning	Clear	Tasteless	24.8	6.49	0.4	52.1
HP-1479	Urambo	Vumilia	Nkokoto	6	Nkokoto magharibi	3400	Shallow well	5.08756	31.90149	1094	1974	na	na	no pump	na	na	680	na	Pump Removed	Clear	Tasteless	24.9	5.9	0.36	22.4
HP-1480	Urambo	Vumilia	Uhuru	3	Uhuru	1800	Shallow well	5.07107	31.88766	1102	1974	na	na	no pump	na	na	360	na	Pump Removed	Grey	Little Salty	25.6	8.5	0.34	67.6

List of Existing Water Supply Facilities (Handpump)

				General Information				GPS Coordidnates (Map Datum: Arc 1960)			Well Information			Handpump Information						Water Quality on the field					
Hand Pump ID	District/ Municipality	Ward	Village / Street	Number of Handpump in Village	Sub-Village/Street	Covering Population by Handpump	Type of Water Source	Latitude	Longitude	Altitude (m)	Drilling Year	Static Water Level (m)	Drilling Depth (m)	Type of Handpump	Installation Depth (m)	Installation Year	Water Consumption (m^3/day)	Operation (Hours/day)	Status	Color	Taste	Temperature (degree)	pH	Fluoride (mg/l)	Electric Conductivity (mS/m)
HP-1481	Urambo	Vumilia	Uhuru	3	Ujiji	2000	Shallow well	5.06853	31.89373	1104	1974	na	na	no pump	na	na	400	na	Pump Removed	na	na	na	na	na	na
HP-1482	Urambo	Vumilia	Uhuru	3	Upendo	1800	Shallow well	5.07622	31.87574	1094	1974	na	na	no pump	na	na	360	na	Pump Removed	na	na	na	na	na	na
HP-1483	Urambo	Vumilia	Vumilia	4	Kati	1457	Shallow well	5.06363	31.93474	1093	2007	na	12	Tanira	na	2007	292	12	Functionning	Clear	Salty	27.1	5.9	0.7	69.4
HP-1484	Urambo	Vumilia	Vumilia	4	Kati	1457	Shallow well	5.06009	31.92029	1091	na	na	na	no pump	na	na	292	na	Pump Removed	Milky	Tasteless	27.3	6.2	0.051	82
HP-1485	Urambo	Vumilia	Vumilia	4	Kati	1457	Shallow well	5.06512	31.91948	1087	na	na	2	no pump	na	na	292	na	Pump Removed	na	na	na	na	na	na
HP-1486	Urambo	Vumilia	Vumilia	4	Kati	1457	Shallow well	5.06316	31.93432	1094	2009	na	na	Indian Mk-II	na	2007	292	12	Functionning	Clear	Salty	26.9	6.1	0.5	62

List of Existing Water Supply Facilities (Piped Scheme)

General information										GPS Coordinates (Map Datum: Arc 1960)			Well Information			Motorized Pump Information					Water Tank Information				Public Water Points (PWPs) Information	Operating Status of PWSS			Water Quality on the Field					
No. of Piped Water Supply Scheme (PWP)	District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Supply Population	No. of Water Source	Total Number, Functionning (F) Number and Unfunctionning (UF) Number of Public Water Points	Pumping System	Daily Consumption (m^3/day)	Water Source Type	Lat.	Lon.	SubVillage / Street	Drilling Year	Drilling Depth (m)	Type of Motorized Pump	Power (kW)	Installation Year	Operation Hours / day	Status	Capacity of Tank (m^3)	Shape of Tank	Elevation of Tank (m)	Status	Numbers of PWPs and Supply Population in each Sub-Village / Street	Status of PWSS	Do / Did the taps have attendants?	Does PWSS has pump operator?	Colour	Taste	Temp ( )	pH	Fluoride (mg/L)	EC (mS/m)
IgPW-01	Igunga	Choma	Chibiso	56 Mwankono 54 Chibiso	1700	1	Total=9 Function=4 Unfunction=5	Electrical Submersible Pump	540	Shallow well	3.96095	33.34521	Mwankono	2002	na	Electrical Pump	na	2003	12	F	na	Cylindrical	na	F	Chiboso 6PWP for 900 people Mwankono 3PWP for 800 people	F	Yes	No	Clear	Tasteless	31.0	7.9	2.7	89
IgPW-02	Igunga	Choma	Chomachankola	64 Zomadi 58 Ginnery 57 Chamalend 63 Uswahilini 62 Sokoni	4300	2	Total=7 Function=7 Unfunction=0	Electrical Submersible Pump	600	Deep well	3.98736	33.3575	Zomadi	na	310	Electrical submersible pump	na	na	12	F	na	Cylindrical	na	F	Choma (2PWP) Zomadi (1PWP) Ginnery (1PWP) Chomaland (1PWP) Uswahilini (1PWP) Sokoni (1PWP)	F	Yes	Yes	Clear	Very little salty	29.7	8.1	8.5	260
IgPW-02	Igunga	Choma	Chomachankola	64 Zomadi 58 Ginnery 57 Chamalend 63 Uswahilini 62 Sokoni	4300	2	Total=7 Function=7 Unfunction=0	Electrical Submersible Pump	600	Deep well	4.02369	33.34821	Uswahilini	na	320	Electrical submersible pump	na	na	13	F	na	Cylindrical	na	F	Choma (2PWP) Zomadi (1PWP) Ginnery (1PWP) Chomaland (1PWP) Uswahilini (1PWP) Sokoni (1PWP)	F	Yes	Yes	na	na	na	na	na	na
IgPW-03	Igunga	Igunga	Isugilo	96 Benki 97 Kamando 98 Kati 99 Magharibi 100 Mashariki 101 Mwayunge 102 Nkokoto 103 Stoo ya Pamba	7220	1	Total=7 Function=5 Unfunction=2	Gravity from Bulenya and Booster Pump	1900	Dam	4.29003	33.78698	Bulenya	1961	na	Electical	na	na	12	F	105	Cylindrical	On ground	UF	Total=7 F=5 UF=2	F	Yes	Yes	Yellow	Tasteless	24.6	8.26	4.3	28.8
IgPW-03	Igunga	Igunga	Isugilo	96 Benki 97 Kamando 98 Kati 99 Magharibi 100 Mashariki 101 Mwayunge 102 Nkokoto 103 Stoo ya Pamba	7220	1	Total=7 Function=5 Unfunction=2	Gravity from Bulenya and Booster Pump	1900	Dam	4.29003	33.78698	Bulenya	1961	na	Electical	na	na	12	F	105	Cylindrical	On ground	UF	Total=7 F=5 UF=2	F	Yes	Yes	Yellow	Tasteless	24.6	8.26	4.3	28.8
IgPW-03	Igunga	Igunga	Isugilo	96 Benki 97 Kamando 98 Kati 99 Magharibi 100 Mashariki 101 Mwayunge 102 Nkokoto 103 Stoo ya Pamba	7220	1	Total=7 Function=5 Unfunction=2	Gravity from Bulenya and Booster Pump	1900	Dam	4.29003	33.78698	Bulenya	1961	na	Electical	na	na	12	F	90	Cylindrical	6m riser	UF	Total=7 F=5 UF=2	F	Yes	Yes	Yellow	Tasteless	24.6	8.26	4.3	28.8
IgPW-03	Igunga	Igunga	Isugilo	96 Benki 97 Kamando 98 Kati 99 Magharibi 100 Mashariki 101 Mwayunge 102 Nkokoto 103 Stoo ya Pamba	7220	1	Total=7 Function=5 Unfunction=2	Gravity from Bulenya and Booster Pump	1900	Dam	4.29003	33.78698	Bulenya	1961	na	Electical	na	na	12	F	105	Cylindrical	On ground	UF	Total=7 F=5 UF=2	F	Yes	Yes	Yellow	Tasteless	24.6	8.26	4.3	28.8
IgPW-04	Igunga	Igurubi	Igurubi	134 Mwabalambu 135 Mwaomba 137 Unyanyembel A	927	1	Total=5 Function=4 Unfunction=1	Diesel Well Pump	465	Deep well	3.98735	33.70974	Bugwandege	2007	na	Diesel well pump	na	na	5	F	na	Cylindrical	na	F	1PWP Unyanyembel A 2PWP Mwaomba 2PWP Mwabalambu	F	No	Yes	na	na	na	na	na	na
IgPW-05	Igunga	Itunduru	Itunduru	186 Chonja 187 Langalanga 189 Madukani 190 Mibuyu miwili	4600	1	Total=5 Function=0 Unfunction=5	na	3680	Dam	4.15908	33.64003	Mibuyumiwili	na	na	na	na	na	na	F	na	Cylindrical	na	UF	Madukani 2PWP for 1600 people Chonja 2PWP for 1200 people Mibuyumiwili 1PWP for 1040 people	UF	No	No	na	na	na	na	na	na

List of Existing Water Supply Facilities (Piped Scheme)

				General information						GPS Coordidnates (Map Datum: Arc 1960)			Well Information			Motorized Pump Information					Water Tank Information				Public Water Points (PWPs) Information	Operating Status of PWSS			Water Quality on the Field					
No. of Piped Water Supply Scheme (PWP)	District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Supply Population	No. of Water Source	Total Number, Functionning (F) Number and Unfunctionning (UF) Number of Public Water Points	Pumping System	Daily Consumption (m^3/day)	Water Source Type	Lat.	Lon.	SubVillage / Street	Drilling Year	Drilling Depth (m)	Type of Motorized Pump	Power (kW)	Installation Year	Operation Hours / day	Status	Capacity of Tank (m^3)	Shape of Tank	Elevation of Tank (m)	Status	Numbers of PWPs and Supply Population in each Sub-Village / Street	Status of PWSS	Do / Did the taps have attendants?	Does PWSS has pump operator?	Colour	Taste	Temp ( )	pH	Fluoride (mg/L)	EC (mS/m)
IgPW-06	Igunga	Mwamashiga	Migongwa	289 Mahushi 291 Migongwa A 297 Mwanya A	920	1	Total=6 Function=2 Unfunction=4	Electrical Submersible Pump	460	Dam	4.29003	33.78698	Bulenya	1961	na	Electical pump	na	na	12	F	na	Cylindrical	na	F	Migongwa A 1PWP for 190 people Mahushi 1PWP for 322 people Mwanya A 4PWP for 460 people	UF	Yes	Yes	Yellow	Tasteless	24.6	8.26	4.3	28.8
IgPW-06	Igunga	Nanga	Bulyang'ombe	403 Bulyang'ombe 406 Magharibi 404 Kaskazini - Mwabaki 405 Kusini 408 Mwalunju 407 Msuha	3600	1	Total=11 Function=1 Unfunction=10	Electrical Submersible Pump	360	Dam	4.29003	33.78698	Bulenya	1961	na	Electical pump	na	na	12	F	na	Cylindrical	Uknown	F	Magharibi 2PWP for 640 people Kati 4PWP for 568 people Kasikazini 2PWP for 640 people Kusini 1PWP for 400 people Misuha 2PWP for 576 people	UF	Yes	Yes	Yellow	Tasteless	24.6	8.26	4.3	28.8
IgPW-06	Igunga	Nanga	Igogo	410 Igogo Mashariki 409 Igogo Magharibi 412 Mpindo 411 Jilili	na	1	Total=6 Function=4 Unfunction=2	Electrical Submersible Pump	(0.2 m3/person/day)	Dam	4.29003	33.78698	Bulenya	1961	na	Electical pump	na	na	12	F	na	Cylindrical	na	F	Mashariki 3PWP Magharibi 2PWP Mpindo 1PWP Jilili 0PWP	UF	Yes	Yes	Yellow	Tasteless	24.6	8.26	4.3	28.8
IgPW-06	Igunga	Nanga	Nanga	423 Mwakipanga B 424 Nanga kati 425 Nanga Mashariki	1542	1	Total=16 Function=7 Unfunction=9	Electrical Submersible Pump	154.2	Dam	4.29003	33.78698	Bulenya	1961	na	Electical pump	na	na	12	F	na	Cylindrical	na	F	Nanga Mashariki 2PWP for 438 people Nanga Kati 6PWP for 648 peolple Mwakipanga 8PWP for 456 people	UF	Yes	Yes	Yellow	Tasteless	24.6	8.26	4.3	28.8
IgPW-06	Igunga	Nanga	Nanga	423 Mwakipanga B 424 Nanga kati 425 Nanga Mashariki	1542	1	Total=16 Function=7 Unfunction=9	Electrical Submersible Pump	154.2	Dam	4.29003	33.78698	Bulenya	1961	na	Electical pump	na	na	12	F	na	Cylindrical	na	F	Nanga Mashariki 2PWP for 438 people Nanga Kati 6PWP for 648 people Mwakipanga 8PWP for 456 people	UF	Yes	Yes	Yellow	Tasteless	24.6	8.26	4.3	28.8
IgPW-07	Igunga	Ndembezi	Ndembezi	441 Igomamhuli A 442 Itulashilanga A 447 Sebelo A	9600	1	Total=6 Function=NA Unfunction=NA	Electrical Submersible Pump	960	Deep well	4.3138	33.42654	Usuiwa	na	46	Electrical Submersible pump	na	2009	19	F	45	Cylindrical	na	F	Igomamhuli A 4PWP for 2800 people Itulashilanga A 1PWP for 2000 people Sebelo A 1PWP for 2400 people	UF	NO	Yes	na	na	na	na	na	na
IgPW-08	Igunga	Nkinga	Ulaya	512 Isevya 511 Ikundula 513 Kashishi 515 Mnadani	3200	1	na	Electrical Submersible Pump	640	Deep well	4.38083	33.42442	Mnadani	2007	na	Electrical pump	na	2007	7	UF	na	Cylindrical	na	F	Isevya (1PWP) Ikundula (1PWP) Kashishi (1PWP) Mnadani (1PWP)	UF	na	No	na	na	na	na	na	na
IgPW-09	Igunga	Nkinga	Nkinga	503 Uwanja wa ndege 496 Igalula 500 Sokoni 495 Hospitali 499 Shagenge	6000	4	Total=10 Function=7 Unfunction=3	Electrical Submersible Pump and Diesel Well Pump	500	Deep well	4.40557	33.43714	Igalula	2007	87	Electric submersible pump	na	2008	7	F	na	Cylindrical	na	F	Uwanja wa ndege 1PWP for 1000 people Igalula 1PWP for 1000 people Sokoni 4PWP for 2500 peple Hospitali 1PWP for 1500 people	F	Yes	Yes	na	na	na	na	na	na
IgPW-09	Igunga	Nkinga	Nkinga	503 Uwanja wa ndege 496 Igalula 500 Sokoni 495 Hospitali 499 Shagenge	6000	4	Total=10 Function=7 Unfunction=3	Electrical Submersible Pump and Diesel Well Pump	500	Deep well	4.41017	33.43514	Igalula	2007	45	Electric submersible pump	na	2008	7	UF	na	Cylindrical	na	F	Uwanja wa ndege 1PWP for 1000 people Igalula 1PWP for 1000 people Sokoni 4PWP for 2500 peple Hospitali 1PWP for 1500 people	F	Yes	Yes	na	na	na	na	na	na

List of Existing Water Supply Facilities (Piped Scheme)

				General information						GPS Coordidnates (Map Datum: Arc 1960)			Well Information			Motorized Pump Information					Water Tank Information				Public Water Points (PWPs) Information	Operating Status of PWSS			Water Quality on the Field					
No. of Piped Water Supply Scheme (PWP)	District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Supply Population	No. of Water Source	Total Number, Functionning (F) Number and Unfunctionning (UF) Number of Public Water Points	Pumping System	Daily Consumption (m^3/day)	Water Source Type	Lat.	Lon.	SubVillage / Street	Drilling Year	Drilling Depth (m)	Type of Motorized Pump	Power (kW)	Installation Year	Operation Hours / day	Status	Capacity of Tank (m^3)	Shape of Tank	Elevation of Tank (m)	Status	Numbers of PWPs and Supply Population in each Sub-Village / Street	Status of PWSS	Do / Did the taps have attendants?	Does PWSS has pump operator?	Colour	Taste	Temp ( )	pH	Fluoride (mg/L)	EC (mS/m)
IgPW-09	Igunga	Nkinga	Nkinga	503 Uwanja wa ndege 496 Igalula 500 Sokoni 495 Hospitali 499 Shagenge	6000	4	Total=10 Function=7 Unfunction=3	Electrical Submersible Pump and Diesel Well Pump	500	Deep well	4.41052	33.43536	Igalula	na	na	na	na	na	12	UF	na	Cylindrical	na	F	Uwanja wa ndege 1PWP for 1000 people Igalula 1PWP for 1000 people Sokoni 4PWP for 2500 peple Hospitali 1PWP for 1500 people	F	Yes	Yes	na	na	na	na	na	na
IgPW-09	Igunga	Nkinga	Nkinga	503 Uwanja wa ndege 496 Igalula 500 Sokoni 495 Hospitali 499 Shagenge	6000	4	Total=10 Function=7 Unfunction=3	Electrical Submersible Pump and Diesel Well Pump	500	Deep well	4.41971	33.47937	Ugayang'ombe	2007	30	Diesel pump	na	2008	7	F	na	Cylindrical	na	F	Uwanja wa ndege 1PWP for 1000 people Igalula 1PWP for 1000 people Sokoni 4PWP for 2500 peple Hospitali 1PWP for 1500 people	F	Yes	Yes	na	na	na	na	na	na
IgPW-10	Igunga	Simbo	Simbo	551 Busomeke 552 Idubula 557 Wikumbilunde 554 Igombanilo 555 Makulumo 556 Nzibe	3180	2	Total=7 (the project is underconstruction)	Diesel Well Pump	636	Deepwell	4.70716	33.44042	Igombanilo	2007	90	Diesel well pump	na	2008	na	UC	na	Cylindrical	na	UC	UC	UF	na	na	na	na	na	na	na	na
IgPW-10	Igunga	Simbo	Simbo	551 Busomeke 552 Idubula 557 Wikumbilunde 554 Igombanilo 555 Makulumo 556 Nzibe	3180	2	Total=7 (the project is underconstruction)	Diesel Well Pump	636	Shallow well	4.64653	33.44456	Idubula	2007	30	Diesel well pump	na	2008	na	UC	na	Cylindrical	na	UC	UC	UF	na	na	na	na	na	na	na	na
IgPW-11	Igunga	Ziba	Ziba	626 Busalu 628 Igumila 630 Inanukilo 634 Lugulung'ombe	1760	1	Total=6 Function=3 Unfunction=3	Electrical Submersible Pump	176	Deep well	4.25573	33.41169	Bulyambuli	2004	na	Electrical Submersible pump	na	na	12	F	na	Cylindrical	na	F	Busalu 1PWP for 800 people Igumila 3PWP for 909 people Inanunikilo 1PWP Lugulung'ombe 1PWP	F	Yes	Yes	na	na	na	na	na	na
NzPW-01	Nzega	Bukene	Bukene	19 Mwantoba 18 Migombani 15 Iluluma 20 Nyenze 13 Bukene 16 Majengo	na	1	Total=9 Function=0 Unfunction=9	Diesel Well Pump Gravity and	na	Deep well	4.22016	32.87896	Mwantoba	1980	na	na	na	1980	na	UF	27	Cylindrical	na	UF	na	UF	no	Yes	na	na	na	na	na	na
NzPW-02	Nzega	Itobo	Itobo	178 Itobo Kati	na	1	Total 5 Function=0 Unfunction=5	Ground Centrifugal Pump	na	Dam	4.17075	33.03577	na	na	na	na	na	na	na	Stole n	na	panels	6	A	na	UF	na	na	na	na	na	na	na	na
NzPW-03	Nzega	Lusu	Mwaluzwilo	319 Mwaluzwilo	na	1	Total 5 Function=0 Unfunction=5	Diesel Well Pump	na	Deep Well	4.0261	33.22036	Mwaluzwilo	1990	na	na	na	na	na	UF	170	Cylindrical	6	UF	na	UF	no	Yes	na	na	na	na	na	na
NzPW-04	Nzega	Mwangoye	Chamipulu	621 Chamipulu	na	1	Total=10 Function=0 Unfunction=10	Ground Centrifugal Pump	na	Unprotected Spring	4.05107	33.09959	na	na	na	na	na	na	na	A	30	cylindrical	na	F	Chamipulu 10PWP	UF	no	no	na	na	na	na	na	na

List of Existing Water Supply Facilities (Piped Scheme)

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No. of Piped Water Supply Scheme (PWP)	District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Supply Population	No. of Water Source	Total Number, Functionning (F) Number and Unfunctionning (UF) Number of Public Water Points	Pumping System	Daily Consumption (m^3/day)	Water Source Type	Lat.	Lon.	SubVillage / Street	Drilling Year	Drilling Depth (m)	Type of Motorized Pump	Power (kW)	Installation Year	Operation Hours / day	Status	Capacity of Tank (m^3)	Shape of Tank	Elevation of Tank (m)	Status	Numbers of PWPs and Supply Population in each Sub-Village / Street	Status of PWSS	Do / Did the taps have attendants?	Does PWSS has pump operator?	Colour	Taste	Temp ( )	pH	Fluoride (mg/L)	EC (mS/m)
NzPW-05	Nzega	Nkiniziwa	Mbagwa	730 Lukombe	6700	1	Total=2 Function=0 Unfunction=2	Ground Centrifugal Pump	system not functioning	Dam	4.54288	33.19391	na	na	na	no motor	no pump no motor	na	na	A	170	Cylindrical	6	F	Total=2 F=0 UF=2	UF	Yes	Yes	na	na	na	na	na	na
NzPW-05	Nzega	Nkiniziwa	Ngukumo	741 Ngukumo 'A'	5600	1	Total=4 Function=0 Unfunction=4	Ground Centrifugal Pump	system not functioning	Dam	4.54288	33.19391	na	na	na	no motor	no pump no motor	na	na	A	150	Cylindrical	7	F	Ngukumo 'A' for 5600 people	UF	Yes	Yes	na	na	na	na	na	na
NzPW-06	Nzega	Nkiniziwa	Nkiniziwa	751 Nkiniziwa 'D', Makazi A	na	1	Total=2 Function=0 Unfunction=2	na	na	Dam	4.57335	33.16158	na	na	na	na	na	1971	na	Stolen	30	Cylindrical	6	A	2PWP	UF	na	na	na	na	na	na	na	na
NzPW-06	Nzega	Nkiniziwa	Nkiniziwa	751 Nkiniziwa 'D', Makazi A	na	1	Total=2 Function=0 Unfunction=2	na	na	Dam	4.57335	33.16158	na	na	na	na	na	1971	na	Stolen	15	Cylindrical	6	A	2PWP	UF	na	na	na	na	na	na	na	na
NzPW-07	Nzega	Nzega Mjini	Nzega Mjini	761 Humbi 769 Majengo 771 Musoma Road 774 Ndambile 778 Nyasa Kati Magharibi 779 Nyasa Kati Mashariki 780 Nyasa Mpya 781 Nzega Kati 783 Swahili Magharibi 784 Swahili Mashariki	3450	2	Total=22 Function=22 Unfunction=0	Electrical Centrifugal Pump	na	Dam	4.13638	33.23325	na	na	na	na	11	2000	8	F	256	Rectangle	on ground	F	22PWP	F	yes	Yes	na	na	na	na	na	na
NzPW-07	Nzega	Nzega Mjini	Nzega Mjini	761 Humbi 769 Majengo 771 Musoma Road 774 Ndambile 778 Nyasa Kati Magharibi 779 Nyasa Kati Mashariki 780 Nyasa Mpya 781 Nzega Kati 783 Swahili Magharibi 784 Swahili Mashariki	3450	2	Total=22 Function=22 Unfunction=0	Electrical Centrifugal Pump	na	Dam	4.1951	33.17753	na	na	na	na	11	2000	8	F	58	panel	4.5	F	22PWP	F	yes	Yes	na	na	na	na	na	na
NzPW-07	Nzega	Nzega Mjini	Nzega Mjini	761 Humbi 769 Majengo 771 Musoma Road 774 Ndambile 778 Nyasa Kati Magharibi 779 Nyasa Kati Mashariki 780 Nyasa Mpya 781 Nzega Kati 783 Swahili Magharibi 784 Swahili Mashariki	3450	2	Total=22 Function=22 Unfunction=0	Electrical Centrifugal Pump	na	Dam	4.1951	33.17753	na	na	na	na	11	2000	8	F	170	cylindrical	on ground	F	22PWP	F	yes	Yes	na	na	na	na	na	na
NzPW-07	Nzega	Nzega Mjini	Nzega Mjini	761 Humbi 769 Majengo 771 Musoma Road 774 Ndambile 778 Nyasa Kati Magharibi 779 Nyasa Kati Mashariki 780 Nyasa Mpya 781 Nzega Kati 783 Swahili Magharibi 784 Swahili Mashariki	3450	2	Total=22 Function=22 Unfunction=0	Electrical Centrifugal Pump	na	Dam	4.1951	33.17753	na	na	na	na	11	2000	8	F	70	panel	4.5	F	22PWP	F	yes	Yes	na	na	na	na	na	na
NzPW-08	Nzega	Nzega Ndogo	Zogolo	804 Ijengele	na	1	Total=7 Function=0 Unfunction=7	Diesel Well Pump	na	Deep Well	4.08353	33.13944	Ijenge	1980	na	no pump no motor	no pump no motor	no pump no motor	na	UF	157	cylindrical	5	F	7PWP Function=0 Unfunction=7	UF	no	Yes	na	na	na	na	na	na

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No. of Piped Water Supply Scheme (PWP)	District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Supply Population	No. of Water Source	Total Number, Functionning (F) Number and Unfunctionning (UF) Number of Public Water Points	Pumping System	Daily Consumption (m^3/day)	Water Source Type	Lat.	Lon.	SubVillage / Street	Drilling Year	Drilling Depth (m)	Type of Motorized Pump	Power (kW)	Installation Year	Operation Hours / day	Status	Capacity of Tank (m^3)	Shape of Tank	Elevation of Tank (m)	Status	Numbers of PWPs and Supply Population in each Sub-Village / Street	Status of PWSS	Do / Did the taps have attendants?	Does PWSS has pump operator?	Colour	Taste	Temp ( )	pH	Fluoride (mg/L)	EC (mS/m)
NzPW-09	Nzega	Utwigu	Mwanhala	968 Mwanhala 'A'	na	1	Total=5 Function=0 Unfunction=5	Ground Centrifugal Pump	na	Dam	4.3342	33.14645	na	na	na	na	na	na	na	UF	27	Cylindrical	7	A	Mwanhala A 5PWP	UF	no	Yes	na	na	na	na	na	na
NzPW-09	Nzega	Utwigu	Mwanhala	968 Mwanhala 'A'	na	1	Total=5 Function=0 Unfunction=5	Ground Centrifugal Pump	na	Dam	4.3342	33.14645	na	na	na	na	na	na	na	UF	20	Panel	6.5	A	Mwanhala A 5PWP	UF	no	Yes	na	na	na	na	na	na
NzPW-09	Nzega	Utwigu	Mwanhala	968 Mwanhala 'A'	na	1	Total=5 Function=0 Unfunction=5	Ground Centrifugal Pump	na	Dam	4.3342	33.14645	na	na	na	na	na	na	na	UF	27	Cylindrical	6	A	Mwanhala A 5PWP	UF	no	Yes	na	na	na	na	na	na
SkPW-01	Sikonge	Ipde	Udongo	58 Udongo Kahakazini 59 Udongo Kusini 60 Udongo Mashariki	633	1	Total=6 Function=4 Unfunction=2	Diesel Well Pump	na	Protected Spring	5.76775	32.716	na	na	na	Lister petter	8.6	2007	6	F	na	Cylindrical	na	F	Makazi 6PWP	F	No	Yes	Clear	Tasteless	26.9	5.19	0.06	9.4
SkPW-01	Sikonge	Ipde	Makazi	52 Makazi	na	1	Total=5 Function=4 Unfunction=1	Diesel Well Pump	na	Protected Spring	5.76775	32.716	na	na	na	Lister petter	8.6	2007	6	F	na	Cylindrical	na	F	Makazi 6PWP	F	No	Yes	Clear	Tasteless	26.9	5.19	0.06	9.4
SkPW-01	Sikonge	Ipde	Ipole	45 Ilope Kasikizini 46 Ilope Kati 47 Ilope Kusini 48 Ipole Mashariki	2669	1	Total=11 Function=11 Unfunction=0	Diesel Well Pump	na	Protected Spring	5.76775	32.716	na	na	na	Lister petter	8.6	2007	6	F	na	Cylindrical	na	F	11PWP F=na UF=na people=na	F	Yes	Yes	Clear	Tasteless	26.9	5.19	0.06	9.4
SkPW-02	Sikonge	Kipanga	Ukondamoyo	92 Mkola 93 Ugawe 94 Ukondamoyo	na	1	Total=5 Function=0 Unfunction=5	Diesel Well Pump	na	DAM	5.94385	32.9613	na	na	na	Lister petter	na	1975	na	na	11.5	Cylindrical	12	UF	5PWP for Songambele Mtakuja Tulieni	AB	na	na	Reddish	Salty	29.2	8.12	0.11	9.93
SkPW-02	Sikonge	Kipanga	Lembeli	85 Igagala 86 Lembeli 87 Mibono Mpya	na	1	Total=5 Function=0 Unfunction=5	Diesel Well Pump	na	DAM	5.94385	32.9613	na	na	na	Lister petter	na	1975	na	na	11.5	Cylindrical	12	UF	5PWP for Igagala Lembeli Mibono mpya Mkinga people=na	AB	na	na	Reddish	Salty	29.2	8.12	0.11	9.93
SkPW-02	Sikonge	Kiloleli	Mtakuja	73 Mtakuja 74 Songambele 75 Tulieni	na	1	Total=5 Function=0 Unfunction=5	Diesel Well Pump	na	DAM	5.94385	32.9613	na	na	na	Lister petter	na	1975	na	na	11.5	Cylindrical	12	UF	5PWP for Songambele Mtakuja Tulieni	AB	na	na	Reddish	Salty	29.2	8.12	0.11	9.93

List of Existing Water Supply Facilities (Piped Scheme)

District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Supply Population	No. of Water Source	Total Number, Functionning (F) Number and Unfunctionning (UF) Number of Public Water Points	Pumping System	Daily Consumption (m^3/day)	Water Source Type	Lat.	Lon.	SubVillage / Street	Drilling Year	Drilling Depth (m)	Type of Motorized Pump	Power (kW)	Installation Year	Operation Hours / day	Status	Capacity of Tank (m^3)	Shape of Tank	Elevation of Tank (m)	Status	Numbers of PWPs and Supply Population in each Sub-Village / Street	Status of PWSS	Do / Did the taps have attendants?	Does PWSS has pump operator?	Colour	Taste	Temp (°C)	pH	Fluoride (mg/L)	EC (mS/m)
Sikonge	Kiloleli	Kanyamsenga	64 Kanyamsenga Bondeni 65 Kanyamsenga Mlimani 66 Maweni A 67 Maweni B	na	1	Total=5 Function=0 Unfunction=5	Diesel Well Pump	na	Dam	5.94385	32.9613	na	na	na	Lister petter	na	1975	na	na	11.5	Cylindrical	12	UF	5PWP for Kanyamsenga Bondeni Kanyamsenga Mlimani Maweni B Maweni A	AB	na	na	Reddish	Salty	29.2	8.12	0.11	9.93
Sikonge	Kiloleli	Kiloleli	68 Indara 69 Kiloleli A 70 Kiloleli B 71 Langwa	na	1	Total=5 Function=0 Unfunction=5	Diesel Well Pump	na	Dam	5.94385	32.9613	na	na	na	Lister petter	na	1975	na	na	11.5	Cylindrical	12	UF	5PWP for Ibara Kiloleli A Kiloleli B Langwa people=na	AB	na	na	Reddish	Salty	29.2	8.12	0.11	9.93
Sikonge	Kipanga	Kipanga	82 Imalampaka 83 Mbogondema 84 Mtakuja	na	1	Total=5 Function=0 Unfunction=5	Diesel Well Pump	na	Dam	5.94385	32.9613	na	na	na	Lister petter	na	1975	na	na	11.5	Cylindrical	12	UF	5PWP for Imalampaka Mbogondema Mtakuja	AB	na	na	Reddish	Salty	29.2	8.12	0.11	9.93
Sikonge	Kipanga	Usunga	101 Kilombele 102 Makumbusho	na	1	Total=2 Function=0 Unfunction=2	Diesel Well Pump	na	Dam	5.71849	32.94418	Makumbusho	na	na	Lister petter	na	1977	na	A	11.5	Cylindrical	12	UF	2PWP Makumbusho people=na	AB	na	na	na	na	na	na	na	na
Sikonge	Sikonge	Sikonge	180 Isungiunde 183 Madukani 184 Mazinge 185 Mbirani 186 Sikonge Mission 187 Ukanga 189 Usega 190 Usupilo A	3000	2	Total=19 Function=19 Unfunction=0	Electrical Submersible Pump	na	Shallow well	5.61488	32.75214	Mbirani	1966	na	Diesel well pump	na	1966	na	UF	125	Circular	na	F	19PWP Sk SS-0183 Sk SS-0186 Sk SS-0187 Sk SS-0185 19PWP for Sikonge Mission, Ukanga, Mbirau, Uliiwansimba, Usega, Utyatya, Mazinge, Madukani & Usupilo A	F	No	Yes	na	na	na	na	na	na
Sikonge	Sikonge	Sikonge	180 Isungiunde 183 Madukani 184 Mazinge 185 Mbirani 186 Sikonge Mission 187 Ukanga 189 Usega 190 Usupilo A	3000	2	Total=19 Function=19 Unfunction=0	Electrical Submersible Pump	na	Dam	5.60315	32.86161	Mbirani	na	na	Lister petter	5.64	2009	14	F	125	Circular	na	F	19PWP Sk SS-0183 Sk SS-0186 Sk SS-0187 Sk SS-0185 19PWP Sikonge Mission, Ukanga, Mbirau, Uliiwansimba, Usega, Utyatya, Mazinge, Madukani & Usupilo A	F	No	Yes	Clear	Salty	25.4	6	0.15	41
Tabora Rural	Goweko	Nsololo	39 Kanala 43 Chang'ombe	na	1	na	Diesel Well Pump	na	Deep well	5.35894	33.14871	Kanala	1978	na	Diesel	na	1978	na	UF	na	Cylindrical	na	UF	3PWP	UF	na	Yes	na	na	na	na	na	na
Tabora Rural	Igalula	Igalula	74 Barazani 75 Igalula Stesheni 77 Mbalanga	13100	1	Total=9 Function=7 Unfunction=2	Diesel Well Pump	50	Dam	5.19129	33.01762	Isenefu	na	na	Diesel	na	1998	12	F	50	Cylidrical	na	F	8PWP	F	Yes	Yes	Milky	Tasteless	30.1	7.3	0.4	6.69
Tabora Rural	Igalula	Ipululu	78 Ipululu 79 Kigamboni 80 Unyama	na	1	Total=8 Function=0 Unfunction=8	Diesel Well Pump	na	Deep well	5.24868	33.94283	Kigamboni	1978	na	na	na	na	na	UF	na	Circular	na	UF	na	UF	na	No	na	na	na	na	na	na

List of Existing Water Supply Facilities (Piped Scheme)

				General information						GPS Coordinates (Map Datum: Arc 1960)			Well Information			Motorized Pump Information					Water Tank Information				Public Water Points (PWPs) Information	Operating Status of PWSS			Water Quality on the Field					
No. of Piped Water Supply Scheme (PWP)	District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Supply Population	No. of Water Source	Total Number, Functionning (F) Number and Unfunctionning (UF) Number of Public Water Points	Pumping System	Daily Consumption (m^3/day)	Water Source Type	Lat.	Lon.	SubVillage / Street	Drilling Year	Drilling Depth (m)	Type of Motorized Pump	Power (kW)	Installation Year	Operation Hours / day	Status	Capacity of Tank (m^3)	Shape of Tank	Elevation of Tank (m)	Status	Numbers of PWPs and Supply Population in each Sub-Village / Street	Status of PWSS	Do / Did the taps have attendants?	Does PWSS has pump operator?	Colour	Taste	Temp (°C)	pH	Fluoride (mg/L)	EC (mS/m)
TrPW-04	Tabora Rural	Igalula	Kigwa B	92 Majengo	na	1	na	na	na	Deep well	5.12074	33.11965	na	na	na	na	na	na	na	na	na	na	na	na	na	F	na	na	na	na	na	na	na	na
TrPW-05	Tabora Rural	Ildangulu	Ilolangulu	132 Ilolangulu Mjini	na	2	Total=3 Function=0 Unfunction=3	Electrical Submersible Pump	na	Shallow well	5.10059	32.63755	Ilolangulu senta	1954	6	Electrical	na	1954	13	F	25	Cylindrical	na	UF	1PWP	UF	na	Yes	Clear	na	23.9	5.57	0.8	13.55
TrPW-05	Tabora Rural	Ildangulu	Ilolangulu	132 Ilolangulu Mjini	na	2	Total=3 Function=0 Unfunction=3	Electrical Submersible Pump	na	Deep well	5.10039	32.63768	Ilolangulu senta	1954	40	Diesel	na	1955	13	F	25	Cylindrical	na	UF	1PWP	UF	na	Yes	na	na	na	na	na	na
TrPW-06	Tabora Rural	Kizengi	Tura	227 Bwawani 228 Makopo 229 Mizanza 230 Tura Kati	na	1	Total=9 Function=0 UFunction=9	Ground Centrifugal Pump	na	Dam	5.52701	33.83258	na	na	na	na	na	na	na	UF	na	Square	na	UF	9PWP UF=9	UF	No	No	na	na	na	na	na	na
TrPW-07	Tabora Rural	Isikizya	Isikizya	179 Azimio	na	1	na	na	na	Protected Spring	4.84682	33.10564	Azimio	na	na	na	na	na	na	na	na	na	na	na	na	UC	na	na	Milky	Tastless	26.5	5.5	0.27	150
TrPW-08	Tabora Rural	Kizengi	Kizengi	203 Kizengi Senta	na	1	Total=5 Function=0 UFunction=5	Diesel Well Pump	na	Dam	5.35274	33.58563	na	na	na	na	na	na	na	UF	na	Square	na	UF	5PWP Kizengi Senta All UF	UF	no	no	na	na	na	na	na	na
TrPW-09	Tabora Rural	Mabama	Mabama		na	1	Total=3 Function=0 Unfunction=3	na	na	Unprotected Spring	5.11928	32.52335	na	na	na	na	na	na	na	UF	na	na	na	na	1PWP	UF	na	na	na	na	na	na	na	na
TrPW-10	Tabora Rural	Ndono	Tulieni	377 Vumilia	na	1	Total=5 Function=0 Unfunction=5	na	na	Unprotected Spring	5.05221	32.44873	Vumilia	na	na	na	na	na	na	UF	20	Cylindrical	na	UF	TrSS-0377	UF	no	no	na	na	na	na	na	na
TrPW-11	Tabora Rural	Upuge	Upuge	447 Upuge A	722	1	Total=7 Function=3 Unfunction=4	Diesel Well Pump	na	Shallow well	4.91431	32.97912	Upuge A	na	na	Diesel well pump	na	na	24	UF	na	Cylindrical	na	F	3PWP Upuge A F=1 UF=2 people=3000	UF	NO	Yes	Milky	Salty	24.8	6.2	0.78	16.2

List of Existing Water Supply Facilities (Piped Scheme)

				General information						GPS Coordinates (Map Datum: Arc 1960)			Well Information			Motorized Pump Information					Water Tank Information				Public Water Points (PWPs) Information	Operating Status of PWSS			Water Quality on the Field					
No. of Piped Water Supply Scheme (PWP)	District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Supply Population	No. of Water Source	Total Number, Functionning (F) Number and Unfunctionning (UF) Number of Public Water Points	Pumping System	Daily Consumption (m³/day)	Water Source Type	Latitude	Longitude	SubVillage / Street	Drilling Year	Drilling Depth (m)	Type of Motorized Pump	Power (kW)	Installation Year	Operation Hours / day	Status	Capacity of Tank (m^3)	Shape of Tank	Elevation of Tank (m)	Status	Numbers of PWPs and Supply Population in each Sub-Village / Street	Status of PWSS	Do / Did the taps have attendants?	Does PWSS has pump operator?	Colour	Taste	Temp (°C)	pH	Fluoride (mg/L)	EC (mS/m)
TuPW-01	Tabora Urban	Kakola	Kakola	40 Kakola 42 Utananta	1880 500	2	Total=14 Function=0 Unfunction=14	Diesel Well Pump	na	Protected Spring	4.86744	32.82953	kakola	na	na	Diesel pump	na	1988	na	UF	na	Cylindrical	na	UF	9PWP for 1900 people 5PWP Utananta for 500 people	UF	No	Yes	na	na	na	na	na	na
TuPW-01	Tabora Urban	Kakola	Kakola	40 Kakola 42 Utananta	1880 500	2	Total=14 Function=0 Unfunction=14	Diesel Well Pump	na	Protected Spring	4.8806	32.8366	Utananta	1988	na	Diesel Pump	na	1988	na	Stole n	na	Cylindrical	na	UF	9PWP for 1900 people 5PWP Utananta for 500 people	UF	No	Yes	na	na	na	na	na	na
TuPW-02	Tabora Urban	Misha	Igambilo	54 Igambilo kati	450	1	Total=2 Unfunction=2	Electrical Centrifugal Pump	4500	Dam	4.89759	32.71584	na	na	na	Electrical	na	1964	24	F	na	Cylindrical	na	UF	na	F	na	Yes	Clear	tasteless	28.4	6.7	0.43	10.44
TuPW-02	Tabora Urban	Misha	Itaga	59 Itobi 61 Kagera 62 Mapambano	na	1	na	Electrical Submersible Pump	na	Dam	4.89759	32.71584	na	na	na	Electrical	na	1964	24	F	na	Cylindrica l	na	UF	na	F	na	Yes	Clear	tasteless	28.4	6.7	0.43	10.44
TuPW-02	Tabora Urban	Misha	Misha	74 Misha Kati	50	1	Total= 3 Function=0 UFunction=3	Electrical Submersible Pump	250	Dam	4.89759	32.71584	na	na	na	Electrical	na	1964	24	F	na	Cylindrica l	na	UF	3PWP UF=3	UF	No	Yes	Clear	tasteless	28.4	6.7	0.43	10.44
UrPW-01	Urambo	Ichemba	Ichemba	1 Ichemba 2 Kasisi 3 Mgelela	na	1	Total=13 Function=0 Unfunction=13	Diesel Well Pump	na	Stream/River	4.72624	32.36072	na	na	na	na	na	1974	na	Stole n	174	Cylindrical	na	UF	na	UF	na	no	na	na	na	na	na	na
UrPW-02	Urambo	Igagala	Wachawaseme	24 Igembensabo 25 Kazana Upate	na	1	na	Diesel Well Pump	na	Charco dam	4.9336	31.53435	Tulieni	1978	na	Diesel pump	na	na	na	Stole n	na	Cylindrical	na	UF	na	UF	no	na	na	na	na	na	na	na
UrPW-02	Urambo	Igagala	Kazana Upate	43 Tulieni 45 Wachawaseme	1336	1	15	Diesel Well Pump	267	Charco dam	4.9336	31.53435	Tulieni	1978	na	Diesel pump	na	na	na	Stole n	na	Cylindrical	na	UF	8PWP Kazana upate 7PWP Igembe Nsabo	UF	no	Yes	na	na	na	na	na	na
UrPW-03	Urambo	Igagala	Mtakuja	31 Igalala No. 4 32 Igalala No. 5 33 Igalala No. 6	6500	1	Total=7 Function=na Unfunction=na	Diesel Well Pump	1300	Deep well	4.92477	31.66366	Tulieni	1978	na	Diesel pump	na	na	na	UF	na	Cylindrical	na	UF	na	UF	Yes	Yes	na	na	na	na	na	na

List of Existing Water Supply Facilities (Piped Scheme)

				General information					GPS Coordinates (Map Datum: Arc 1960)			Well Information			Motorized Pump Information					Water Tank Information				Public Water Points (PWPs) Information	Operating Status of PWSS			Water Quality on the Field					
No. of Piped Water Supply Scheme (PWP)	District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Supply Population	No. of Water Source	Total Number, Functionning (F) Number and Unfunctionning (UF) Number of Public Water Points	Pumping System	Daily Consumption (m^3/day)	Water Source Type	Latitude	Longitude	Sub Village / Street	Drilling Year	Drilling Depth (m)	Type of Motorized Pump	Power (kW)	Installation Year	Operation Hours / day	Status	Capacity of Tank (m^3)	Shape of Tank	Elevation of Tank (m)	Status	Numbers of PWPs and Supply Population in each Sub-Village / Street	Status of PWSS	Do / Did the taps have attendants?	Does PWSS has pump operator?	Colour	Taste	Temp (°C)	pH	Fluoride (mg/L)	EC (mS/m)
UrPW-04	Urambo	Igagala	Mpwaga	27 Kanoge 28 Mpwaga	1200	1	Total=6 Function=0 Unfunction=6	Diesel Well Pump	420	Charco dam	4.92158	31.68.8	Mpwaga	1979	na	Diesel pump	na	na	na	UF	na	Cylindrical	na	UF	3PWP Mpwage 3PWP Kanoge	UF	NO	Yes	na	na	na	na	na	na
UrPW-04	Urambo	Igagala	Kamsekwa	22 Kamsekwa 23 Kiloleni	3000	1	na	Diesel Well Pump	1050	na	na	na	na	na	na	na	na	na	na	na	na	Cylindrical	na	UF	3PWP Kiloleni 3PWP Kamsekwa	UF	no	Yes	na	na	na	na	na	na
UrPW-05	Urambo	Kaliua	Kaliua Magharibi	84 Maendeleo 85 Mandela 86 Mwangaza	7600	1	Total=5 Function=na Unfunction=na	Electrical Submersible Pump and Diesel Well Pump	10000	Charco dam	5.05822	31.79515	Mandela	na	na	Diesel well pump and Electrical pump	na	na	na	UF	na	Cylindrical	na	F	Total=6	UF	Yes	Yes	na	na	na	na	na	na
UrPW-05	Urambo	Kaliua	Kaliua Mashariki	84 Maendeleo 85 Mandela 86 Mwangaza 87 Umoja	5017	1	Total=6 Function=na Unfunction=na	Electrical Submersible Pump and Diesel Well Pump	1000	Charco dam	5.05822	31.79515	Mandela	na	na	Diesel well pump and Electrical pump	na	na	na	UF	na	Cylindrical	na	F	na	UF	Yes	Yes	na	na	na	na	na	na
UrPW-06	Urambo	Kashishi	Kashishi	128 Ugundu 123 Kashishi Magharibi 124 Kashishi Mashariki 127 Lisule	8805	1	Total=23 Function=23 Unfunction=0	Diesel Well Pump	1760	Protected Spring	4.36622	32.38776	Toroma	na	na	Diesel pump	22.6	na	1.04	F	na	Cylindrical	na	F	Total=24 1PWP Ugundu 2PWP Usule 10PWP Kashishi Mashariki 10PWP Kashishi Magharibi	F	Yes	Yes	Turbid	Tasteless	25.5	5.7	0.12	73.6
UrPW-06	Urambo	Kashishi	Kashishi	128 Ugundu 123 Kashishi Magharibi 124 Kashishi Mashariki 127 Lisule	8805	1	Total=23 Function=23 Unfunction=0	Diesel Well Pump	1760	Protected Spring	4.36622	32.38776	Toroma	na	na	Diesel pump	22.6	na	1.04	F	na	Cylindrical	na	F	Total=24 1PWP Ugundu 2PWP Usule 10PWP Kashishi Mashariki 10PWP Kashishi Magharibi	F	Yes	Yes	Turbid	Tasteless	25.5	5.7	0.12	73.6
UrPW-07	Urambo	Kazaroho	Igwisi	160 Imalampaka 161 Twende pamoja	na	1	Total=6 Function=0 Unfunction=6	Diesel Well Pump	na	Deep well	4.944	31.89461	Imalampaka	na	na	Diesel pump	na	na	na	UF	na	Cylindrical	na	F	4PWP Twendepamoje 2PWP Imarampmpaka	UF	Yes	Yes	na	na	na	na	na	na
UrPW-08	Urambo	Kazaroho	Kazaroho	167 Kazaroho Mashariki 166 Kazaroho Magharibi	na	1	Total=10 Function=na Unfunction=na	Diesel Well Pump	na	Deep well	4.98979	31.86503	Kazaroho mashariki	na	na	Diesel pump	na	na	na	UF	na	Cylindrical	na	F	na	UF	VWC	no	na	na	na	na	na	na
UrPW-09	Urambo	Songambele	Jionee mwenyewe	244 Farm 245 Mazengo 246 Ululivu	na	1	na	Diesel Well Pump	na	Deep well	4.91216	32.13364	Twenty Four	1982	65	na	na	na	na	na	22.5	Cylindrical	8	UF	na	UF	Yes	Yes	Clear	Tastless	25.9	6.09	0.14	5.61

List of Existing Water Supply Facilities (Piped Scheme)

				General information						GPS Coordinates (Map Datum: Arc 1960)		Well Information			Motorized Pump Information					Water Tank Information				Public Water Points (PWPs) Information	Operating Status of PWSS			Water Quality on the Field					
No. of Piped Water Supply Scheme (PWP)	District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Supply Population	No. of Water Source	Total Number, Functionning (F) Number and Unfunctionning (UF) Number of Public Water Points	Pumping System	Daily Consumption (m³/day)	Water Source Type	Latitude	Longitude	Sub Village / Street	Drilling Year	Drilling Depth (m)	Type of Motorized Pump	Power (kW)	Installation Year	Operation Hours / day	Status	Capacity of Tank (m³)	Shape of Tank	Elevation of Tank (m)	Status	Numbers of PWPs and Supply Population in each Sub-Village / Street	Status of PWSS	Do / Did the taps have attendants?	Does PWSS has pump operator?	Colour	Taste	Temp (°C)	pH	Fluoride (mg/L)	EC (mS/m)
UrPW-09	Urambo	Songambele	Mlangane	251 Mlangane 252 Nyakabagwe 253 Nyerere 254 Ukwanga	na	1	na	na	na	Deep well	4.91216	32.13364	Twenty Four	1982	65	na	na	na	na	na	22.5	Cylindrical	8	UF	na	na	na	na	Clear	Tasteless	25.9	6.09	0.14	5.61
UrPW-10	Urambo	Songambele	Songambele	256 Kati 259 Mashariki 260 Mtakuja 261 Utusini 258 Magharibi	na	1	Total=8 Function=0 Unfunction=8	Diesel Well Pump	na	Deep well	4.90572	32.09462	Farm 4	1975	na	Diesel well pump	na	1975	na	UF	na	Cylindrical	na	UF	na	UF	Yes	no	na	na	na	na	na	na
UrPW-10	Urambo	Songambele	Songambele	256 Kati 259 Mashariki 260 Mtakuja 261 Utusini 258 Magharibi	na	1	Total=8 Function=0 Unfunction=8	Diesel Well Pump	na	Deep well	4.90572	32.09462	Farm 4	1975	na	Diesel well pump	na	1975	na	UF	na	Cylindrical	na	UF	na	UF	Yes	no	na	na	na	na	na	na
UrPW-10	Urambo	Songambele	Songambele	256 Kati 259 Mashariki 260 Mtakuja 261 Utusini 258 Magharibi	na	1	Total=8 Function=0 Unfunction=8	Diesel Well Pump	na	Deep well	4.90572	32.09462	Farm 4	1975	na	Diesel well pump	na	1975	na	UF	na	Cylindrical	na	F	na	UF	Yes	no	na	na	na	na	na	na
UrPW-11	Urambo	Ukondamoyo	Tumaini	296a Magereza	na	1	Total=5	Diesel Well Pump	na	Deep well	5.1836	32.03748	Magereza	1969	na	Diesel well pump / mono pump	na	na	na	UF	na	Cylindrical	na	F	5PWP Magereza	UF	Yes	Yes	na	na	na	na	na	na
UrPW-12	Urambo	Ukondamoyo	Ukondamoyo	301 Farm 14 300 Farm 10	1875	1	Total=9 Function=0 Unfunction=9	Diesel Well Pump	na	Deep well	5.12018	32.0071	Farm 12	na	na	Diesel well pump	na	na	na	UF	na	Cylindrical	na	F	4PWP Farm 10 5PWP Farm12	UF	NO	Yes	na	na	na	na	na	na
UrPW-13	Urambo	Ukondamoyo	Ukondamoyo	302 Farm 2 corner	na	1	Total=2 Function=2 Unfunction=0	Diesel Well Pump	na	Deep well	5.12205	32.0301	Farm 2 - coner	na	na	Diesel well pump	na	na	8	F	na	Cylindrical	na	F	na	F	yes	yes	Clear	Tasteless	27.7	6.4	0.11	62
UrPW-14	Urambo	Urambo	Urambo Kati	330 Kati kaskazini 331 Kati kusini 332 Tulieni	na	5	na	Diesel Well Pump	na	Deep well	5.06808	32.06993	Urambo kati Kusini	1975	na	na	na	1975	na	UF	na	Cylindrical	na	F	na	F	No	No	Clear	Slightly Salty	23.7	7.08	0.33	58
UrPW-14	Urambo	Urambo	Urambo Kusini	333 Block O 334 Boma Village 335 Mabatini 336 Matangi manne	na	5	na	Diesel Well Pump	na	Deep well	5.09279	32.06935	Mabatini	1997	na	na	na	1997	na	UF	na	Cylindrical	na	F	na	UF	Yes	Yes	na	na	na	na	na	na

List of Existing Water Supply Facilities (Piped Scheme)

				General information						GPS Coordinates (Map Datum: Arc 1960)			Well Information			Motorized Pump Information					Water Tank Information					Public Water Points (PWPs) Information	Operating Status of PWSS			Water Quality on the Field					
No. of Piped Water Supply Scheme (PWP)	District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Supply Population	No. of Water Source	Total Number, Functionning (F) Number and Unfunctionning (UF) Number of Public Water Points	Pumping System	Daily Consumption (m³/day)	Water Source Type	Latitude	Longitude	SubVillage / Street	Drilling Year	Drilling Depth (m)	Type of Motorized Pump	Power (kW)	Installation Year	Operation Hours / day	Status	Capacity of Tank (m^3)	Shape of Tank	Elevation of Tank (m)	Status	Numbers of PWPs and Supply Population in each Sub-Village / Street	Status of PWSS	Do / Did the taps have attendants?	Does PWSS has pump operator?	Colour	Taste	Temp (°C)	pH	Fluoride (mg/L)	EC (mS/m)
UrPW-14	Urambo	Urambo	Urambo Magharibi	337 Magharibi Kaskazi 338 Magharibi kusini 339 Seed farm 340 Urambo mjini	na	5	na	Diesel Well Pump	na	Deep well	5.08453	32.07153	Bock Q	1997	na	Lister Peter	na	1997	na	F	na	Rectangular	na	F	Block Q (hospital user)	F	no	Yes	Clear	Slighty Salty	23.7	7.08	0.33	58
UrPW-14	Urambo	Urambo	Urambo Mashariki	341 Kitega uchumi 342 Mwenge 343 Shimoni 344 Urambo mama	na	5	na	Diesel Well Pump	na	Deep well	5.06619	32.07131	Matangi Manne	1975	na	na	na	1975	24	F	na	Cylindrical	na	F	na	F	no	no	Clear	Slighty Salty	23.7	7.08	0.33	58
UrPW-14	Urambo	Urambo	Urambo Mashariki	341 Kitega uchumi 342 Mwenge 343 Shimoni 344 Urambo mama	na	5	na	Diesel Well Pump	na	Deep well	5.06789	32.0719	Shimoni	1975	na	na	na	1975	24	A	na	Cylindrical	na	F	na	F	no	no	na	na	na	na	na	na
UrPW-15	Urambo	Usisya	Usisya	407 Usisya kati	885	1	Total=4 Function=4 Unfunction=0	Diesel Well Pump	905	Unprotected Spring	5.10029	32.23132	Usisya Kati	na	na	na	na	na	na	F	5	Cylindrical	na	F	4PWP Usisya Kati 885 people	F	Yes	Yes	Milky	Tasteless	24.4	6.2	0.09	12.4
UrPW-15	Urambo	Usisya	Usisya	407 Usisya kati	885	1	Total=4 Function=4 Unfunction=0	Diesel Well Pump	905	Unprotected Spring	5.10029	32.23132	Usisya Kati	na	na	na	na	na	na	F	6	Cylindrical	na	F	4PWP Usisya Kati 885 people	F	Yes	Yes	Milky	Tasteless	24.4	6.2	0.09	12.4
UrPW-16	Urambo	Ussoke	Ussoke	418 Ussoke Kaskazini 421 Ussoke Mashariki 420 Ussoke Magharibi 419 Ussoke Kati	na	2	Total=12 Function=0 Unfunction=12	Diesel Well Pump	na	Unprotected Spring	5.08668	32.32596	Kasikazini	na	na	Diesel	na	na	na	UF	na	Cylindrical	na	UF	Kasikazini=2PWP Masharikoi=2PWP Magharibi=2PWP Kati=2PWP	UF	No	No	na	na	na	na	na	na
UrPW-16	Urambo	Ussoke	Ussoke	418 Ussoke Kaskazini 421 Ussoke Mashariki 420 Ussoke Magharibi 419 Ussoke Kati	na	2	Total=12 Function=0 Unfunction=12	Diesel Well Pump	na	Unprotected Spring	5.0867	32.3261	Kasikazini	na	na	Diesel	na	na	na	UF	na	Cylindrical	na	F	Kasikazini=2PWP Masharikoi=2PWP Magharibi=2PWP Kati=2PWP	UF	No	No	na	na	na	na	na	na
UrPW-17	Urambo	Ussoke	Ussoke	422 Ussoke sokoni	na	1	Total=2 Function=2 Unfunction=0	Diesel Well Pump	na	Deep well	5.10125	32.33014	Sokoni	na	na	Diesel	na	na	1	F	na	na	na	na	2PWP Sokoni	F	Yes	Yes	Clear	Tasteless	27.4	6.1	0.05	33
UrPW-18	Urambo	Uyowa	Uhindini	436 Mapinduzi 437 Mtimbi 438 Sheme 439 Uyowa	5000	2	na	na	na	Stream/River	5.02195	32.80805	na	na	na	na	na	1974	0	Stolen	174	Cylindrical	na	UF	na	UF	na	no	na	na	na	na	na	na

List of Existing Water Supply Facilities (Piped Scheme)

				General information						GPS Coordinates (Map Datum: Arc 1960)			Well Information			Motorized Pump Information					Water Tank Information				Public Water Points (PWPs) Information	Operating Status of PWSS			Water Quality on the Field					
No. of Piped Water Supply Scheme (PWP)	District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Supply Population	No. of Water Source	Total Number, Functionning (F) Number and Unfunctionning (UF) Number of Public Water Points	Pumping System	Daily Consumption (m^3/day)	Water Source Type	Latitude	Longitude	SubVillage / Street	Drilling Year	Drilling Depth (m)	Type of Motorized Pump	Power (kW)	Installation Year	Operation Hours / day	Status	Capacity of Tank (m^3)	Shape of Tank	Elevation of Tank (m)	Status	Numbers of PWPs and Supply Population in each Sub-Village / Street	Status of PWSS	Do / Did the taps have attendants?	Does PWSS has pump operator?	Colour	Taste	Temp (°C)	pH	Fluoride (mg/L)	EC (mS/m)
UrPW-18	Urambo	Uyowa	Uhindini	436 Mapinduzi 437 Mlimbi 438 Sheme 439 Uyowa	5000	2	na	na	na	Deep Well	4.54267	31.96594	Scheme	1992	120	na	na	1992	na	UF	174	Cylindrical	na	UF	na	UF	na	no	na	na	na	na	na	na
UrPW-19	Urambo	Uyumbu	Usoke mlimani	463 Milambo 463a Mkwawa 464 Misheni	1366	1	Total=11 Function=2 Unfunction=9	Diesel Well Pump	625	Dam	5.1637	32.35937	Milambo	na	na	Diesel	na	na	2	F	na	Cylindrical	na	F	3PWP Milambo for 702 people 3PWP Mkwawa for 273 people 5PWP Misheni for 424 people	F	Yes	Yes	na	na	na	na	na	na

Data Book C

Results of Water Quality Analyses

Water Quality Test on the Field for Hand Pump in Igunga District (1/1)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-8	Igunga	Chabutwa	Majengo	Imalanguzu	20-Oct-09	Shallow well	4.60468	33.43599	1223	Milky	Tasteless	26.3	6.4	0.500	14.90
HP-9	Igunga	Chabutwa	Majengo	Imalanguzu	20-Oct-09	Shallow well	4.59217	33.44124	1222	Milky	Tasteless	25.0	6.0	0.400	18.00
HP-11	Igunga	Chabutwa	Majengo	Majengo	20-Oct-09	Shallow well	4.60693	33.44216	1226	Milky	Tasteless	27.3	6.3	1.100	16.50
HP-13	Igunga	Chabutwa	Majengo	Mhimbili	20-Oct-09	Shallow well	4.61581	33.4487	1233	Milky	Tasteless	27.0	5.9	0.300	5.10
HP-21	Igunga	Igoweko	Uswaya	Mwakadele	20-Oct-09	Deep well	4.71163	33.52151	1239	Clear	Salty	27.3	5.9	0.240	22.60
HP-22	Igunga	Igoweko	Uswaya	Mwakadele	20-Oct-09	Deep well	4.70401	33.51944	1236	Clear	Salty	27.2	6.4	0.700	32.00
HP-24	Igunga	Igoweko	Uswaya	Mwakunuha	20-Oct-09	Deep well	4.6747	33.52219	1223	Clear	Salty	26.7	6.9	2.300	77.80
HP-25	Igunga	Igoweko	Uswaya	Uswaya	20-Oct-09	Deep well	4.69008	33.50302	1226	Clear	Salty	27.3	6.6	2.300	149.40
HP-29	Igunga	Igunga	Isugilo	Nkokoto	22-Oct-09	Shallow Well	4.28282	33.8821	1085	Colourless	Tasteless	24.6	8.3	4.300	28.80
HP-32	Igunga	Igunga	Makomero	Magharibi	21-Oct-09	Deep well	4.2998	33.98211	1053	Colourless	Little salty	26.7	7.6	1.200	70.00
HP-38	Igunga	Itumba	Itumba	Mhamammoja	21-Oct-09	Deep well	4.60206	33.80802	1089	Clear	Salty	26.2	6.8	2.000	239.00
HP-39	Igunga	Itumba	Lugubu	Lugubu	21-Oct-09	Shallow well	4.55522	33.87362	1062	Colourless	Salty	27.1	7.7	1.280	46.80
HP-45	Igunga	Mwamashimba	Imalanguzu	Buchele	12-Oct-09	Deep well	4.11763	33.80041	1123	Clear	Very salty	30.8	9.0	4.700	210.00
HP-46	Igunga	Mwisi	Busomeke	Kati	19-Oct-09	Shallow well	4.52634	33.46682	1272	Clear	Little Salty	26.4	6.2	0.430	33.30
HP-48	Igunga	Mwisi	Busomeke	Kati	19-Oct-09	Shallow well	4.52134	33.45459	1274	Milky	Little Salty	26.7	6.6	0.600	17.36
HP-51	Igunga	Mwisi	Isenegeja	Isenegeja Mjini Magharibi	19-Oct-09	Shallow well	4.52457	33.44086	1278	Milky	Salty	27.6	7.0	1.300	73.20
HP-53	Igunga	Mwisi	Mizanza	Dodoma	19-Oct-09	Shallow well	4.52177	33.54269	1215	Milky	Tasteless	27.0	6.6	0.700	17.10
HP-62	Igunga	Ndembez	Ndembezi	Igomamhuli A	16-Oct-09	Deep well	4.3263	33.41709	1257	Milky	Little salty	25.8	7.8	2.600	124.20
HP-69	Igunga	Nguvmoja	Nguvumoja	Isukamahela	21-Oct-09	Deep well	4.41857	33.85589	1143	Clear	Little salty	28.6	6.2	0.940	50.80
HP-72	Igunga	Nkinga	Nkinga	Njiapanda	19-Oct-09	Deep well	4.39857	33.44256	1253	Clear	Salty	27.3	7.3	4.400	97.20
HP-75	Igunga	Nyandekwa	Itale	Itale	16-Oct-09	Deep well	4.31582	33.50574	1218	Clear	Tasteless	28.4	6.7	1.200	72.00
HP-76	Igunga	Nyandekwa	Nyandekwa	Mwabashosha	16-Oct-09	Deep well	4.23809	33.52356	1184	Clear	Salty	24.3	7.2	2.200	89.30
HP-78	Igunga	Simbo	Simbo	Busomeke	20-Oct-09	Deep well	4.65703	33.42955	1224	Clear	Tasteless	27.0	6.4	0.720	25.60
HP-82	Igunga	Simbo	Simbo	Nzibe	20-Oct-09	Deep well	4.66244	33.43852	1234	Greyish	Tasteless	25.0	6.0	0.320	12.12
HP-86	Igunga	Simbo	Tambalalae	Ugimu	20-Oct-09	Deep well	4.64019	33.51053	1232	Clear	Salty	26.0	6.1	1.300	105.60
HP-87	Igunga	Simbo	Tambalalae	Ugimu	20-Oct-09	Deep well	4.63569	33.51295	1230	Milky	Tasteless	24.0	6.2	0.400	8.16
HP-89	Igunga	Simbo	Tambalalae	Ugimu	20-Oct-09	Shallow well	4.64586	33.51162	1228	Milky	Tasteless	26.7	6.4	1.400	112.00
HP-90	Igunga	Sungwizi	Sungwizi	Ikulu	19-Oct-09	Shallow well	4.45793	33.51958	1234	Clear	Salty	24.5	7.8	7.400	136.00
HP-96	Igunga	Ziba	Iborogelo	Ulunde	15-Oct-09	Deep well	4.23892	33.47128	1197	Clear	Tasteless	27.9	7.8	10.300	129.90
HP-101	Igunga	Ziba	Ziba	Ipuli	15-Oct-09	Deep well	4.28024	33.40283	1234	Clear	Salty	29.0	7.3	4.000	165.00
HP-102	Igunga	Ziba	Ziba	Iselamagazi	15-Oct-09	Deep well	4.19654	33.40723	1252	Clear	Salty	29.0	7.0	2.100	56.00
HP-103	Igunga	Ziba	Ziba	Kakinda	15-Oct-09	Deep well	4.23667	33.42369	1234	Clear	Salty	27.0	7.6	4.400	110.00

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Nzega District (1/6)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-105	Nzega	Budushi	Budushi	Uswahilini	26-Oct-09	Deep well	4.79031	33.33165	1214	Clear	Salty	28.7	6.3	1.520	63.50
HP-110	Nzega	Bukene	Bukene	Majengo	29-Oct-09	Shallow well	4.21552	32.88611	1187	Clear	Fresh	28.0	6.1	0.400	6.40
HP-111	Nzega	Bukene	Bukene	Mbale	29-Oct-09	Shallow well	4.21245	32.9044	1191	Clear	Fresh	28.2	6.2	0.400	4.60
HP-113	Nzega	Bukene	Bukene	Mwantoba	29-Oct-09	Shallow well	4.21873	32.87996	1187	Clear	Salty	27.8	6.4	1.560	67.30
HP-115	Nzega	Bukene	Bukene	Tanganyika	29-Oct-09	Shallow well	4.2314	32.86545	1181	Clear	Fresh	27.8	6.3	0.400	4.40
HP-120	Nzega	Igusule	Sojo	Bukalila	28-Oct-09	Deep well	3.94297	32.83474	1194	Clear	Fresh	27.1	6.5	ND	18.00
HP-121	Nzega	Igusule	Sojo	Igudija	28-Oct-09	Deep well	3.953	32.85161	1204	Clear	Salty	27.8	5.5	1.560	288.90
HP-122	Nzega	Igusule	Sojo	Ngogoto	28-Oct-09	Deep well	4.01132	32.85589	1161	Clear	Salty	27.1	5.1	1.590	299.20
HP-125	Nzega	Igusule	Sojo	Nseme	28-Oct-09	Deep well	3.94066	32.86305	1198	Clear	Salty	27.6	4.9	1.540	250.00
HP-127	Nzega	Igusule	Sojo	Selemi	28-Oct-09	Deep well	3.92789	32.86115	1195	Clear	Salty	27.9	5.0	1.570	290.00
HP-128	Nzega	Igusule	Sojo	Sojo Mpya	28-Oct-09	Deep well	3.94084	32.85171	1196	Clear	Fresh	27.2	6.8	ND	9.90
HP-129	Nzega	Igusule	Sojo	Sojo Mpya	28-Oct-09	Shallow well	3.94507	32.85814	1200	Clear	Fresh	27.4	6.0	0.400	21.80
HP-130	Nzega	Igusule	Wela Ii	Wela Kati	28-Oct-09	Deep well	3.95406	32.83328	1207	Clear	Fresh	27.8	6.8	ND	18.00
HP-131	Nzega	Ijanija	Butandula	Butandula	22-Oct-09	Deep well	4.16294	33.11915	1206	Clear	Bitter/Salty	28.2	6.8	1.920	325.00
HP-138	Nzega	Ijanija	Makomelo	Makomelo	22-Oct-09	Shallow well	4.22137	33.14609	1214	Clear	No Salty	27.2	6.8	0.400	6.40
HP-139	Nzega	Ijanija	Uchama	Uchama	22-Oct-09	Deep well	4.17554	33.17293	1213	Clear	Salty	28.3	6.9	1.870	120.00
HP-140	Nzega	Ikindwa	Ikindwa	Ikindwa	5-Nov-09	Shallow well	4.12904	32.89624	1198	Clear	Salty	29.3	6.5	0.400	15.00
HP-146	Nzega	Ikindwa	Ikindwa	Nduli	5-Nov-09	Shallow well	4.15528	32.91833	1206	Clear	Fresh	28.9	6.5	0.400	4.50
HP-150	Nzega	Ikindwa	Ikindwa	Nzanza	5-Nov-09	Shallow well	4.12869	32.89057	1203	Clear	Fresh	28.0	6.5	ND	4.50
HP-152	Nzega	Ikindwa	Kayombo	Ibongoya	5-Nov-09	Shallow well	4.13815	32.87429	1201	Clear	Fresh	28.0	7.1	0.400	8.80
HP-153	Nzega	Ikindwa	Kayombo	Ibongoya	5-Nov-09	Shallow well	4.14559	32.86929	1200	Clear	Fresh	27.9	6.8	0.400	8.50
HP-158	Nzega	Ikindwa	Kayombo	Imalanguzu	5-Nov-09	Shallow well	4.14874	32.90904	1209	Clear	Fresh	28.8	7.2	0.400	4.90
HP-160	Nzega	Ikindwa	Kayombo	Isukamawe	5-Nov-09	Shallow well	4.14189	32.88902	1204	Clear	Fresh	28.0	7.2	0.400	4.20
HP-162	Nzega	Ikindwa	Kayombo	Isukamawe	5-Nov-09	Shallow well	4.13367	32.8853	1209	Clear	Fresh	28.0	7.0	ND	6.30
HP-164	Nzega	Ikindwa	Kayombo	Mumba	5-Nov-09	Shallow well	4.14352	32.86056	1199	Clear	Fresh	28.0	6.5	0.400	4.60
HP-165	Nzega	Ikindwa	Kayombo	Uchama	5-Nov-09	Shallow well	4.12645	32.87317	1199	Clear	Salty	28.6	7.3	1.500	27.20
HP-166	Nzega	Ikindwa	Malolo	Ifubyanzige	5-Nov-09	Shallow well	4.10296	32.85345	1171	Clear	Salty	28.0	7.0	0.400	16.60
HP-167	Nzega	Ikindwa	Malolo	Izima	5-Nov-09	Shallow well	4.09446	32.86862	1162	Clear	Fresh	28.6	6.9	0.400	4.70
HP-170	Nzega	Ikindwa	Malolo	Malolo	5-Nov-09	Shallow well	4.09981	32.86177	1167	Clear	Fresh	28.3	6.5	0.400	4.20
HP-173	Nzega	Ikindwa	Malolo	Sole	5-Nov-09	Shallow well	4.09322	32.91229	1163	Clear	Fresh	28.2	6.8	0.400	5.60
HP-177	Nzega	Isagenhe	Kidete	Kidete	19-Oct-09	Shallow well	4.25321	32.94771	1203	Clear	Fresh	27.0	5.4	ND	12.00
HP-178	Nzega	Isagenhe	Kidete	Mbulagili	19-Oct-09	Shallow well	4.2364	32.93533	1191	Clear	Fresh	27.9	5.9	0.400	18.90
HP-182	Nzega	Isanzu	Isanzu	Isanzu	16-Oct-09	Shallow well	4.26904	33.08097	1234	Clear	Clear	28.8	6.6	0.400	16.20
HP-183	Nzega	Isanzu	Isanzu	Iyangulo	16-Oct-09	Shallow well	4.28042	33.05005	1244	Clear	Clear	28.4	6.7	0.400	19.30
HP-184	Nzega	Isanzu	Isanzu	Kadata	16-Oct-09	Shallow well	4.27232	33.05813	1240	Clear	Clear	28.7	6.5	0.400	18.80
HP-187	Nzega	Isanzu	Shila	Shila	16-Oct-09	Deep well	4.24523	33.09528	1237	Clear	Clear	28.9	6.7	0.400	25.60
HP-188	Nzega	Itobo	Chamwabo	Bulindi	22-Oct-09	Shallow well	4.20592	33.00867	1207	Clear	Fresh	27.0	6.2	0.400	10.20
HP-189	Nzega	Itobo	Chamwabo	Bunonga	22-Oct-09	Shallow well	4.21989	33.02316	1203	Clear	Fresh	27.0	6.2	0.400	12.00
HP-190	Nzega	Itobo	Chamwabo	Chamwabo	22-Oct-09	Shallow well	4.21064	32.99895	1203	Clear	Fresh	26.8	6.8	0.400	25.00
HP-191	Nzega	Itobo	Chamwabo	Igedeja	22-Oct-09	Shallow well	4.19675	33.01349	1203	Clear	Fresh	28.2	6.4	0.800	12.00
HP-192	Nzega	Itobo	Chamwabo	Isagenhe	22-Oct-09	Shallow well	4.20171	32.99558	1204	Clear	Fresh	27.0	6.2	0.400	12.00
HP-193	Nzega	Itobo	Chamwabo	Isagenhe	22-Oct-09	Shallow well	4.2019	32.98318	1197	Clear	Fresh	26.8	6.8	0.400	25.00
HP-194	Nzega	Itobo	Chamwabo	Isagenhe	22-Oct-09	Shallow well	4.1957	32.98791	1197	Clear	Fresh	27.0	6.2	0.400	12.00
HP-195	Nzega	Itobo	Chamwabo	Ishola	22-Oct-09	Shallow well	4.21669	33.01634	1204	Clear	Fresh	29.6	6.2	0.400	10.00
HP-196	Nzega	Itobo	Chamwabo	Kakola	22-Oct-09	Shallow well	4.22366	33.02946	1205	Clear	Fresh	26.8	6.8	0.400	25.00
HP-197	Nzega	Itobo	Chamwabo	Kakola	22-Oct-09	Shallow well	4.23536	33.02599	1215	Clear	Fresh	27.1	7.0	1.740	250.00
HP-198	Nzega	Itobo	Chamwabo	Mwakabata	22-Oct-09	Shallow well	4.2068	32.99785	1204	Clear	Fresh	27.1	7.0	1.980	250.00
HP-199	Nzega	Itobo	Chamwabo	Mwakabata	22-Oct-09	Shallow well	4.19344	32.99695	1198	Clear	Fresh	29.6	6.2	0.400	10.40
HP-200	Nzega	Itobo	Chamwabo	Sundwi	22-Oct-09	Shallow well	4.20358	33.02055	1208	Clear	Fresh	28.4	5.9	0.400	9.20

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Nzega District (2/6)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-201	Nzega	Itobo	Chamwabo	Sundwi	22-Oct-09	Shallow well	4.20323	33.0309	1208	Clear	Fresh	28.9	6.8	0.400	11.10
HP-202	Nzega	Itobo	Chamwabo	Sundwi	22-Oct-09	Shallow well	4.2132	33.03016	1203	Clear	Fresh	28.8	6.1	0.400	10.60
HP-208	Nzega	Itobo	Itobo	Nzegampya	22-Oct-09	Shallow well	4.16485	33.02494	1190	Clear	Fresh	27.8	6.0	0.800	10.90
HP-210	Nzega	Itobo	Itobo	Utwale	22-Oct-09	Shallow well	4.16968	33.00498	1195	Clear	Fresh	29.6	6.2	0.400	10.00
HP-211	Nzega	Itobo	Itobo	Uyombo	22-Oct-09	Shallow well	4.1905	33.02663	1196	Clear	Fresh	29.6	6.2	0.400	10.00
HP-214	Nzega	Itilo	Itilo	Itilo Kati	16-Oct-09	Shallow well	4.26463	33.17662	1248	Clear	Clear	23.7	6.2	0.400	12.80
HP-221	Nzega	Itilo	Silimuka	Wikligwa	16-Oct-09	Shallow well	4.25695	33.19369	1238	Clear	Clear	24.1	6.3	0.400	12.20
HP-224	Nzega	Kahama Nhalanga	Iditima	Kalagwa	4-Nov-09	Shallow well	4.17093	32.72668	1229	Clear	Fresh	28.3	7.2	0.400	4.40
HP-230	Nzega	Kahama Nhalanga	Kahama Nhalanga	Kahama Nhalanga	4-Nov-09	Shallow well	4.18169	32.7925	1199	Clear	Fresh	28.7	6.3	0.400	9.80
HP-235	Nzega	Kahama Nhalanga	Kilino	Kilino	4-Nov-09	Shallow well	4.18575	32.81593	1199	Clear	Fresh	28.8	6.9	ND	4.40
HP-237	Nzega	Kahama Nhalanga	Nhabala	Kakoma	4-Nov-09	Shallow well	4.14506	32.67081	1225	Clear	Fresh	26.9	6.4	0.400	9.20
HP-240	Nzega	Kahama Nhalanga	Nhabala	Mwamakumbi 'B'	4-Nov-09	Shallow well	4.13766	32.72451	1222	Clear	Fresh	26.7	9.2	ND	27.50
HP-244	Nzega	Karitu	Bulunde	Bulunde	17-Oct-09	Shallow well	4.30714	32.97554	1235	Milky	Fresh	27.8	6.3	0.400	6.30
HP-249	Nzega	Karitu	Bulunde	Kalemela	17-Oct-09	Shallow well	4.33657	32.97318	1229	Clear	Fresh	26.0	6.1	0.400	12.00
HP-251	Nzega	Karitu	Gulumbai	Ugembe 1	17-Oct-09	Shallow well	4.28683	32.96832	1245	Clear	Clear	27.8	6.4	0.400	11.20
HP-252	Nzega	Karitu	Idubula	Bulambo	17-Oct-09	Shallow well	4.24123	33.00037	1217	Clear	Clear	27.2	5.9	0.400	10.20
HP-253	Nzega	Karitu	Idubula	Idanda	17-Oct-09	Shallow well	4.24108	32.99078	1208	Clear	Clear	29.6	6.2	0.400	10.00
HP-257	Nzega	Karitu	Idubula	Igonda Matanga	17-Oct-09	Shallow well	4.23459	32.99899	1212	Clear	Clear	29.7	5.8	0.400	10.80
HP-258	Nzega	Karitu	Idubula	Ipalilo	17-Oct-09	Shallow well	4.22935	32.97429	1204	Clear	Clear	27.8	5.9	0.400	10.80
HP-259	Nzega	Karitu	Idubula	Kindagili	17-Oct-09	Shallow well	4.23118	32.99081	1205	Clear	Clear	29.7	5.8	0.400	10.80
HP-260	Nzega	Karitu	Idubula	Manigilo	17-Oct-09	Shallow well	4.24394	33.01224	1224	Clear	Clear	27.3	5.8	0.400	10.40
HP-261	Nzega	Karitu	Itunda	Itunda 'A'	17-Oct-09	Shallow well	4.26255	32.98642	1222	Milky	Clear	27.3	6.4	0.400	10.20
HP-262	Nzega	Karitu	Itunda	Itunda 'A'	17-Oct-09	Shallow well	4.27183	32.98116	1242	Clear	Clear	27.5	6.3	0.400	10.80
HP-263	Nzega	Karitu	Itunda	Itunda 'A'	17-Oct-09	Shallow well	4.26609	32.98201	1234	Milky	Clear	27.4	5.9	0.400	10.40
HP-264	Nzega	Karitu	Itunda	Itunda 'A'	17-Oct-09	Shallow well	4.26506	32.98305	1232	Milky	Clear	27.8	6.0	0.800	10.90
HP-266	Nzega	Karitu	Itunda	Itunda 'A'	17-Oct-09	Shallow well	4.26186	32.97799	1222	Milky	Clear	27.3	6.4	0.400	10.40
HP-267	Nzega	Karitu	Itunda	Itunda 'A'	17-Oct-09	Shallow well	4.28009	32.97488	1242	Clear	Clear	27.9	5.9	0.400	10.90
HP-268	Nzega	Karitu	Itunda	Itunda 'A'	17-Oct-09	Shallow well	4.29286	32.97483	1249	Clear	Clear	26.0	6.8	0.400	11.50
HP-269	Nzega	Karitu	Itunda	Itunda 'B'	17-Oct-09	Shallow well	4.27591	32.98706	1240	Clear	Clear	26.9	6.4	0.400	10.10
HP-270	Nzega	Karitu	Itunda	Itunda 'B'	17-Oct-09	Shallow well	4.28942	32.98138	1252	Clear	Clear	27.0	6.5	0.400	12.00
HP-271	Nzega	Karitu	Itunda	Lubisu	17-Oct-09	Shallow well	4.27214	33.00332	1233	Clear	Clear	27.8	5.2	0.400	12.20
HP-272	Nzega	Karitu	Itunda	Lubisu	17-Oct-09	Shallow well	4.26362	33.00043	1240	Milky	Clear	27.9	6.3	0.400	10.90
HP-273	Nzega	Kasela	Kasela	Gangamala	27-Oct-09	Shallow well	4.08731	32.98207	1150	Clear	Fresh	27.1	6.1	ND	19.00
HP-275	Nzega	Kasela	Kasela	Idubula	27-Oct-09	Shallow well	4.1049	33.0009	1171	Clear	Fresh	27.9	6.1	ND	11.00
HP-281	Nzega	Kasela	Kasela	Kasela	27-Oct-09	Shallow well	4.09584	33.0126	1166	Clear	Fresh	27.8	6.0	ND	9.90
HP-284	Nzega	Kasela	Kasela	Kasela	27-Oct-09	Shallow well	4.09153	33.00798	1165	Clear	Fresh	27.6	6.0	ND	18.00
HP-285	Nzega	Kasela	Kasela	Njuka	27-Oct-09	Shallow well	4.07674	32.99312	1151	Clear	Fresh	27.9	6.4	ND	26.00
HP-289	Nzega	Kasela	Lububu	Igagati	27-Oct-09	Shallow well	4.1124	32.98394	1179	Clear	Fresh	27.0	6.1	0.400	7.90
HP-292	Nzega	Kasela	Lububu	Lububu	27-Oct-09	Shallow well	4.11864	32.98198	1188	Clear	Fresh	28.2	6.5	0.400	4.90
HP-294	Nzega	Kasela	Nindo	Sumbu	27-Oct-09	Shallow well	4.07587	33.00801	1159	Milky	Fresh	27.9	5.9	ND	10.00
HP-295	Nzega	Kasela	Senge	Udundya	27-Oct-09	Shallow well	4.06457	32.9772	1143	Milky	Fresh	27.8	5.6	ND	26.40
HP-296	Nzega	Kasela	Udutu	Hangaga	27-Oct-09	Shallow well	4.16551	32.97508	1200	Clear	Fresh	27.0	6.0	0.400	26.00
HP-297	Nzega	Kasela	Udutu	Hangaga	27-Oct-09	Shallow well	4.16853	32.9709	1197	Clear	Fresh	27.1	6.1	ND	15.00
HP-298	Nzega	Kasela	Udutu	Majengo	27-Oct-09	Shallow well	4.17217	32.95402	1195	Milky	Clear	27.2	6.3	ND	12.00
HP-300	Nzega	Kasela	Udutu	Majengo	27-Oct-09	Shallow well	4.17812	32.96589	1196	Clear	Fresh	27.0	5.9	0.400	29.00
HP-303	Nzega	Kasela	Udutu	Nguwa	27-Oct-09	Shallow well	4.14337	32.96895	1206	Clear	Fresh	27.0	6.9	ND	12.00
HP-304	Nzega	Kasela	Udutu	Ntungulu	27-Oct-09	Shallow well	4.13512	32.96515	1199	Clear	Salty	27.9	5.1	1.420	299.10
HP-306	Nzega	Kasela	Udutu	Ntungulu	27-Oct-09	Shallow well	4.12147	32.96962	1188	Clear	Fresh	26.9	6.9	ND	29.80
HP-307	Nzega	Kasela	Udutu	Nyashimba	27-Oct-09	Shallow well	4.12896	32.98766	1234	Clear	Salty	27.9	5.0	1.530	219.00

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Nzega District (3/6)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-308	Nzega	Kasela	Udutu	Nyashimba	27-Oct-09	Shallow well	4.1367	32.9843	1189	Clear	Salty	27.8	5.0	1.490	292.00
HP-309	Nzega	Kasela	Udutu	Sabage	27-Oct-09	Shallow well	4.14804	32.99528	1204	Clear	Fresh	27.1	5.4	0.400	28.00
HP-311	Nzega	Kasela	Udutu	Udutu	27-Oct-09	Shallow well	4.15866	32.96402	1209	Clear	Fresh	26.9	6.8	0.400	41.00
HP-313	Nzega	Lusu	Bujulu	Bujulu	13-Oct-09	Deep well	4.07647	33.23369	1141	Clear	Salty	27.2	5.9	0.400	40.00
HP-314	Nzega	Lusu	Bujulu	Isagenhe	13-Oct-09	Deep well	4.05136	33.25092	1134	Clear	Clear	26.8	6.1	0.400	6.30
HP-315	Nzega	Lusu	Bujulu	Mitundu	13-Oct-09	Deep well	4.033	33.23226	1119	Clear	Clear	27.1	6.8	0.800	36.00
HP-316	Nzega	Lusu	Bujulu	Mwamakoja	13-Oct-09	Deep well	4.05677	33.26518	1145	Clear	Clear	27.2	5.7	0.400	7.20
HP-319	Nzega	Lusu	Ifumba	Ifumba	13-Oct-09	Unknown	4.0091	33.23609	1112	Clear	Clear	26.8	6.2	0.800	18.00
HP-320	Nzega	Lusu	Ifumba	Ifumba	13-Oct-09	Unknown	3.99234	33.25681	1103	Clear	Clear	26.5	6.3	0.400	12.00
HP-321	Nzega	Lusu	Ifumba	Tindempya	13-Oct-09	Unknown	3.99764	33.24639	1109	Clear	Salty	26.9	6.7	0.400	36.80
HP-323	Nzega	Lusu	Isanga	Mwatandai	13-Oct-09	Shallow well	4.0497	33.21017	1121	Clear	Salty	27.1	7.6	0.800	162.00
HP-324	Nzega	Lusu	Mwakabasa	Mwakabasa	13-Oct-09	Shallow well	3.91503	33.29363	1076	Mud	Salty	27.9	7.2	0.800	122.00
HP-328	Nzega	Lusu	Mwaluzwilo	Bujinja	13-Oct-09	Deep well	4.0156	33.21824	1124	Clear	Salty	26.2	7.3	1.220	176.40
HP-329	Nzega	Lusu	Mwaluzwilo	Bujinja	13-Oct-09	Deep well	4.07496	33.23705	1141	Clear	Salty	26.1	6.8	2.010	236.40
HP-331	Nzega	Lusu	Mwaluzwilo	Mwaluzwilo	13-Oct-09	Shallow well	4.02301	33.21741	1122	Clear	Salty	27.8	6.9	0.800	50.00
HP-332	Nzega	Lusu	Mwaluzwilo	Mwaluzwilo	13-Oct-09	Shallow well	4.0289	33.21541	1131	Clear	Salty	26.6	6.1	0.400	41.40
HP-333	Nzega	Lusu	Mwaluzwilo	Mwamawe	13-Oct-09	Shallow well	4.00023	33.21098	1124	Clear	Salty	27.9	7.6	3.910	126.00
HP-334	Nzega	Lusu	Mwasala	Matinje	13-Oct-09	Deep well	3.99478	33.29709	1104	Clear	Salty	27.7	8.2	1.510	399.90
HP-338	Nzega	Lusu	Mwasala	Nhele	13-Oct-09	Deep well	4.02913	33.31923	1109	Clear	Salty	29.7	7.6	3.310	177.20
HP-339	Nzega	Magengati	Ilelamhina	Ilelamhina Juu	9-Nov-09	Shallow well	4.83145	33.0217	1274	Clear	Fresh	27.8	6.7	0.400	4.70
HP-342	Nzega	Magengati	Inagana	Shinyanga Road	9-Nov-09	Shallow well	4.77722	33.09288	1223	Clear	Fresh	28.5	7.5	0.400	6.30
HP-344	Nzega	Magengati	Kaloleni	Kagera	9-Nov-09	Shallow well	4.81023	33.01512	1255	Clear	Fresh	27.0	6.8	0.400	5.50
HP-346	Nzega	Magengati	Magengati	Kipendaroho	9-Nov-09	Shallow well	4.83164	33.05845	1266	Clear	Fresh	28.7	6.5	0.400	4.30
HP-351	Nzega	Mambali	Gulyambi	Gulyambi	20-Oct-09	Deep well	4.5274	32.77148	1193	Milky	Salty	27.1	6.0	0.800	56.90
HP-353	Nzega	Mambali	Kikonoka	Igalula	20-Oct-09	Deep well	4.56827	32.6692	1181	Clear	Clear	27.0	6.2	0.400	12.00
HP-354	Nzega	Mambali	Kikonoka	Igalula	20-Oct-09	Deep well	4.56294	32.66517	1179	Clear	Little salty	26.5	6.4	0.400	28.00
HP-356	Nzega	Mambali	Kikonoka	Kikonoka	20-Oct-09	Deep well	4.58605	32.7131	1165	Clear	No salty	26.0	6.0	ND	7.00
HP-357	Nzega	Mambali	Kikonoka	Njucha	20-Oct-09	Deep well	4.54233	32.64468	1184	Milky	Little salty	26.8	6.0	0.400	25.00
HP-358	Nzega	Mambali	Kikonoka	Shitage	20-Oct-09	Deep well	4.61171	32.61565	1193	Milky	Little salty	26.0	6.2	0.800	45.00
HP-359	Nzega	Mambali	Kikonoka	Upilya	20-Oct-09	Deep well	4.6215	32.76272	1151	Milky	Salty	27.1	7.0	1.370	250.00
HP-360	Nzega	Mambali	Kikonoka	Usekenule	20-Oct-09	Deep well	4.55975	32.69972	1177	Clear	No salty	26.8	6.9	ND	5.00
HP-361	Nzega	Mambali	Kikonoka	Usekenule	20-Oct-09	Deep well	4.56695	32.69665	1170	Clear	Little salty	27.0	6.5	0.400	12.50
HP-362	Nzega	Mambali	Mambali	Isilyaza	20-Oct-09	Deep well	4.56846	32.74292	1175	Clear	Fresh	26.0	6.0	0.400	30.10
HP-363	Nzega	Mambali	Mambali	Kazima	20-Oct-09	Deep well	4.53282	32.73008	1203	Clear	Fresh	27.1	6.5	ND	25.00
HP-364	Nzega	Mambali	Mambali	Kibuli	20-Oct-09	Deep well	4.50918	32.68549	1202	Clear	No salty	27.6	6.8	0.400	10.10
HP-366	Nzega	Mambali	Mambali	Mambali	20-Oct-09	Deep well	4.52678	32.68572	1209	Clear	No salty	27.0	6.0	ND	9.80
HP-367	Nzega	Mambali	Mambali	Ngwatu	20-Oct-09	Deep well	4.50476	32.72773	1205	Clear	No salty	26.0	6.0	ND	15.00
HP-368	Nzega	Mambali	Mambali	Ntanga	20-Oct-09	Deep well	4.49617	32.74475	1205	Clear	Fresh	27.6	7.0	0.400	15.00
HP-369	Nzega	Mambali	Mambali	Ulasa	20-Oct-09	Deep well	4.51239	32.63809	1214	Clear	Little salty	26.8	7.0	ND	4.00
HP-370	Nzega	Mambali	Mambali	Waja	20-Oct-09	Deep well	4.5475	32.71195	1196	Clear	Fresh	27.0	6.6	0.400	25.10
HP-371	Nzega	Mambali	Mbutu	Dumali	20-Oct-09	Deep well	4.36798	32.83153	1213	Clear	Fresh	27.2	6.0	0.400	24.00
HP-372	Nzega	Mambali	Mbutu	Idubanilo	20-Oct-09	Deep well	4.41503	32.8457	1204	Clear	No salty	26.5	6.4	ND	16.50
HP-373	Nzega	Mambali	Mbutu	Isanja	20-Oct-09	Shallow well	4.41567	32.77787	1214	Clear	Fresh	27.0	6.2	ND	14.00
HP-374	Nzega	Mambali	Mbutu	Isanja	20-Oct-09	Deep well	4.41658	32.79456	1230	Clear	No salty	27.1	6.5	0.400	29.00
HP-375	Nzega	Mambali	Mbutu	Kadoke	20-Oct-09	Shallow well	4.41129	32.81509	1228	Clear	No salty	27.0	5.9	ND	17.00
HP-376	Nzega	Mambali	Mbutu	Kindagili	20-Oct-09	Deep well	4.38812	32.82766	1220	Clear	No salty	26.9	7.0	0.400	21.00
HP-377	Nzega	Mambali	Mbutu	Mbutu Kati	20-Oct-09	Deep well	4.38187	32.78212	1208	Clear	No salty	27.5	7.2	0.400	21.00
HP-380	Nzega	Mambali	Mbutu	Mbutu Kati	20-Oct-09	Deep well	4.40103	32.79138	1226	Clear	Salty	26.9	7.0	1.430	320.50
HP-381	Nzega	Mambali	Mbutu	Nasa	20-Oct-09	Deep well	4.37186	32.8076	1218	Clear	No salty	27.4	6.8	ND	19.00

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Nzega District (4/6)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-382	Nzega	Mambali	Mwamalimu	Lugululwanzungu	20-Oct-09	Deep well	4.4969	32.82295	1182	Clear	Fresh	26.8	6.9	ND	16.00
HP-383	Nzega	Mambali	Mwino	Busaku	20-Oct-09	Deep well	4.46637	32.86909	1161	Clear	No salty	27.0	6.8	ND	21.00
HP-384	Nzega	Mambali	Mwino	Mwino Magharibi	20-Oct-09	Deep well	4.44096	32.85975	1184	Clear	Little salty	27.8	6.8	0.800	45.00
HP-385	Nzega	Mambali	Mwino	Mwino Mashariki	20-Oct-09	Deep well	4.43422	32.86777	1201	Clear	Fresh	26.5	6.4	0.400	25.00
HP-386	Nzega	Mambali	Nkindu	Iboja	20-Oct-09	Deep well	4.46065	32.82528	1201	Clear	No salty	26.8	6.8	0.400	25.00
HP-387	Nzega	Mambali	Nkindu	Iboja	20-Oct-09	Deep well	4.46236	32.82267	1194	Clear	Fresh	26.0	6.4	ND	12.40
HP-388	Nzega	Mambali	Nkindu	Maseki	20-Oct-09	Deep well	4.48309	32.81173	1200	Clear	Fresh	27.8	6.0	0.400	13.00
HP-389	Nzega	Mambali	Nkindu	Nkindu	20-Oct-09	Deep well	4.486	32.78711	1212	Clear	Fresh	27.4	7.1	0.400	16.80
HP-390	Nzega	Mambali	Shilago	Bakambwa	20-Oct-09	Deep well	4.44508	32.74767	1217	Clear	No salty	27.0	6.6	ND	15.00
HP-391	Nzega	Mambali	Shilago	Igalu	20-Oct-09	Deep well	4.41725	32.74864	1210	Clear	No salty	27.6	6.8	0.400	38.00
HP-392	Nzega	Mambali	Shilago	Kasomela	20-Oct-09	Deep well	4.4302	32.77894	1221	Clear	Fresh	27.8	6.2	ND	16.00
HP-393	Nzega	Mambali	Shilago	Shilago	20-Oct-09	Deep well	4.46065	32.76065	1223	Clear	No salty	26.9	6.4	ND	11.50
HP-394	Nzega	Mambali	Shilago	Shilago	20-Oct-09	Deep well	4.43497	32.76075	1223	Clear	No salty	26.1	6.8	0.400	40.00
HP-397	Nzega	Mbogwe	Mbogwe	Mbogwe Kati	14-Oct-09	Shallow well	4.15327	33.26395	1188	Clear	Clear	29.6	6.6	0.400	5.20
HP-398	Nzega	Mbogwe	Mbogwe	Mbogwe Kusini	14-Oct-09	Shallow well	4.163	33.26389	1201	Clear	Clear	29.7	6.8	0.400	6.70
HP-399	Nzega	Mbogwe	Mbogwe	Mwakabilu	14-Oct-09	Shallow well	4.17821	33.25905	1203	Clear	Clear	28.2	6.7	0.400	6.60
HP-401	Nzega	Mbogwe	Mbogwe	Mwanubiila	14-Oct-09	Deep well	4.14495	33.26333	1178	Clear	Salty	29.5	7.8	6.110	95.00
HP-403	Nzega	Mbogwe	Nhobola	Mwashina	14-Oct-09	Deep well	4.09664	33.24997	1143	Clear	Salty	28.4	7.7	1.590	165.90
HP-405	Nzega	Miguwa	Idudumo	Makambini	15-Oct-09	Deep well	4.36862	33.36954	1197	Clear	Salty	28.0	6.7	0.800	70.60
HP-406	Nzega	Miguwa	Iduguta	Iduguta 'A'	15-Oct-09	Deep well	4.22142	33.34698	1196	Clear	Salty	28.8	7.2	6.210	136.20
HP-407	Nzega	Miguwa	Iduguta	Iduguta 'A'	15-Oct-09	Deep well	4.21961	33.34908	1198	Clear	Salty	28.4	7.7	4.710	165.90
HP-415	Nzega	Miguwa	Kitangili	Budushi	15-Oct-09	Shallow well	4.21101	33.24337	1200	Milky	Clear	28.2	6.8	0.400	10.20
HP-426	Nzega	Miguwa	Miguwa	Isambalilo	15-Oct-09	Deep well	4.18172	33.31513	1205	Clear	Salty	28.5	7.2	3.910	54.30
HP-429	Nzega	Miguwa	Miguwa	Miguwa	15-Oct-09	Shallow well	4.20826	33.30499	1214	Milky	Clear	28.6	7.3	0.400	6.30
HP-430	Nzega	Miguwa	Miguwa	Ngong'Ho	15-Oct-09	Shallow well	4.20791	33.28542	1221	Clear	Clear	28.7	6.3	0.400	6.20
HP-447	Nzega	Mizibaziba	Kipungulu	Kisangilizi	7-Nov-09	Deep well	4.51759	33.36282	1234	Milky	Fresh	26.8	6.5	0.800	8.30
HP-452	Nzega	Mogwa	Mogwa	Ifuso	29-Oct-09	Shallow well	4.31121	32.85704	1217	Clear	Fresh	28.8	6.4	0.400	4.40
HP-455	Nzega	Mogwa	Usalala	Kigangama	29-Oct-09	Shallow well	4.27135	32.81858	1195	Clear	Fresh	27.9	5.7	0.400	6.30
HP-457	Nzega	Mogwa	Usalala	King'Wangoko	29-Oct-09	Shallow well	4.26003	32.7997	1195	Clear	Salty	27.0	6.2	1.550	56.00
HP-459	Nzega	Mogwa	Usalala	Nyanhuli	29-Oct-09	Shallow well	4.24981	32.81823	1181	Clear	Fresh	27.9	6.5	0.400	4.40
HP-461	Nzega	Muhugi	Nhumbili	Imenya	25-Oct-09	Shallow well	4.40241	33.21474	1227	Clear	Clear	28.2	5.6	0.400	6.00
HP-462	Nzega	Muhugi	Nhumbili	Nhumbili	25-Oct-09	Shallow well	4.37567	33.20762	1226	Clear	Clear	28.8	5.7	0.400	6.20
HP-463	Nzega	Muhugi	Ubinga	Ilungu	25-Oct-09	Shallow well	4.45364	33.30788	1224	Clear	Salty	27.8	6.8	1.450	63.40
HP-467	Nzega	Mwakashanhala	Ibelafinga	Chibiso	9-Nov-09	Deep well	4.63053	33.02679	1218	Clear	Fresh	27.0	7.6	0.400	4.60
HP-470	Nzega	Mwakashanhala	Kigandu	Kalangale	9-Nov-09	Deep well	4.69428	33.00216	1189	Clear	Fresh	26.5	7.2	0.400	7.10
HP-471	Nzega	Mwakashanhala	Kigandu	Kalumwa	9-Nov-09	Deep well	4.66067	32.98905	1189	Clear	Fresh	26.4	6.5	0.400	6.30
HP-472	Nzega	Mwakashanhala	Kigandu	Kalumwa	9-Nov-09	Deep well	4.67562	32.99071	1195	Clear	Fresh	27.0	6.9	ND	5.20
HP-473	Nzega	Mwakashanhala	Kigandu	Kigandu Centre	9-Nov-09	Deep well	4.66475	33.01737	1214	Clear	Fresh	27.6	6.3	0.400	6.40
HP-475	Nzega	Mwakashanhala	Mwakashanhala	Iponyanundo	10-Nov-09	Deep well	4.67191	33.13599	1223	Clear	Fresh	26.0	7.6	0.400	6.60
HP-476	Nzega	Mwakashanhala	Mwakashanhala	Isagenhe	10-Nov-09	Deep well	4.68672	33.11259	1216	Clear	Fresh	26.8	6.9	0.400	5.70
HP-477	Nzega	Mwakashanhala	Mwakashanhala	Kiloleli	10-Nov-09	Deep well	4.63579	33.05023	1211	Clear	Fresh	27.3	7.9	0.400	6.30
HP-478	Nzega	Mwakashanhala	Mwakashanhala	Miguwa	10-Nov-09	Deep well	4.65872	33.0893	1221	Clear	Fresh	27.0	6.4	0.800	6.20
HP-479	Nzega	Mwakashanhala	Mwakashanhala	Mwajiluli	10-Nov-09	Deep well	4.62153	33.06649	1206	Clear	Fresh	26.9	6.0	0.400	5.40
HP-481	Nzega	Mwakashanhala	Mwakashanhala	Mwakashanhala	10-Nov-09	Deep well	4.64274	33.06774	1220	Clear	Fresh	26.8	6.4	0.400	4.40
HP-482	Nzega	Mwakashanhala	Mwakashanhala	Mwakashanhala	10-Nov-09	Deep well	4.65174	33.08013	1229	Clear	Fresh	26.4	5.9	0.400	6.60
HP-483	Nzega	Mwakashanhala	Mwakashanhala	Uchosa	10-Nov-09	Deep well	4.63812	33.09684	1216	Clear	Fresh	28.2	6.8	0.400	7.20
HP-484	Nzega	Mwakashanhala	Mwakashanhala	Uyogu	10-Nov-09	Deep well	4.65466	33.10098	1221	Clear	Fresh	26.6	7.2	ND	4.50
HP-487	Nzega	Mwakashanhala	Ugembe Ii	Ibakuli	9-Nov-09	Deep well	4.59249	32.9798	1193	Clear	Fresh	26.0	7.2	0.400	7.20
HP-488	Nzega	Mwakashanhala	Ugembe Ii	Ishita'B'	9-Nov-09	Deep well	4.58653	32.96507	1190	Clear	Fresh	27.0	7.0	0.400	6.20

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Nzega District (5/6)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-491	Nzega	Mwakashanhala	Ugembe Ii	Misese	9-Nov-09	Deep well	4.58528	32.9757	1191	Clear	Fresh	27.0	6.0	ND	5.70
HP-494	Nzega	Mwakashanhala	Ugembe Ii	Ugembe Ii Centre	9-Nov-09	Deep well	4.59264	32.97118	1188	Clear	Fresh	26.0	6.0	0.400	4.50
HP-495	Nzega	Mwamala	Buhondo	Buhondo	28-Oct-09	Shallow well	3.97621	32.93909	1150	Yellowish	Fresh	27.0	6.4	ND	9.80
HP-496	Nzega	Mwamala	Buhondo	Buhondo	28-Oct-09	Shallow well	3.97584	32.94166	1147	Milky	Fresh	26.9	6.5	ND	9.20
HP-497	Nzega	Mwamala	Buhondo	Mwasato	28-Oct-09	Shallow well	3.98857	32.94908	1137	Clear	Fresh	26.8	6.0	ND	11.20
HP-501	Nzega	Mwamala	Chaming'Hwa	Chanemba	28-Oct-09	Shallow well	4.09891	32.93407	1167	Clear	Fresh	27.1	6.4	ND	19.80
HP-506	Nzega	Mwamala	Kishili	Kishili	28-Oct-09	Shallow well	4.13518	32.94939	1195	Clear	Fresh	27.1	6.1	ND	12.90
HP-508	Nzega	Mwamala	Kishili	Kitongo	28-Oct-09	Shallow well	4.12169	32.9396	1184	Milky	Fresh	27.4	5.9	ND	21.00
HP-510	Nzega	Mwamala	Mahene	Igabanilo	28-Oct-09	Shallow well	4.08631	32.90604	1170	Clear	Fresh	27.9	6.1	ND	25.00
HP-511	Nzega	Mwamala	Mwamala	Bulyangoko	28-Oct-09	Shallow well	4.06931	32.95961	1144	Milky	Fresh	27.1	6.1	ND	12.80
HP-515	Nzega	Mwangoye	Chamipulu	Chamipulu	6-Nov-09	Deep well	4.06125	33.07178	1148	Milky	Salty	27.0	4.9	0.800	192.20
HP-523	Nzega	Mwangoye	Igalula	Igalula	6-Nov-09	Deep well	4.09711	33.09311	1146	Clear	Salty	27.2	4.9	0.800	192.10
HP-527	Nzega	Mwangoye	Kaselya	Kabanga	6-Nov-09	Shallow well	4.05389	33.08259	1142	Milky	Salty	26.9	4.5	0.800	192.20
HP-529	Nzega	Mwangoye	Kaselya	Nyangabo	6-Nov-09	Shallow well	4.06538	33.08116	1146	Milky	Fresh	27.0	4.6	ND	15.80
HP-531	Nzega	Mwangoye	Mwaguguli	Mwakisenga	6-Nov-09	Deep well	4.05724	33.02845	1138	Milky	Salty	27.0	6.0	0.800	210.00
HP-534	Nzega	Mwangoye	Sagida	Ibale	6-Nov-09	Shallow well	4.08738	33.03823	1158	Milky	Fresh	28.0	6.0	ND	9.20
HP-536	Nzega	Mwangoye	Sagida	Isanzu	6-Nov-09	Shallow well	4.09226	33.02804	1153	Milky	Fresh	27.8	5.4	ND	9.20
HP-537	Nzega	Mwangoye	Sagida	Minala	6-Nov-09	Shallow well	4.072	33.03464	1145	Milky	Fresh	28.0	6.0	ND	11.00
HP-538	Nzega	Mwangoye	Sagida	Ng'Wakulogwa	6-Nov-09	Shallow well	4.10984	33.04189	1169	Milky	Fresh	27.0	5.0	ND	8.10
HP-539	Nzega	Nata	Kabale	Busigili	12-Oct-09	Deep well	3.96852	33.1721	1094	Clear	Salty	27.0	5.8	0.800	42.00
HP-540	Nzega	Nata	Kabale	Itonjamandi	12-Oct-09	Deep well	4.01582	33.16574	1121	Clear	Fresh	27.4	5.9	0.400	42.00
HP-542	Nzega	Nata	Kabale	Kabale	12-Oct-09	Deep well	4.0169	33.18295	1132	Clear	Fresh	27.1	6.3	0.800	40.00
HP-543	Nzega	Nata	Kabale	Kabale	12-Oct-09	Deep well	4.01172	33.19242	1126	Clear	Salty	26.2	5.8	0.800	42.00
HP-545	Nzega	Nata	Kabale	Kasela	12-Oct-09	Deep well	4.05221	33.16095	1132	Clear	Fresh	26.5	6.3	0.800	48.30
HP-546	Nzega	Nata	Kabale	Lubaga	12-Oct-09	Deep well	3.96361	33.14195	1103	Clear	Salty	27.4	6.3	0.800	39.20
HP-547	Nzega	Nata	Kabale	Mwagundu	12-Oct-09	Deep well	4.02381	33.17314	1125	Clear	Fresh	27.2	6.2	0.800	46.00
HP-548	Nzega	Nata	Kanolo	Busiya	12-Oct-09	Shallow well	3.96281	33.13461	1104	Clear	Fresh	26.4	5.9	0.400	50.00
HP-549	Nzega	Nata	Kanolo	Kanolo	12-Oct-09	Shallow well	3.98252	33.13026	1110	Clear	Fresh	26.0	5.8	0.800	49.20
HP-550	Nzega	Nata	Kanolo	Seke	12-Oct-09	Deep well	3.99754	33.17268	1107	Clear	Fresh	26.4	6.2	0.400	49.50
HP-551	Nzega	Nata	Kanolo	Seke	12-Oct-09	Deep well	3.97024	33.15418	1102	Clear	Fresh	26.2	6.3	ND	48.80
HP-558	Nzega	Ndala	Uhemeli	Uhemeli Kati	26-Oct-09	Shallow well	4.77846	33.23186	1233	Clear	Salty	28.7	6.3	1.410	122.00
HP-562	Nzega	Nkiniziwa	Nkiniziwa	Nkiniziwa 'A'	25-Oct-09	Deep well	4.59166	33.16132	1230	Milky	Clear	28.0	5.7	0.400	6.40
HP-563	Nzega	Nkiniziwa	Nkiniziwa	Nkiniziwa 'B'	25-Oct-09	Deep well	4.57544	33.15707	1215	Milky	Clear	28.8	6.3	0.400	7.00
HP-565	Nzega	Nzega Mjini	Nzega Mjini	Ipilili 'A'	11-Nov-09	Deep well	4.22202	33.18679	1226	Clear	Fresh	26.0	6.9	0.400	6.40
HP-566	Nzega	Nzega Mjini	Nzega Mjini	Kachoma	11-Nov-09	Deep well	4.22204	33.18955	1226	Clear	Salty	26.3	7.2	0.800	56.00
HP-567	Nzega	Nzega Mjini	Nzega Mjini	Kachoma	11-Nov-09	Deep well	4.22285	33.19149	1224	Clear	Tasteless	26.0	6.9	0.800	54.00
HP-568	Nzega	Nzega Mjini	Nzega Mjini	Majengo	11-Nov-09	Deep well	4.21608	33.17864	1242	Clear	Fresh	27.0	6.3	0.400	4.50
HP-569	Nzega	Nzega Mjini	Nzega Mjini	Majengo	11-Nov-09	Deep well	4.21704	33.18139	1235	Clear	Tasteless	26.3	7.0	0.400	5.60
HP-572	Nzega	Nzega Ndogo	Undomo	Ndomo Cheyo	12-Oct-09	Deep well	4.14331	33.21764	1177	Clear	Salty	26.2	6.2	0.800	50.00
HP-575	Nzega	Puge	Busondo	Busondo Mashariki	26-Oct-09	Shallow well	4.6634	33.19199	1237	Clear	Clear	28.7	5.3	0.400	6.20
HP-577	Nzega	Puge	Busondo	Busondo Mashariki	26-Oct-09	Shallow well	4.66004	33.18281	1236	Clear	Clear	28.2	6.4	0.400	6.30
HP-581	Nzega	Puge	Busondo	Mwapu	26-Oct-09	Shallow well	4.68497	33.1809	1254	Clear	Clear	28.7	5.9	0.400	6.20
HP-587	Nzega	Puge	Upungu	Upungu Magharibi	26-Oct-09	Shallow well	4.72777	33.16591	1240	Clear	Clear	28.7	6.3	0.400	6.80
HP-588	Nzega	Puge	Upungu	Upungu Mashariki	26-Oct-09	Shallow well	4.72825	33.16846	1243	Clear	Clear	28.0	5.9	ND	6.10
HP-596	Nzega	Shigamba	Kagongwa	Ngukulu	22-Oct-09	Shallow well	4.1959	33.08941	1196	Clear	Fresh	28.3	6.8	0.400	6.30
HP-605	Nzega	Tongi	Mangashini	Mwalugusha	7-Nov-09	Shallow well	4.63956	33.33725	1224	Milky	Fresh	26.0	7.5	0.400	6.20
HP-607	Nzega	Tongi	Ndekeli	Tongi 'A'	7-Nov-09	Shallow well	4.66367	33.29682	1236	Milky	Fresh	26.4	7.0	0.400	5.20
HP-609	Nzega	Tongi	Ndekeli	Tongi 'B'	7-Nov-09	Shallow well	4.65392	33.28687	1247	Milky	Fresh	26.0	7.4	0.400	6.30

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Nzega District (6/6)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-613	Nzega	Tongi	Tumbi	Tumbi Kati	7-Nov-09	Deep well	4.60377	33.29574	1241	Milky	Fresh	27.0	6.5	0.400	4.50
HP-615	Nzega	Uduka	Kabanga	Kabanga	31-Oct-09	Shallow well	4.18064	32.92673	1198	Clear	salty	27.0	4.9	0.800	129.00
HP-616	Nzega	Uduka	Kabanga	Kabanga	31-Oct-09	Shallow well	4.17793	32.92608	1197	Clear	Fresh	27.1	5.4	0.400	32.00
HP-626	Nzega	Uduka	Kabanga	Masindi 'B'	31-Oct-09	Shallow well	4.19651	32.94112	1189	Clear	Fresh	27.6	5.4	0.400	26.00
HP-628	Nzega	Uduka	Uduka	Itanana	31-Oct-09	Shallow well	4.17733	32.9095	1212	Clear	Fresh	27.2	6.0	ND	12.00
HP-630	Nzega	Uduka	Uduka	Itanana	31-Oct-09	Shallow well	4.16447	32.90472	1214	Clear	Fresh	27.9	6.5	ND	9.80
HP-636	Nzega	Uduka	Uduka	Itanana	31-Oct-09	Shallow well	4.18175	32.89256	1218	Milky	Fresh	27.0	7.0	ND	13.00
HP-639	Nzega	Uduka	Usongwanhala	Kazima	31-Oct-09	Shallow well	4.18423	32.86884	1186	Clear	Fresh	27.8	5.8	ND	19.10
HP-641	Nzega	Uduka	Usongwanhala	Kili	31-Oct-09	Shallow well	4.20047	32.88475	1195	Clear	Fresh	26.2	5.4	ND	15.10
HP-644	Nzega	Uduka	Usongwanhala	Usongwanhala	31-Oct-09	Shallow well	4.20634	32.87599	1187	Clear	Salty	27.0	6.1	ND	250.00
HP-661	Nzega	Wela	Gulumuni	Lindyati	14-Oct-09	Shallow well	4.17004	33.35041	1164	Milky	Clear	29.2	6.7	ND	11.40
HP-662	Nzega	Wela	Gulumuni	Lindyati	14-Oct-09	Shallow well	4.17036	33.35089	1163	Milky	Clear	29.3	6.5	ND	10.00
HP-664	Nzega	Wela	Malilita	Isadukilo	14-Oct-09	Shallow well	4.1076	33.32036	1163	Clear	Salty	29.4	6.5	0.800	50.00
HP-665	Nzega	Wela	Malilita	Mwatenge 'A'	14-Oct-09	Shallow well	4.10429	33.32673	1156	Clear	Salty	29.2	6.3	0.400	30.00
HP-667	Nzega	Wela	Malilita	Mwatenge 'B'	14-Oct-09	Shallow well	4.10795	33.31743	1165	Clear	Salty	29.7	6.7	0.800	50.20
HP-670	Nzega	Wela	Wela	Igombwe	14-Oct-09	Deep well	4.1546	33.29237	1181	Clear	Salty	29.6	7.3	1.170	155.80
HP-672	Nzega	Wela	Wela	Wela Kati	14-Oct-09	Deep well	4.15594	33.30083	1191	Clear	Salty	29.4	6.8	0.800	50.30

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Sikonge District (1/2)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-673	Sikonge	Chabutwa	Chabutwa	Chabutwa	7-Nov-09	Shallow well	5.6792	32.74782	1138	Milky	Tasteless	25.6	5.4	0.037	8.53
HP-674	Sikonge	Chabutwa	Chabutwa	Chabutwa	7-Nov-09	Shallow well	5.68866	32.75495	1134	Clear	Tasteless	25.7	4.5	0.031	17.39
HP-675	Sikonge	Chabutwa	Chabutwa	Chabutwa	7-Nov-09	Shallow well	5.69371	32.75464	1133	Milky	Tasteless	25.6	6.2	0.176	8.55
HP-676	Sikonge	Chabutwa	Chabutwa	Chabutwa	7-Nov-09	Deep well	5.69301	32.75059	1134	Clear	Salty	26.2	6.6	0.230	51.80
HP-677	Sikonge	Chabutwa	Chabutwa	Chabutwa	7-Nov-09	Shallow well	5.6912	32.74944	1134	Clear	Salty	25.2	4.4	0.030	34.60
HP-678	Sikonge	Chabutwa	Chabutwa	Kenki	7-Nov-09	Shallow well	5.69226	32.72356	1123	Milky	Tasteless	25.3	5.8	0.045	4.59
HP-684	Sikonge	Chabutwa	Kikungu	Kikungu Kusini	7-Nov-09	Shallow well	5.71747	32.76867	1131	Clear	Tasteless	27.7	5.8	0.062	7.85
HP-691	Sikonge	Chabutwa	Mitwigu	Mitwigu	7-Nov-09	Shallow well	5.73695	32.69795	1113	Clear	Tasteless	26.0	5.6	0.049	5.09
HP-692	Sikonge	Igigwa	Igigwa	Barazani	5-Nov-09	Deep well	5.37894	32.79102	1200	Clear	Salty	27.2	6.4	0.220	12.70
HP-694	Sikonge	Igigwa	Igigwa	Nyakahunga	5-Nov-09	Deep well	5.41805	32.78496	1236	Milky	Salty	24.7	6.5	0.090	12.10
HP-695	Sikonge	Igigwa	Igigwa	Wankolongo	5-Nov-09	Deep well	5.3508	32.7782	1167	Clear	Salty	27.3	6.2	0.159	60.30
HP-696	Sikonge	Igigwa	Lufwisi	Lufwisi	5-Nov-09	Shallow well	5.5167	32.80321	1167	Milky	Testless	26.4	6.7	0.150	26.40
HP-698	Sikonge	Ipole	Idekamiso	Idekamiso	10-Nov-09	Shallow well	5.93668	32.77147	1128	Clear	Tasteless	26.0	5.3	0.066	5.83
HP-700	Sikonge	Ipole	Ipole	Ipole Mashariki	7-Nov-09	Shallow well	5.78673	32.73599	1148	Clear	Tasteless	25.5	5.9	0.350	13.90
HP-701	Sikonge	Ipole	Msuva	Msuva	10-Nov-09	Shallow well	5.83813	32.74699	1111	Clear	Salty	25.6	5.7	0.178	14.38
HP-702	Sikonge	Ipole	Udongo	Udongo Kahakazini	7-Nov-09	Shallow well	5.76442	32.73519	1125	Clear	Tasteless	26.3	5.3	0.080	5.22
HP-703	Sikonge	Ipole	Udongo	Udongo Mashariki	7-Nov-09	Shallow well	5.76645	32.73895	1124	Clear	Tasteless	25.8	4.7	0.024	7.83
HP-704	Sikonge	Kilolelì	Mtakuja	Magunga	10-Nov-09	Shallow well	5.89091	32.88958	1141	Milky	Salty	27.3	6.1	0.090	16.09
HP-705	Sikonge	Kilolelì	Mtakuja	Mtakuja	10-Nov-09	Shallow well	5.91202	32.92888	1133	Milky	Tasteless	29.9	5.9	0.045	8.05
HP-706	Sikonge	Kilolelì	Mtakuja	Mtakuja	10-Nov-09	Shallow well	5.91225	32.91544	1135	Clear	Salty	27.4	5.6	0.067	12.81
HP-707	Sikonge	Kilolelì	Mtakuja	Songambele	10-Nov-09	Shallow well	5.90014	32.92755	1135	Clear	Slightly Salty	28.3	5.5	0.070	13.78
HP-708	Sikonge	Kilolelì	Mtakuja	Tulieni	10-Nov-09	Shallow well	5.9083	32.95834	1135	Clear	Salty	29.0	5.4	0.189	8.03
HP-713	Sikonge	Kiloli	Mwitiko	Mwitiko	8-Nov-09	Shallow well	6.83329	33.36206	1210	Clear	Salty	23.6	6.7	0.038	8.18
HP-714	Sikonge	Kiloli	Mwitiko	Mwitiko	8-Nov-09	Shallow well	6.83342	33.3622	1208	Clear	Salty	22.9	6.9	0.070	5.77
HP-716	Sikonge	Kipanga	Lembeli	Lembeli	10-Nov-09	Deep well	5.83857	32.90658	1149	Clear	Tasteless	27.8	7.1	0.410	55.50
HP-717	Sikonge	Kipanga	Lembeli	Lembeli	10-Nov-09	Shallow well	5.8492	32.91786	1153	Clear	Tasteless	25.9	5.0	0.022	8.09
HP-720	Sikonge	Kipanga	Ukondamoyo	Ukondomoyo	10-Nov-09	Deep well	5.80052	32.88276	1147	Clear	Salty	27.7	6.6	0.310	89.90
HP-721	Sikonge	Kipanga	Urafiki	Uswahilini	10-Nov-09	Shallow well	5.70104	32.90481	1168	Clear	Salty	26.3	6.8	0.350	23.80
HP-722	Sikonge	Kipanga	Usunga	Kilombele	10-Nov-09	Shallow well	5.70752	32.94578	1188	Clear	Salty	27.4	6.9	0.151	36.60
HP-723	Sikonge	Kipanga	Usunga	Makumbusho	10-Nov-09	Shallow well	5.70587	32.93696	1186	Clear	Salty	25.9	7.3	0.300	67.70
HP-724	Sikonge	Kipili	Kilumbi	Mkola No. 4	8-Nov-09	Deep well	6.29622	33.84735	1406	Clear	Salty	25.7	6.7	0.193	78.10
HP-726	Sikonge	Kipili	Kilumbi	Mkola No. 4	8-Nov-09	Shallow well	6.29771	33.84673	1398	Milky	Salty	26.0	6.9	0.080	15.50
HP-732	Sikonge	Kipili	Zugimlole	Chang'ombe Na.5	8-Nov-09	Shallow well	6.07116	33.92957	1518	Clear	Tasteless	23.9	5.7	0.072	8.25
HP-733	Sikonge	Kipili	Zugimlole	Mkwese	8-Nov-09	Shallow well	6.04757	33.91832	1542	Clear	Tasteless	23.0	4.6	0.021	10.82
HP-734	Sikonge	Kipili	Zugimlole	Tupendane	8-Nov-09	Shallow well	6.07854	33.9077	1504	Clear	Tasteless	24.0	5.6	0.044	6.77
HP-735	Sikonge	Kitunda	Mgambo	Kamata Na.5	9-Nov-09	Shallow well	6.88206	33.25557	1210	Clear	Salty	24.5	5.6	0.041	11.50
HP-738	Sikonge	Kitunda	Mgambo	Lukula	9-Nov-09	Shallow well	6.84566	33.25003	1176	Milky	Salty	24.8	6.0	0.024	14.40
HP-742	Sikonge	Kitunda	Mgambo	Lukula	9-Nov-09	Shallow well	6.8336	33.2515	1181	Clear	Tasteless	26.0	5.9	0.024	10.66
HP-746	Sikonge	Kitunda	Mwenge	Mission	9-Nov-09	Shallow well	6.80405	33.20034	1186	Milky	Salty	27.0	6.9	0.170	35.00
HP-747	Sikonge	Kitunda	Mwenge	Mkola	9-Nov-09	Shallow well	6.84941	33.20837	1204	Clear	Salty	26.7	6.2	0.075	15.55
HP-748	Sikonge	Kitunda	Mwenge	Mkola	9-Nov-09	Shallow well	6.84122	33.21316	1190	Clear	Salty	25.7	6.6	0.143	31.50
HP-749	Sikonge	Pangale	Ibaya	Ibaya	5-Nov-09	Shallow well	5.3158	32.69873	1154	Milky	Salty	24.7	7.0	0.400	21.20
HP-750	Sikonge	Pangale	Mpombwe	Mpombwe	4-Nov-09	Shallow well	5.35745	32.69572	1152	Clear	Tasteless	27.0	5.5	0.052	10.36
HP-751	Sikonge	Pangale	Pangale	Loge	5-Nov-09	Shallow well	5.30291	32.73691	1146	Clear	Tasteless	27.0	6.3	0.220	18.83
HP-752	Sikonge	Pangale	Pangale	Pangale	5-Nov-09	Shallow well	5.28629	32.71206	1151	Clear	Tasteless	26.3	6.6	0.030	8.13
HP-753	Sikonge	Pangale	Pangale	Pangale	5-Nov-09	Shallow well	5.27302	32.71783	1142	Clear	Tasteless	27.0	6.6	0.980	60.30
HP-755	Sikonge	Pangale	Usesula	Usesula	5-Nov-09	Shallow well	5.24707	32.67999	1151	Clear	Salty	26.8	6.2	0.080	34.40
HP-756	Sikonge	Sikonge	Kisanga	Chang'ombe	5-Nov-09	Deep well	5.55944	32.81601	1176	Clear	Salty	27.7	6.6	0.360	88.30
HP-757	Sikonge	Sikonge	Kisanga	Kisanga Kati	5-Nov-09	Deep well	5.55908	32.84062	1216	Clear	Testless	26.6	6.6	0.185	16.40

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Sikonge District (2/2)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-758	Sikonge	Sikonge	Mkolye	Isunda	4-Nov-09	Shallow well	5.54793	32.67338	1136	Clear	Tasteless	27.8	6.0	0.050	27.60
HP-759	Sikonge	Sikonge	Mkolye	Itunda	4-Nov-09	Shallow well	5.5628	32.69639	1147	Clear	Tasteless	27.4	5.5	0.030	11.50
HP-761	Sikonge	Sikonge	Mkolye	Ng'olohano	4-Nov-09	Shallow well	5.55532	32.65146	1119	Clear	Tasteless	27.8	5.6	0.058	6.30
HP-762	Sikonge	Sikonge	Mlogolo	Mlogolo	4-Nov-09	Shallow well	5.58729	32.72963	1150	Clear	Salty	26.9	6.4	0.250	27.50
HP-763	Sikonge	Sikonge	Mlogolo	Mlogolo	4-Nov-09	Shallow well	5.58403	32.72175	1150	Clear	Salty	26.9	6.4	0.240	25.50
HP-765	Sikonge	Sikonge	Sikonge	Iyombakuzova	3-Nov-09	Shallow well	5.6437	32.78474	1138	Milky	Tasteless	27.5	5.4	0.061	11.65
HP-766	Sikonge	Sikonge	Sikonge	Iyombakuzova	3-Nov-09	Shallow well	5.64342	32.77489	1140	Milky	Tasteless	29.6	6.2	0.220	6.34
HP-767	Sikonge	Sikonge	Sikonge	Kangoge	3-Nov-09	Shallow well	5.62874	32.72774	1117	Milky	Salty	25.3	5.9	0.220	14.54
HP-768	Sikonge	Sikonge	Sikonge	Kangoge	3-Nov-09	Shallow well	5.63173	32.72877	1117	Clear	Tasteless	25.1	7.6	0.077	5.74
HP-771	Sikonge	Sikonge	Sikonge	Mbirani	3-Nov-09	Shallow well	5.60816	32.75003	1161	Clear	Salty	26.2	6.5	0.250	46.20
HP-772	Sikonge	Sikonge	Sikonge	Mbirani	3-Nov-09	Shallow well	5.61491	32.75217	1151	Clear	Salty	24.2	6.2	0.156	47.80
HP-775	Sikonge	Sikonge	Sikonge	Ukanga	3-Nov-09	Shallow well	5.61347	32.73171	1134	Clear	Salty	25.0	6.1	0.320	20.10
HP-776	Sikonge	Sikonge	Sikonge	Ukanga	3-Nov-09	Shallow well	5.61133	32.70323	1120	Clear	Tasteless	25.3	6.0	0.043	8.76
HP-779	Sikonge	Sikonge	Sikonge	Usega	3-Nov-09	Shallow well	5.6306	32.74751	1130	Clear	Salty	24.4	6.9	0.420	65.90
HP-781	Sikonge	Sikonge	Sikonge	Usupilo A	3-Nov-09	Shallow well	5.61808	32.76138	1148	Clear	Tasteless	27.6	5.9	0.063	13.53
HP-782	Sikonge	Sikonge	Sikonge	Usupilo B	3-Nov-09	Shallow well	5.63034	32.75115	1146	Clear	Tasteless	26.0	6.1	0.159	49.50
HP-783	Sikonge	Tutuo	Mitowo	Kakulungu/Timkeni	4-Nov-09	Shallow well	5.48874	32.60207	1114	Clear	Salty	25.5	5.5	0.140	6.60
HP-787	Sikonge	Tutuo	Mole	Kiloleni A	4-Nov-09	Shallow well	5.45022	32.62904	1139	Clear	Tasteless	27.4	5.9	0.018	11.66
HP-788	Sikonge	Tutuo	Mole	Kiloleni A	4-Nov-09	Shallow well	5.44948	32.62112	1143	Clear	Tasteless	25.8	5.2	0.040	7.20
HP-790	Sikonge	Tutuo	Mole	Utyatya	4-Nov-09	Shallow well	5.45127	32.61186	1143	Clear	Tasteless	26.5	5.2	0.028	6.30
HP-791	Sikonge	Tutuo	Muungano	Kabanga A	4-Nov-09	Shallow well	5.47459	32.66139	1136	Clear	Tasteless	27.4	5.7	0.067	6.60
HP-793	Sikonge	Tutuo	Tutuo	Lehani	4-Nov-09	Shallow well	5.50894	32.6911	1134	Clear	Tasteless	27.7	6.1	0.070	5.86
HP-796	Sikonge	Tutuo	Tutuo	Madukani	4-Nov-09	Shallow well	5.48274	32.67671	1142	Clear	Tasteless	28.9	6.6	0.090	10.60
HP-799	Sikonge	Tutuo	Tutuo	Tutuo Shuleni	4-Nov-09	Shallow well	5.49292	32.67781	1134	Milky	Tasteless	28.7	6.3	0.340	20.00

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Tabora Rural District (1/3)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-800	Tabora Rural	Bukumbi	Ishihimulwa	Ishihimulwa	13-Oct-09	Deep well	4.39848	32.51017	1187	Clear	Salty	26.6	6.5	0.400	32.50
HP-803	Tabora Rural	Goweko	Nsololo	Kanala	14-Oct-09	Shallow well	5.35232	33.13509	1181	Clear	Salty	26.0	5.6	0.400	21.10
HP-804	Tabora Rural	Goweko	Nsololo	Kanala	14-Oct-09	Shallow well	5.34255	33.14063	1059	Clear	Tasteless	26.2	5.7	0.380	3.92
HP-805	Tabora Rural	Goweko	Nsololo	Kanala	14-Oct-09	Deep well	5.37124	33.12229	1191	Milky	Tasteless	26.8	5.8	0.700	40.40
HP-806	Tabora Rural	Goweko	Nsololo	Ngulumwa	14-Oct-09	Shallow well	5.40457	33.14313	1111	Clear	Salty	28.4	4.9	0.420	54.60
HP-811	Tabora Rural	Ibiri	Ibiri	Kategile	22-Oct-09	Shallow well	4.92688	32.59551	1125	Clear	Tasteless	28.3	6.4	0.200	20.80
HP-812	Tabora Rural	Ibiri	Ibiri	Kategile	22-Oct-09	Shallow well	4.92748	32.60189	1126	Clear	Salty	25.9	6.6	0.500	27.90
HP-814	Tabora Rural	Ibiri	Ibiri	Kategile	22-Oct-09	Shallow well	4.91575	32.59749	1145	Clear	Salty	26.5	6.8	1.900	6.40
HP-816	Tabora Rural	Ibiri	Ibiri	Makunguwe	22-Oct-09	Shallow well	4.89311	32.59374	1131	Milky	Tasteless	29.7	5.5	0.210	2.00
HP-818	Tabora Rural	Ibiri	Ibiri	Mpungu	22-Oct-09	Shallow well	4.91426	32.56816	1173	Clear	Tasteless	26.1	5.6	0.147	113.20
HP-820	Tabora Rural	Ibiri	Ibiri	Mpungu	22-Oct-09	Shallow well	4.91308	32.57832	1175	Clear	Tasteless	28.0	7.0	0.900	96.30
HP-821	Tabora Rural	Ibiri	Ibiri	Mpungu	22-Oct-09	Shallow well	4.91646	32.59125	1186	Milky	Tasteless	26.6	6.5	0.350	55.00
HP-823	Tabora Rural	Ibiri	Inonelwa	Migombani	23-Oct-09	Shallow well	4.94683	32.62439	1167	Clear	Tasteless	26.8	5.5	0.600	123.80
HP-824	Tabora Rural	Ibiri	Inonelwa	Migombani	23-Oct-09	Shallow well	4.93399	32.62689	1184	Clear	Salty	29.5	5.6	0.600	87.50
HP-825	Tabora Rural	Ibiri	Inonelwa	Ukalwa	23-Oct-09	Shallow well	4.95766	32.62019	1092	Clear	Tasteless	27.6	6.1	0.115	79.50
HP-826	Tabora Rural	Ibiri	Inonelwa	Ukalwa	23-Oct-09	Shallow well	4.96397	32.60551	1126	Clear	Tasteless	27.8	5.6	0.600	27.30
HP-827	Tabora Rural	Ibiri	Inonelwa	Ukalwa	23-Oct-09	Shallow well	4.95414	32.62671	1149	Clear	Tasteless	28.0	5.2	0.600	59.10
HP-828	Tabora Rural	Ibiri	Isimu	Isimu	23-Oct-09	Shallow well	4.88006	32.57449	1084	Clear	Salty	26.7	7.2	0.640	30.40
HP-829	Tabora Rural	Ibiri	Isimu	Isimu	23-Oct-09	Shallow well	4.87865	32.58547	1102	Mudy	Salty	29.3	7.0	0.570	38.12
HP-830	Tabora Rural	Ibiri	Isimu	Isimu	23-Oct-09	Shallow well	4.87176	32.56978	1121	Mudy	Salty	26.5	7.4	0.800	15.95
HP-832	Tabora Rural	Ibiri	Kilungu	Kasega Kichangani	29-Oct-09	Shallow well	4.81482	32.51845	1119	Clear	Tasteless	29.9	5.9	0.390	7.66
HP-833	Tabora Rural	Ibiri	Kilungu	Kasega Kichangani	29-Oct-09	Shallow well	4.80172	32.51767	1133	Clear	Tasteless	26.9	6.1	0.240	10.02
HP-834	Tabora Rural	Ibiri	Kilungu	Kilungu	29-Oct-09	Shallow well	4.83107	32.53566	1139	Clear	Tasteless	26.4	6.8	0.910	19.04
HP-835	Tabora Rural	Ibiri	Kilungu	Kilungu	29-Oct-09	Shallow well	4.82898	32.51456	1134	Clear	Tasteless	26.5	6.3	0.510	17.32
HP-836	Tabora Rural	Ibiri	Kilungu	Kilungu	29-Oct-09	Shallow well	4.84154	32.52047	1147	Clear	Tasteless	24.1	6.0	0.200	8.24
HP-837	Tabora Rural	Ibiri	Mwakashindye	Kininga	23-Oct-09	Shallow well	4.8246	32.64205	1162	Milky	Tasteless	26.7	6.3	0.910	74.20
HP-838	Tabora Rural	Ibiri	Mwakashindye	Mnyega	23-Oct-09	Shallow well	4.8147	32.58088	1187	Clear	Salty	26.1	6.0	0.270	82.00
HP-839	Tabora Rural	Ibiri	Mwakashindye	Mwakashindye	23-Oct-09	Shallow well	4.83376	32.61873	1138	Clear	Tasteless	27.3	6.9	0.400	70.90
HP-840	Tabora Rural	Ibiri	Mwakashindye	Mwakashindye	23-Oct-09	Shallow well	4.81649	32.62473	1044	Clear	Tasteless	27.2	6.7	0.990	40.30
HP-843	Tabora Rural	Igalula	Kawekapina	Chang'ombe	14-Oct-09	Deep well	5.28982	32.99182	1195	Clear	Salty	27.0	6.3	0.400	35.80
HP-844	Tabora Rural	Igalula	Kawekapina	Kawekapina	14-Oct-09	Deep well	5.29658	32.99721	1200	Clear	Salty	27.0	6.3	0.670	28.20
HP-845	Tabora Rural	Igalula	Kawekapina	Ntulu	14-Oct-09	Deep well	5.29186	33.05941	1188	Clear	Salty	27.4	7.1	0.770	50.90
HP-847	Tabora Rural	Igalula	Kigwa B	Magiri Chini	15-Oct-09	Shallow well	5.10333	33.1136	1196	Clear	Tasteless	28.4	6.9	0.800	2.40
HP-848	Tabora Rural	Igalula	Kigwa B	Magiri Chini	15-Oct-09	Shallow well	5.11553	33.08199	1235	Clear	Tasteless	26.0	5.6	0.400	62.20
HP-851	Tabora Rural	Igalula	Kigwa B	Majengo	15-Oct-09	Shallow well	5.11817	33.1258	1217	Milky	Tasteless	26.0	6.3	0.800	61.40
HP-852	Tabora Rural	Igalula	Kigwa B	Majengo	15-Oct-09	Shallow well	5.11855	33.12433	1231	Milky	Tasteless	26.5	6.6	0.860	42.30
HP-853	Tabora Rural	Igalula	Kigwa B	Majengo	15-Oct-09	Shallow well	5.11767	33.12576	1294	Clear	Salty	26.0	6.5	0.800	56.60
HP-856	Tabora Rural	Igalula	Kigwa B	N'gambo	15-Oct-09	Shallow well	5.13449	33.11184	1186	Clear	Tasteless	25.6	6.2	0.460	13.15
HP-857	Tabora Rural	Igalula	Kigwa B	N'gambo	15-Oct-09	Shallow well	5.13172	33.11065	1221	Reddish	Tasteless	27.5	6.7	0.860	33.40
HP-858	Tabora Rural	Igalula	Kigwa B	N'gambo	15-Oct-09	Deep well	5.12545	33.10933	1140	Milky	Tasteless	25.2	6.4	0.610	53.40
HP-860	Tabora Rural	Igalula	Nzigala	Miziwaziwa	7-Oct-09	Shallow well	5.19614	33.20279	1133	Clear	freash	28.0	6.5	0.800	112.60
HP-861	Tabora Rural	Igalula	Nzigala	Miziwaziwa	7-Oct-09	Deep well	5.16912	33.26149	1128	Clear	freash	28.0	6.2	0.500	117.40
HP-863	Tabora Rural	Igalula	Nzigala	Nzigala B	7-Oct-09	Shallow well	5.17191	33.21419	1132	Clear	freash	25.9	6.0	0.300	124.80
HP-864	Tabora Rural	Ilolangulu	Ilolangulu	Ilolangulu Mjini	18-Oct-09	Shallow well	5.09614	32.63634	1052	Clear	Tasteless	25.0	5.9	0.400	94.80
HP-865	Tabora Rural	Ilolangulu	Ilolangulu	Ilolangulu Mjini	18-Oct-09	Shallow well	5.09306	32.63684	1129	Milky	Tasteless	25.3	5.1	0.400	106.80
HP-867	Tabora Rural	Ilolangulu	Isila	Ibasa	21-Oct-09	Shallow well	5.06231	32.59903	1202	Clear	Tasteless	26.0	6.5	0.300	75.10
HP-868	Tabora Rural	Ilolangulu	Isila	Isila	21-Oct-09	Shallow well	5.05756	32.58707	1211	Clear	Salty	23.8	7.0	0.400	29.90
HP-870	Tabora Rural	Ilolangulu	Mbola	Mbola C	21-Oct-09	Shallow well	5.02227	32.58953	1220	Milky	Salty	26.8	5.3	0.400	80.90
HP-873	Tabora Rural	Isikizya	Ibelamilundi	Ibelamilundi Senta A	24-Oct-09	Shallow well	4.87986	33.18148	1268	Clear	Tasteless	28.3	6.5	0.320	62.30

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Tabora Rural District (2/3)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-875	Tabora Rural	Isikizya	Ibushi	Idete	24-Oct-09	Deep well	4.86131	33.12488	1228	Clear	Tasteless	29.7	7.1	0.690	41.90
HP-876	Tabora Rural	Isikizya	Igoko	Igoko Senta	17-Oct-09	Shallow well	4.82346	33.13181	1239	Milky	Salty	27.4	6.6	0.870	19.32
HP-877	Tabora Rural	Isikizya	Igoko	Kilimanjaro	17-Oct-09	Shallow well	4.8288	33.07234	1219	Milky	Tasteless	28.0	5.5	0.400	35.10
HP-879	Tabora Rural	Isikizya	Igoko	Nyamwezi	17-Oct-09	Shallow well	4.80998	33.12291	1218	Clear	Salty	26.2	6.8	0.800	4.20
HP-880	Tabora Rural	Isikizya	Igoko	Pemba	17-Oct-09	Shallow well	4.81837	33.0938	1254	Clear	Salty	27.6	6.6	0.880	8.69
HP-881	Tabora Rural	Isikizya	Ilalwasimba	Ihala	7-Oct-09	Deep well	4.89835	33.09654	1232	Milky	Mudy	27.5	5.1	ND	141.00
HP-883	Tabora Rural	Isikizya	Ilalwasimba	Ihala	7-Oct-09	Shallow well	4.90445	33.10366	1230	Milky	Mudy	25.9	6.0	0.400	102.00
HP-884	Tabora Rural	Isikizya	Ilalwasimba	Ikonola	7-Oct-09	Shallow well	4.91861	33.13352	1229	Milky	Mudy	27.1	5.3	ND	105.00
HP-885	Tabora Rural	Isikizya	Ilalwasimba	Ilandu	7-Oct-09	Shallow well	4.90908	33.14984	1243	Milky	Mudy	27.0	5.0	ND	89.00
HP-887	Tabora Rural	Isikizya	Ilalwasimba	Nsaguzi A	7-Oct-09	Shallow well	4.92257	33.10849	1225	Milky	Mudy	26.7	5.1	0.400	67.00
HP-890	Tabora Rural	Isikizya	Ilalwasimba	Ubala	7-Oct-09	Shallow well	4.89029	33.11221	1237	Milky	Mudy	26.8	6.0	0.400	500.00
HP-891	Tabora Rural	Kizengi	Kizengi	Kabisile	26-Oct-09	Shallow well	5.29721	33.64443	1232	Clear	Tasteless	28.0	5.9	0.400	27.70
HP-892	Tabora Rural	Kizengi	Kizengi	Kizengi Senta	26-Oct-09	Shallow well	5.34691	33.5798	1180	Clear	Tasteless	25.5	5.0	0.290	15.22
HP-893	Tabora Rural	Kizengi	Kizengi	Kizengi Senta	26-Oct-09	Shallow well	5.34788	33.58027	1173	Clear	Tasteless	25.3	6.1	0.400	24.00
HP-894	Tabora Rural	Kizengi	Kizengi	Kizengi Senta	26-Oct-09	Shallow well	5.34179	33.57998	1170	Clear	Saltty	25.5	7.6	0.800	41.20
HP-895	Tabora Rural	Kizengi	Kizengi	Ntindili	26-Oct-09	Shallow well	5.34628	33.62981	1218	Milky	Tasteless	26.2	5.3	0.200	14.36
HP-897	Tabora Rural	Kizengi	Malongwe	Kalola Njiapanda	26-Oct-09	Shallow well	5.36279	33.68009	1234	Clear	Tasteless	25.4	7.0	0.500	38.50
HP-898	Tabora Rural	Kizengi	Malongwe	Malongwe Kati	26-Oct-09	Shallow well	5.4404	33.64272	1187	Milky	Salty	27.2	6.5	0.520	8.30
HP-899	Tabora Rural	Kizengi	Malongwe	Malongwe Kati	26-Oct-09	Shallow well	5.4409	33.64342	1187	Clear	Tasteless	26.1	6.2	0.200	14.40
HP-901	Tabora Rural	Kizengi	Malongwe	Malongwe Kati	26-Oct-09	Shallow well	5.4372	33.6451	1221	Clear	Tasteless	27.7	7.7	0.800	4.47
HP-902	Tabora Rural	Kizengi	Mpumbuli	Mpumbuli	26-Oct-09	Shallow well	5.30743	33.47566	1179	Clear	Salty	26.1	5.1	0.260	23.50
HP-904	Tabora Rural	Loya	Kalangale/Masenge	Mwamlashi	28-Oct-09	Shallow well	4.83174	33.69727	1147	Clear	Salty	28.5	5.6	0.350	16.40
HP-906	Tabora Rural	Loya	Lutona	Legezamwendo	27-Oct-09	Shallow well	5.23444	33.75357	1185	Clear	Salty	26.7	8.0	7.940	156.90
HP-907	Tabora Rural	Loya	Lutona	Legezamwendo	27-Oct-09	Shallow well	5.23214	33.75172	1181	Clear	Salty	25.8	7.8	3.500	22.20
HP-908	Tabora Rural	Loya	Lutona	Lutona	27-Oct-09	Shallow well	5.16113	33.72934	1157	Clear	Salty	27.2	5.5	0.250	23.10
HP-909	Tabora Rural	Loya	Lutona	Lutona	27-Oct-09	Shallow well	5.17559	33.72008	1151	Clear	Salty	27.2	7.3	3.200	2.20
HP-911	Tabora Rural	Loya	Lutona	Mwanzelwa	27-Oct-09	Shallow well	5.17896	33.65819	1171	Milky	Tasteless	27.0	6.2	0.500	24.60
HP-913	Tabora Rural	Loya	Miswaki	Mpyagula	28-Oct-09	Shallow well	4.80649	33.74971	1052	Muddy	Salty	29.0	7.2	0.950	14.60
HP-915	Tabora Rural	Lutende	Mwakadala	Milumba/Mmale	28-Oct-09	Shallow well	4.95059	33.62784	1205	Milky	Taste of Iron	27.3	7.0	0.600	25.30
HP-917	Tabora Rural	Lutende	Mwakadala	Minza	28-Oct-09	Shallow well	4.89289	33.63143	1192	Clear	Salty	28.3	8.8	5.200	188.00
HP-919	Tabora Rural	Mabama	Kalola	Block Farm	18-Oct-09	Shallow well	5.00174	32.49054	1153	Clear	Tasteless	27.0	4.7	0.400	54.40
HP-920	Tabora Rural	Mabama	Kalola	Mbwaigolola	18-Oct-09	Shallow well	4.98504	32.47818	1157	Clear	Tasteless	26.1	5.7	0.800	80.10
HP-923	Tabora Rural	Mabama	Kalola	Tewa	18-Oct-09	Shallow well	5.04353	32.49381	1159	Milky	Tasteless	27.0	5.6	0.420	82.00
HP-925	Tabora Rural	Mabama	Mabama	Mabama Magharibi	18-Oct-09	Shallow well	5.11935	32.51538	1153	Yellowish	Taste of Iron	27.5	6.7	0.470	7.40
HP-926	Tabora Rural	Mabama	Maswanya	Maswanya Magharibi	18-Oct-09	Shallow well	5.05839	32.48911	1149	Clear	Tasteless	27.3	5.2	0.600	83.30
HP-927	Tabora Rural	Mabama	Maswanya	Maswanya Mashariki	18-Oct-09	Shallow well	5.06535	32.49276	1144	Clear	Tasteless	27.6	6.4	0.400	53.80
HP-932	Tabora Rural	Ndono	Itinka	Itinka Kiwanjani	20-Oct-09	Shallow well	5.04807	32.40932	1113	Clear	Salty	25.4	5.4	0.800	102.50
HP-935	Tabora Rural	Ndono	Ndono	Ndono Kusini	20-Oct-09	Shallow well	5.1167	32.44386	1174	Milky	Tasteless	25.2	6.2	0.400	144.60
HP-939	Tabora Rural	Ndono	Ndono	Ndono Senta	20-Oct-09	Shallow well	5.10133	32.44868	1167	Clear	Tasteless	26.2	5.5	0.400	4.09
HP-941	Tabora Rural	Ndono	Ndono	Ndono Senta	20-Oct-09	Shallow well	5.10649	32.45292	1164	Mudy	Tasteless	24.3	6.2	0.800	85.40
HP-942	Tabora Rural	Ndono	Nkulusi	Nkulusi C	20-Oct-09	Shallow well	4.97913	32.42581	1115	Clear	Tasteless	25.5	6.5	0.400	105.60
HP-945	Tabora Rural	Ndono	Nkulusi	Nkulusi Senta	20-Oct-09	Shallow well	5.00741	32.42	1137	Clear	Salty	25.8	6.1	0.400	68.00
HP-949	Tabora Rural	Ufuluma	Chessa	Chessa Mlimani	20-Oct-09	Shallow well	4.93353	32.45454	1159	Milky	Salty	24.2	6.8	0.900	43.80
HP-950	Tabora Rural	Ufuluma	Chessa	Igalula	20-Oct-09	Shallow well	4.95214	32.44032	1107	Clear	Tasteless	28.3	6.1	0.400	78.80
HP-953	Tabora Rural	Ufuluma	Chessa	Uzyungula	20-Oct-09	Shallow well	4.93536	32.43245	1090	Clear	Salty	26.6	5.0	0.400	52.00
HP-956	Tabora Rural	Ufuluma	Ufuluma	Imalampaka	18-Oct-09	Shallow well	4.96757	32.39626	1131	Clear	Tasteless	25.2	5.5	0.400	140.60
HP-957	Tabora Rural	Ufuluma	Ufuluma	Imalampaka	18-Oct-09	Shallow well	4.96441	32.39558	1097	Clear	Tasteless	24.3	6.1	0.800	86.50
HP-958	Tabora Rural	Ufuluma	Ufuluma	Ufuluma Senta	18-Oct-09	Shallow well	4.97836	32.38684	1147	Muddy	Salty	26.3	6.9	0.400	29.90

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Tabora Rural District (3/3)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-964	Tabora Rural	Ufuluma	Ugowola	Ugowola B	18-Oct-09	Shallow well	4.96495	32.3502	1156	Clear	Tasteless	26.8	4.9	0.280	74.10
HP-965	Tabora Rural	Upuge	Lunguya	Kalembela	24-Oct-09	Shallow well	4.85388	32.98848	1214	Clear	Tasteless	26.6	5.9	0.400	48.00
HP-966	Tabora Rural	Upuge	Lunguya	Kalembela	24-Oct-09	Shallow well	4.84168	32.97816	1210	Milky	Tasteless	27.9	6.3	0.500	35.30
HP-967	Tabora Rural	Upuge	Lunguya	Lekatugeme	24-Oct-09	Shallow well	4.88801	32.97397	1250	Milky	Tasteless	28.5	6.1	0.500	95.00
HP-968	Tabora Rural	Upuge	Lunguya	Lekatugeme	24-Oct-09	Shallow well	4.89237	32.98521	1255	Clear	Salty	25.8	5.5	0.150	26.40
HP-969	Tabora Rural	Upuge	Lunguya	Mwegelezi	24-Oct-09	Shallow well	4.86649	32.97591	1231	Milky	Tasteless	25.5	6.1	0.500	67.60
HP-970	Tabora Rural	Upuge	Lunguya	Mwegelezi	24-Oct-09	Shallow well	4.86916	32.9889	1234	Milky	Tasteless	25.5	6.2	0.440	53.40
HP-971	Tabora Rural	Upuge	Mhogwe	Mhogwe A	24-Oct-09	Deep well	4.85991	33.00299	1231	Clear	Tasteless	29.9	6.9	1.400	4.63
HP-973	Tabora Rural	Upuge	Uhuru Mbiti	Uhuru Mbiti A	24-Oct-09	Deep well	4.8534	32.95447	1208	Clear	Salty	27.3	6.8	1.250	6.90
HP-974	Tabora Rural	Upuge	Uhuru Mbiti	Uhuru Mbiti B	24-Oct-09	Deep well	4.85376	32.93826	1202	Clear	Salty	28.7	6.1	0.200	32.50
HP-975	Tabora Rural	Upuge	Upuge	Upuge A	7-Oct-09	Deep well	4.91354	32.97441	1256	Milky	Salty	24.5	6.5	0.480	12.20
HP-976	Tabora Rural	Upuge	Upuge	Upuge B	7-Oct-09	Unknown	4.91138	32.98943	1271	Milky	Salty	25.4	5.9	1.110	18.60
HP-977	Tabora Rural	Usagari	Azimio	Azimio Senta	21-Oct-09	Shallow well	4.85757	32.46134	1110	Clear	Tasteless	27.6	6.3	0.400	72.00
HP-978	Tabora Rural	Usagari	Imalauduki	Imalanduki	21-Oct-09	Shallow well	4.92096	32.49089	1053	Clear	Salty	26.9	6.3	0.400	42.50
HP-979	Tabora Rural	Usagari	Imalauduki	Imalanduki	21-Oct-09	Shallow well	4.92852	32.48821	1103	Clear	Tasteless	27.2	6.2	0.400	98.60
HP-980	Tabora Rural	Usagari	Imalauduki	Imalanduki	21-Oct-09	Shallow well	4.9172	32.49601	1149	Clear	Tasteless	26.0	5.6	0.090	118.80
HP-986	Tabora Rural	Usagari	Msimba	Kabeleka	7-Oct-09	Shallow well	4.92802	32.53091	1255	Milky	Taste of Iron	27.4	6.3	0.770	18.19
HP-987	Tabora Rural	Usagari	Msimba	Mienda	7-Oct-09	Shallow well	4.92542	32.52162	1256	Milky	Taste of Iron	25.8	4.7	0.260	21.90
HP-988	Tabora Rural	Usagari	Msimba	Mienda	7-Oct-09	Shallow well	4.9208	32.51358	1258	Milky	Taste of Iron	25.8	6.7	1.140	35.40
HP-989	Tabora Rural	Usagari	Msimba	Msimba Senta	7-Oct-09	Shallow well	4.91511	32.53091	1260	Clear	Taste of Iron	26.2	5.6	0.120	12.33
HP-990	Tabora Rural	Usagari	Msimba	Msimba Senta	7-Oct-09	Shallow well	4.91377	32.53743	1268	Clear	Salty	26.9	6.8	1.320	76.70

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Tabora Urban (1/2)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-992	Tabora Urban	Itetemia	Itetemia	Isukamahela	9-Oct-09	Shallow well	5.11722	32.78259	1187	Milky	Good	26.8	5.8	0.400	70.40
HP-993	Tabora Urban	Itetemia	Itetemia	Kipalapala Kaskazini	9-Oct-09	Shallow well	5.09528	32.789	1191	Milky	Good	27.6	6.0	0.400	13.50
HP-995	Tabora Urban	Itetemia	Itetemia	Kipalapala Kati	9-Oct-09	Shallow well	5.10727	32.7954	1178	Milky	Good	27.0	6.5	0.400	49.40
HP-996	Tabora Urban	Itetemia	Itetemia	Kipalapala Kati	9-Oct-09	Shallow well	5.09044	32.79254	1202	Milky	Good	27.4	6.5	0.800	36.40
HP-997	Tabora Urban	Itetemia	Itetemia	Kipalapala Magharibi	9-Oct-09	Shallow well	5.13091	32.77881	1185	Milky	Good	26.0	6.4	0.400	23.20
HP-999	Tabora Urban	Itetemia	Itetemia	Kipalapala Masahariki	9-Oct-09	Shallow well	5.05652	32.77227	1196	Milky	Good	26.6	6.3	0.400	2.60
HP-1001	Tabora Urban	Itetemia	Itetemia	Kipalapala Masahariki	9-Oct-09	Shallow well	5.09424	32.79652	1199	Milky	Good	27.7	6.5	0.400	40.50
HP-1004	Tabora Urban	Itetemia	Itetemia	Kwihara	9-Oct-09	Shallow well	5.06478	32.7841	1215	Milky	Good	26.6	6.1	0.400	18.00
HP-1005	Tabora Urban	Itetemia	Itetemia	Kwihara	9-Oct-09	Shallow well	5.06356	32.78117	1215	Milky	Good	23.3	6.1	0.400	23.80
HP-1008	Tabora Urban	Itetemia	Itetemia	Masimba	9-Oct-09	Shallow well	5.07685	32.79732	1195	Milky	Mud	27.2	5.8	ND	5.60
HP-1009	Tabora Urban	Itetemia	Lusangi	Igombanilo	10-Oct-09	Deep well	5.16886	32.75421	1166	Milky	Salty	27.0	6.1	0.800	6.28
HP-1010	Tabora Urban	Itetemia	Lusangi	Igombanilo	10-Oct-09	Unknown	5.18106	32.75098	1150	Milky	Fresh	26.4	5.5	0.400	8.15
HP-1011	Tabora Urban	Itetemia	Lusangi	kikundi	10-Oct-09	Deep well	5.17854	32.73516	1144	Milky	Fresh	26.2	6.5	0.800	1.89
HP-1013	Tabora Urban	Itetemia	Lusangi	Mtakuja Magharibi	10-Oct-09	Shallow well	5.14613	32.74443	1185	Milky	Fresh	27.4	6.1	ND	7.73
HP-1015	Tabora Urban	Itetemia	Lusangi	Mtakuja Mashariki	10-Oct-09	Unknown	5.15478	32.75762	1190	Clear	Salty	26.7	5.7	0.600	1.52
HP-1016	Tabora Urban	Itetemia	Lusangi	Tiara	10-Oct-09	Deep well	5.15489	32.72576	1143	Clear	Partable	27.6	5.0	0.400	6.27
HP-1018	Tabora Urban	Itetemia	Ntalikwa	Ntalikwa Kati	10-Oct-09	Unknown	5.11319	32.73984	1203	Milky	FRESH	25.0	6.2	0.400	7.50
HP-1021	Tabora Urban	Itetemia	Ntalikwa	Usenge	10-Oct-09	Unknown	5.07061	32.74354	1196	Clear	Salty	25.6	6.7	0.800	3.75
HP-1022	Tabora Urban	Itetemia	Ntalikwa	Usenge	10-Oct-09	Unknown	5.07739	32.75263	1204	Milky	Fresh	26.3	6.2	0.400	3.16
HP-1023	Tabora Urban	Itonjanda	Ifucha	Ifucha kati	15-Nov-09	Deep well	5.03388	32.93624	1275	Milky	Fresh	27.1	6.9	0.400	9.20
HP-1025	Tabora Urban	Itonjanda	Ifucha	Mizibaziba	15-Nov-09	Deep well	5.04836	32.92007	1243	Milky	Fresh	27.2	7.2	0.400	6.40
HP-1029	Tabora Urban	Itonjanda	Itonjanda	Itonjanda	8-Oct-09	Shallow well	4.98229	32.94895	1242	Milky	Tasteless	24.0	6.3	1.200	15.60
HP-1031	Tabora Urban	Itonjanda	Itonjanda	Manoleo	8-Oct-09	Shallow well	4.98267	32.9248	1221	Milky	Tasteless	25.5	6.1	0.400	12.68
HP-1033	Tabora Urban	Itonjanda	Itonjanda	Nyambele	8-Oct-09	Shallow well	4.97069	32.9494	1245	Milky	Tasteless	25.2	5.9	0.400	12.61
HP-1034	Tabora Urban	Itonjanda	Itonjanda	Nyambele	8-Oct-09	Shallow well	4.9663	32.95261	1243	Milky	Tasteless	25.4	6.1	0.900	15.68
HP-1037	Tabora Urban	Kakola	Igombe	Ikomwa	9-Oct-09	Deep well	4.77268	32.79901	1149	Clear	Tasteless	25.3	5.7	0.300	7.09
HP-1038	Tabora Urban	Kakola	Igombe	Kapunze	9-Oct-09	Deep well	4.741	32.79256	1146	Clear	Salty	21.9	6.5	0.390	18.23
HP-1039	Tabora Urban	Kakola	Igombe	Kapunze	9-Oct-09	Deep well	4.71691	32.77958	1139	Clear	Tasteless	24.2	5.5	0.144	6.90
HP-1040	Tabora Urban	Kakola	Kakola	Kakola	9-Oct-09	Shallow well	4.86728	32.82923	1186	Milky	Tasteless	24.3	6.1	0.700	8.82
HP-1041	Tabora Urban	Kakola	Magoweko	Magoweko	9-Oct-09	Shallow well	4.84776	32.78716	1158	Milky	Salty	26.4	6.1	0.600	14.94
HP-1042	Tabora Urban	Kalunde	Izimbili	Izimbili	10-Oct-09	Unknown	5.00388	32.72611	1184	Clear	Clear	26.7	5.2	0.400	28.00
HP-1043	Tabora Urban	Kalunde	Kalunde	Block farm	10-Oct-09	Shallow well	4.90981	32.67121	1127	Muddy	Clear	27.2	5.7	ND	16.00
HP-1044	Tabora Urban	Kalunde	Kalunde	Block farm	10-Oct-09	Shallow well	4.91508	32.65258	1134	Muddy	Clear	26.8	5.8	ND	17.20
HP-1045	Tabora Urban	Kalunde	Kalunde	Block farm	10-Oct-09	Shallow well	4.90359	32.63684	1129	Clear	Clear	26.8	5.5	0.400	18.00
HP-1046	Tabora Urban	Kalunde	Kalunde	Msangi	10-Oct-09	Shallow well	4.95742	32.66961	1150	Clear	Clear	26.2	6.2	0.400	16.20
HP-1047	Tabora Urban	Kalunde	Kalunde	Msangi	10-Oct-09	Shallow well	4.95075	32.65995	1150	Clear	Clear	26.8	5.3	0.400	18.30
HP-1048	Tabora Urban	Kalunde	Kalunde	Msangi	10-Oct-09	Shallow well	4.9372	32.64947	1143	Clear	Clear	26.9	5.4	0.800	19.00
HP-1049	Tabora Urban	Kalunde	Kalunde	Umanda	10-Oct-09	Shallow well	4.87679	32.65935	1133	Clear	Clear	26.4	6.4	0.400	30.00
HP-1050	Tabora Urban	Kalunde	Kalunde	Umanda	10-Oct-09	Shallow well	4.87499	32.64573	1127	Clear	Clear	26.9	5.6	0.400	22.00
HP-1051	Tabora Urban	Kalunde	Ulamba	Iwonga	10-Oct-09	Shallow well	5.00257	32.74816	1179	Clear	Clear	26.9	5.8	0.800	6.30
HP-1053	Tabora Urban	Kalunde	Ulamba	Upimbili	10-Oct-09	Shallow well	4.99317	32.7568	1173	Clear	Clear	26.8	6.2	0.400	12.00
HP-1054	Tabora Urban	Misha	Igambilo	Igambilo kati	9-Oct-09	Shallow well	4.91246	32.72348	1143	Milky	Tasteless	26.0	6.6	1.010	11.15
HP-1055	Tabora Urban	Misha	Kabila	Kabila Kati	9-Oct-09	Shallow well	4.84667	32.76693	1185	Clear	Tasteless	26.6	5.2	0.200	13.64
HP-1057	Tabora Urban	Misha	Masagala	Masagala Kati	15-Nov-09	Deep well	4.93459	32.80145	1204	Milky	Salty	24.8	6.5	0.560	103.70
HP-1058	Tabora Urban	Misha	Masagala	Tumbi	15-Nov-09	Deep well	4.91502	32.79807	1215	Clear	Slightly Salty	25.5	6.7	1.710	51.10
HP-1059	Tabora Urban	Ndevelwa	Inala	Ibasa	8-Oct-09	Shallow well	5.12019	32.95776	1204	Milky	Mud	27.7	6.1	0.400	215.00
HP-1060	Tabora Urban	Ndevelwa	Inala	Inala one	8-Oct-09	Shallow well	5.06829	32.91725	1223	Milky	Mud	24.9	5.9	ND	210.00

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Tabora Urban (2/2)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-1064	Tabora Urban	Ndevelwa	Itulu	Itulu Station	8-Oct-09	Shallow well	5.13734	32.85651	1161	Milky	Mud Taste	25.2	5.2	0.400	120.00
HP-1065	Tabora Urban	Ndevelwa	Ndevelwa	Mishagiwela	15-Nov-09	Deep well	5.1099	32.8763	1207	Milky	Fresh	27.4	7.0	0.400	5.40
HP-1066	Tabora Urban	Ndevelwa	Ndevelwa	Mishagiwela	15-Nov-09	Shallow well	5.10712	32.89387	1217	Milky	Fresh	27.2	7.2	ND	6.30
HP-1068	Tabora Urban	Tumbi	Tumbi	Kipela Kaskazini	10-Oct-09	Shallow well	5.10383	32.69673	1144	Muddy	Clear	26.8	6.4	0.400	40.00
HP-1069	Tabora Urban	Tumbi	Tumbi	Kipela Kusini	10-Oct-09	Shallow well	5.14446	32.68057	1139	Muddy	Clear	26.8	6.8	0.400	48.00
HP-1070	Tabora Urban	Tumbi	Tumbi	Sokoine	10-Oct-09	Shallow well	5.02219	32.66027	1168	Clear	Clear	26.4	6.2	0.800	25.20
HP-1071	Tabora Urban	Tumbi	Tumbi	Tumbi Kibaoni	10-Oct-09	Unknown	5.07702	32.69489	1163	Muddy	Clear	26.7	5.9	0.800	28.00
HP-1072	Tabora Urban	Tumbi	Tumbi	Tumbi Kibaoni	10-Oct-09	Unknown	5.07523	32.69608	1166	Muddy	Clear	26.8	6.1	0.400	30.00
HP-1073	Tabora Urban	Uyui	Imalamihayo	Imalamihayo	9-Oct-09	Shallow well	4.93956	32.88294	1230	Milky	Salty	24.7	5.9	0.900	10.90
HP-1075	Tabora Urban	Uyui	Uyui	Maendeleo	8-Oct-09	Deep well	4.945	32.83281	1193	Milky	Tasteless	25.2	5.6	0.670	19.70
HP-1076	Tabora Urban	Uyui	Kalumwa	Kalumwa	8-Oct-09	Deep well	4.88345	32.86124	1168	Milky	Salty and Odour	24.4	5.9	0.700	15.08

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Urambo District (1/5)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-1077	Urambo	Ichemba	Ichemba	Ichemba	14-Nov-09	Shallow well	4.74781	32.36944	1112	Clear	Fresh	26.5	6.3	0.400	6.30
HP-1078	Urambo	Ichemba	Ichemba	Ichemba	14-Nov-09	Deep well	4.75045	32.35714	1133	Clear	Fresh	26.5	6.3	0.400	6.30
HP-1081	Urambo	Ichemba	Makingi	Makingi	14-Nov-09	Deep well	4.67445	32.28951	1112	Clear	Fresh	28.5	6.3	0.400	4.50
HP-1082	Urambo	Ichemba	Makingi	Usigala	14-Nov-09	Deep well	4.70553	32.31185	1118	Clear	Salty	27.5	6.9	0.800	32.00
HP-1089	Urambo	Igagala	Mpwaga	Mpwaga	3-Nov-09	Shallow well	4.93634	31.68179	1087	Milky	Salty	26.4	6.7	0.360	28.70
HP-1090	Urambo	Igagala	Mtakuja	Igalala No. 6	3-Nov-09	Shallow well	4.93073	31.62133	1097	Milky	Tasteless	26.1	6.4	0.200	9.20
HP-1097	Urambo	Imalamakoye	Imalamakoye	Imalamakoye D	6-Nov-09	Shallow well	5.10725	32.07065	1107	Clear	Tasteless	25.7	6.1	0.086	11.40
HP-1098	Urambo	Imalamakoye	Itebulanda	Itebulanda	6-Nov-09	Shallow well	5.20273	32.08471	1098	Clear	Tasteless	27.0	5.4	0.085	62.00
HP-1099	Urambo	Imalamakoye	Itebulanda	Mafwengi	6-Nov-09	Deep well	5.20849	32.07949	1097	Clear	Tasteless	26.8	5.7	0.165	15.00
HP-1101	Urambo	Itundu	Itundu	Barabarani	7-Nov-09	Deep well	5.08864	32.15067	1101	Clear	Salty	26.4	5.9	0.190	23.30
HP-1102	Urambo	Itundu	Itundu	Barabarani	7-Nov-09	Deep well	5.08245	32.15135	1106	Clear	Slightly Salty	25.9	6.1	0.162	25.00
HP-1103	Urambo	Itundu	Itundu	Barabarani	7-Nov-09	Deep well	5.08303	32.1591	1106	Clear	Salty	26.5	5.4	0.065	15.00
HP-1106	Urambo	Itundu	Itundu	Barabarani	7-Nov-09	Shallow well	5.09064	32.15805	1100	Milky	Tasteless	26.3	5.8	0.038	6.40
HP-1110	Urambo	Itundu	Itundu	Geradi	7-Nov-09	Shallow well	5.04889	32.14935	1132	Clear	Tasteless	26.7	6.2	0.230	40.00
HP-1111	Urambo	Itundu	Itundu	Geradi	7-Nov-09	Deep well	5.05477	32.14116	1127	Clear	Slightly Saly	26.9	6.2	0.110	15.00
HP-1112	Urambo	Itundu	Itundu	Iyolelo	7-Nov-09	Deep well	5.06195	32.1561	1122	Clear	Salty	26.8	6.8	0.065	62.00
HP-1114	Urambo	Itundu	Itundu	Matwiga	7-Nov-09	Deep well	5.07903	32.13725	1103	Clear	Slightly Saly	27.1	6.5	0.189	22.00
HP-1115	Urambo	Itundu	Kitete	Ilani	7-Nov-09	Deep well	5.03344	32.17393	1140	Clear	Tasteless	26.7	6.4	0.098	24.00
HP-1116	Urambo	Itundu	Kitete	Ilani	7-Nov-09	Deep well	5.03542	32.16127	1143	Clear	Tasteless	26.9	6.2	0.116	32.00
HP-1117	Urambo	Itundu	Kitete	Kitete	7-Nov-09	Deep well	5.02741	32.18687	1139	Clear	Tasteless	26.7	5.9	0.162	16.00
HP-1118	Urambo	Itundu	Kitete	Kitete	7-Nov-09	Deep well	5.03283	32.18998	1134	Clear	Salty	26.4	6.8	0.110	62.00
HP-1122	Urambo	Itundu	Wema	Wema A	6-Nov-09	Shallow well	5.17596	32.14167	1109	Clear	Tasteless	26.2	5.0	0.017	23.00
HP-1123	Urambo	Itundu	Wema	Wema A	6-Nov-09	Shallow well	5.16921	32.13093	1111	Clear	Tasteless	26.4	5.4	0.031	15.00
HP-1125	Urambo	Kaliua	Ilindwanoni	Muungano	3-Nov-09	Deep well	5.03748	31.73544	1086	Clear	Little salty	26.4	6.8	0.200	21.40
HP-1126	Urambo	Kaliua	Ilindwanoni	Muungano	3-Nov-09	Shallow well	5.03441	31.72979	1084	Clear	Little salty	27.1	6.4	0.198	18.20
HP-1129	Urambo	Kaliua	Kaliua Magharibi	Kapuya	3-Nov-09	Shallow well	5.0565	31.78927	1079	Clear	Tasteless	26.9	5.6	1.200	15.60
HP-1134	Urambo	Kaliua	Kasungu	Kasisi	3-Nov-09	Deep well	4.99182	31.76794	1097	Clear	Little salty	26.4	6.8	0.340	32.00
HP-1135	Urambo	Kaliua	Kasungu	Kasungu Kati	3-Nov-09	Deep well	5.01643	31.80344	1100	Clear	Salty	26.8	6.4	0.240	62.10
HP-1141	Urambo	Kapilula	Kapilula	Usongelani	7-Nov-09	Shallow well	5.07768	32.10764	1117	Clear	Tasteless	26.6	6.3	0.143	9.30
HP-1154	Urambo	Kashishi	Bulela	Bulela	12-Nov-09	Shallow well	4.32128	32.22137	1149	Clear	Tasteless	25.6	6.7	0.340	84.20
HP-1155	Urambo	Kashishi	Bulela	Nyasa	12-Nov-09	Shallow well	4.32795	32.24556	1146	Milky	Tasteless	24.7	6.1	0.200	14.86
HP-1156	Urambo	Kashishi	Bulela	Nyasa	12-Nov-09	Shallow well	4.30559	32.25508	1150	Milky	Tasteless	24.9	6.7	0.380	36.10
HP-1158	Urambo	Kashishi	Busondi	Busondi	4-Nov-09	Shallow well	4.40211	32.29665	1176	Milky	Little salty	25.2	6.1	0.191	17.20
HP-1160	Urambo	Kashishi	Busondi	Malinga	4-Nov-09	Deep well	4.39182	32.31974	1184	Clear	Tasteless	25.6	6.3	0.110	23.00
HP-1161	Urambo	Kashishi	Busondi	Malinga	4-Nov-09	Shallow well	4.41607	32.31426	1172	Clear	Tasteless	25.4	6.2	0.180	32.00
HP-1164	Urambo	Kashishi	Ilege	Itangwa	12-Nov-09	Shallow well	4.44069	32.27105	1177	Clear	Tasteless	25.5	6.2	0.050	20.00
HP-1165	Urambo	Kashishi	Ilege	Mpagasha	12-Nov-09	Deep well	4.44961	32.35119	1171	Clear	Tasteless	27.5	6.3	0.270	93.00
HP-1166	Urambo	Kashishi	Ilege	Mpagasha	12-Nov-09	Shallow well	4.43442	32.35279	1178	Clear	Tasteless	27.1	6.1	0.200	104.00
HP-1168	Urambo	Kashishi	Ilege	Shindeni	12-Nov-09	Shallow well	4.41591	32.28027	1184	Clear	Tasteless	25.2	6.4	0.057	17.50
HP-1170	Urambo	Kashishi	Ilege	Simkule	12-Nov-09	Shallow well	4.45267	32.27504	1210	Clear	Tasteless	26.1	5.8	0.080	24.00
HP-1171	Urambo	Kashishi	Ilege	Simkule	12-Nov-09	Shallow well	4.44462	32.36347	1189	Milky	Salty	26.8	6.2	0.450	23.80
HP-1172	Urambo	Kashishi	Iyombo	Ibulwa	12-Nov-09	Deep well	4.3572	32.43221	1146	Clear	Salty	26.0	5.9	0.027	70.00
HP-1173	Urambo	Kashishi	Iyombo	Iyombo	12-Nov-09	Shallow well	4.43762	32.42427	1178	Clear	Tasteless	26.0	6.3	0.360	18.70
HP-1174	Urambo	Kashishi	Iyombo	Nyambula	12-Nov-09	Deep well	4.37506	32.45288	1146	Clear	Sailty	25.3	6.3	0.330	80.00
HP-1175	Urambo	Kashishi	Iyombo	Wendele	12-Nov-09	Shallow well	4.41115	32.45169	1159	Milky	Salty	25.9	6.5	0.260	75.00
HP-1176	Urambo	Kashishi	Kagera	Kagera A	12-Nov-09	Deep well	4.38897	32.46186	1145	Clear	Tasteless	26.1	5.8	0.210	31.80
HP-1177	Urambo	Kashishi	Kagera	Kawe	12-Nov-09	Deep well	4.40463	32.42286	1177	Clear	Tasteless	26.2	6.4	0.180	12.40
HP-1178	Urambo	Kashishi	Kashishi	Kinamagila	4-Nov-09	Shallow well	4.41808	32.38492	1172	Milky	Little salty	27.1	6.4	0.100	62.00
HP-1179	Urambo	Kashishi	Kashishi	Kinamagila	4-Nov-09	Shallow well	4.41572	32.39738	1176	Milky	Little salty	27.0	6.2	0.197	35.40

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Urambo District (2/5)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-1182	Urambo	Kashishi	Kashishi	Ukungura	4-Nov-09	Shallow well	4.41147	32.35614	1164	Clear	Tasteless	26.8	5.8	0.120	19.70
HP-1183	Urambo	Kashishi	Kashishi	Ugundu	4-Nov-09	Shallow well	4.3616	32.40176	1161	Milky	Little salty	26.9	6.2	0.152	29.00
HP-1184	Urambo	Kashishi	King`wangoko	King`wangoko	4-Nov-09	Shallow well	4.3922	32.24094	1178	Turbid	Tasteless	24.8	5.7	0.120	98.00
HP-1185	Urambo	Kashishi	King`wangoko	Majengo A	4-Nov-09	Shallow well	4.40629	32.2665	1160	Clear	Tasteless	26.1	5.7	0.092	21.00
HP-1186	Urambo	Kashishi	King`wangoko	Majengo B	4-Nov-09	Shallow well	4.40366	32.26904	1164	Clear	Tasteless	25.4	6.1	0.063	8.02
HP-1187	Urambo	Kashishi	King`wangoko	Miluli	4-Nov-09	Shallow well	4.35926	32.23432	1186	Muddy	Little salty	26.3	6.2	0.192	15.00
HP-1188	Urambo	Kashishi	King`wangoko	Mkilingi	4-Nov-09	Shallow well	4.43934	32.23187	1181	Clear	Tasteless	24.8	5.8	0.110	62.00
HP-1189	Urambo	Kashishi	King`wangoko	Mononga	4-Nov-09	Shallow well	4.40446	32.2125	1150	Clear	Tasteless	25.1	6.4	0.198	72.00
HP-1190	Urambo	Kashishi	King`wangoko	Shininga	4-Nov-09	Shallow well	4.45705	32.23315	1134	Turbid	Little salty	24.7	5.5	0.066	9.26
HP-1191	Urambo	Kashishi	King`wangoko	Shininga	4-Nov-09	Shallow well	4.44467	32.20955	1117	Turbid	Tasteless	25.3	6.2	0.052	31.00
HP-1192	Urambo	Kashishi	Mgiri	Busubi	4-Nov-09	Shallow well	4.37916	32.28524	1168	Clear	Tasteless	26.4	6.7	0.087	51.00
HP-1193	Urambo	Kashishi	Mgiri	Kilimawe	4-Nov-09	Shallow well	4.43943	32.24637	1142	Clear	Tasteless	25.1	6.1	0.194	12.00
HP-1194	Urambo	Kashishi	Mwendakulima	Katala	12-Nov-09	Shallow well	4.34351	32.28646	1183	Milky	Salty	25.0	6.4	0.350	21.50
HP-1195	Urambo	Kashishi	Mwendakulima	Kidete	12-Nov-09	Deep well	4.34076	32.30816	1197	Clear	Tasteless	26.2	6.0	0.210	27.50
HP-1196	Urambo	Kashishi	Mwendakulima	Kidete	12-Nov-09	Deep well	4.34771	32.3322	1195	Clear	Tasteless	27.1	6.2	0.320	38.90
HP-1197	Urambo	Kashishi	Mwendakulima	Kidete	12-Nov-09	Deep well	4.3599	32.32607	1192	Clear	Tasteless	26.8	6.7	0.135	41.70
HP-1198	Urambo	Kashishi	Mwendakulima	Kidete	12-Nov-09	Shallow well	4.36276	32.29941	1170	Clear	Tasteless	26.4	6.6	0.147	52.70
HP-1199	Urambo	Kashishi	Mwendakulima	Mhanga	12-Nov-09	Deep well	4.30818	32.31342	1179	Slightly Milky	Tasteless	26.9	6.2	0.230	5.96
HP-1200	Urambo	Kashishi	Mwendakulima	Mhanga	12-Nov-09	Shallow well	4.29122	32.31293	1154	Milky	Tasteless	25.4	5.8	0.195	12.70
HP-1201	Urambo	Kashishi	Mwendakulima	Mhanga	12-Nov-09	Shallow well	4.27582	32.29755	1135	Milky	Tasteless	27.9	6.3	0.095	14.43
HP-1202	Urambo	Kashishi	Mwendakulima	Mhanga	12-Nov-09	Shallow well	4.33296	32.31092	1208	Milky	Tasteless	26.5	6.0	0.105	17.30
HP-1203	Urambo	Kashishi	Mwendakulima	Mwendakulima	12-Nov-09	Deep well	4.28008	32.32722	1125	Clear	Salty	24.9	4.5	0.104	21.90
HP-1204	Urambo	Kashishi	Mwendakulima	Mwendakulima	12-Nov-09	Deep well	4.35495	32.29466	1177	Clear	Salty	25.4	6.2	0.290	26.90
HP-1205	Urambo	Kashishi	Nyasa	Itumbo	12-Nov-09	Deep well	4.30499	32.25874	1148	Clear	Salty	25.5	6.0	0.310	38.60
HP-1206	Urambo	Kashishi	Nyasa	Msoke	12-Nov-09	Deep well	4.27566	32.27904	1118	Clear	Tasteless	24.2	5.7	0.260	96.50
HP-1208	Urambo	Kashishi	Sasu	Bulinda	12-Nov-09	Shallow well	4.44308	32.32308	1149	Clear	Salty	26.5	5.2	0.300	19.80
HP-1209	Urambo	Kashishi	Sasu	Ibilingo	12-Nov-09	Deep well	4.49177	32.33434	1156	Clear	Tasteless	25.9	6.3	0.170	15.00
HP-1210	Urambo	Kashishi	Sasu	Ibilingo	12-Nov-09	Shallow well	4.48438	32.34259	1156	Clear	Tasteless	26.6	6.1	0.280	23.40
HP-1211	Urambo	Kashishi	Sasu	Kitenge	12-Nov-09	Shallow well	4.43302	32.2536	1141	Clear	Tasteless	24.9	5.7	0.073	11.30
HP-1212	Urambo	Kashishi	Sasu	Sasu A	12-Nov-09	Deep well	4.46137	32.3174	1179	Clear	Sailty	26.2	6.3	0.120	45.00
HP-1213	Urambo	Kashishi	Sasu	Sasu A	12-Nov-09	Deep well	4.46439	32.33128	1135	Clear	Little salty	25.8	5.7	0.230	62.60
HP-1214	Urambo	Kashishi	Sasu	Sasu B	12-Nov-09	Deep well	4.48317	32.29111	1163	Clear	Salty	27.1	5.9	0.370	22.50
HP-1215	Urambo	Kashishi	Seleli	Buchama	12-Nov-09	Shallow well	4.36723	32.31703	1172	Clear	Tasteless	26.9	6.0	0.136	43.60
HP-1218	Urambo	Kashishi	Seleli	Kasongo	12-Nov-09	Shallow well	4.31635	32.29048	1200	Milky	Tasteless	27.0	6.1	0.090	5.74
HP-1219	Urambo	Kashishi	Seleli	Luguma	12-Nov-09	Shallow well	4.32829	32.35482	1152	Slightly Milky	Tasteless	25.1	5.4	0.192	13.60
HP-1220	Urambo	Kashishi	Seleli	Luguma	12-Nov-09	Shallow well	4.30771	32.35342	1135	Yellowish	Salty	26.9	6.7	0.200	34.20
HP-1221	Urambo	Kashishi	Seleli	Seleli	12-Nov-09	Deep well	4.31226	32.32709	1173	Milky	Tasteless	25.0	6.8	0.260	21.20
HP-1222	Urambo	Kashishi	Seleli	Seleli	12-Nov-09	Deep well	4.33702	32.33057	1191	Slightly Milky	Tasteless	24.3	6.2	0.160	44.80
HP-1223	Urambo	Kazaroho	Igwisi	Imalampaka	5-Nov-09	Shallow well	4.92499	31.89847	1121	Clear	Tasteless	26.0	5.9	0.027	70.00
HP-1224	Urambo	Kazaroho	Igwisi	Twende pamoja	5-Nov-09	Shallow well	4.91697	31.9027	1124	Clear	Tasteless	26.0	5.9	0.027	70.00
HP-1226	Urambo	Kazaroho	Imalamihayo	Imalamihayo A	5-Nov-09	Shallow well	5.0111	31.8556	1102	Clear	Tasteless	26.2	5.6	0.032	15.00
HP-1227	Urambo	Kazaroho	Imalamihayo	Imalamihayo A	5-Nov-09	Shallow well	5.01136	31.86309	1104	Clear	Tasteless	25.8	6.2	0.052	21.00
HP-1229	Urambo	Kazaroho	Imalamihayo	Imalamihayo B	5-Nov-09	Shallow well	5.01318	31.85865	1105	Clear	Tasateless	27.2	4.9	0.012	19.00
HP-1230	Urambo	Kazaroho	Imalamihayo	Imalamihayo B	5-Nov-09	Shallow well	5.01188	31.85869	1102	Clear	Tasteless	27.6	4.6	0.005	8.70
HP-1231	Urambo	Kazaroho	Imalamihayo	Imalamihayo B	5-Nov-09	Shallow well	5.0149	31.85639	1102	Clear	Tasteless	26.1	5.6	0.061	18.00
HP-1232	Urambo	Kazaroho	Imalamihayo	Imalamihayo B	5-Nov-09	Shallow well	5.01342	31.85632	1103	Clear	Tasteless	25.4	5.6	0.070	15.30
HP-1235	Urambo	Kazaroho	Usimba	Usimba B	5-Nov-09	Deep well	5.01054	31.92054	1134	Clear	Little salty	26.7	6.1	0.092	112.90
HP-1237	Urambo	Kazaroho	Usimba	Usimba C	5-Nov-09	Deep well	5.00566	31.92617	1131	Clear	Tasteless	28.0	6.2	0.140	43.00
HP-1238	Urambo	Kazaroho	Usimba	Usimba D	5-Nov-09	Deep well	5.00761	31.93162	1134	Clear	Little salty	27.0	6.3	0.180	31.80

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Urambo District (3/5)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-1239	Urambo	Kiloleni	Kalembela	Nyerere	9-Nov-09	Shallow well	5.01286	32.29042	1145	Milky	Tasteless	27.2	6.2	0.156	9.00
HP-1242	Urambo	Kiloleni	Kiloleni	Kiloleni A	9-Nov-09	Shallow well	5.01052	32.31057	1137	Clear	Little salty	26.4	6.3	0.230	19.41
HP-1244	Urambo	Kiloleni	Kiloleni	Kiloleni A	9-Nov-09	Shallow well	5.0232	32.32298	1131	Clear	Tasteless	26.5	6.5	0.120	32.00
HP-1246	Urambo	Kiloleni	Kiloleni	Kiloleni B	9-Nov-09	Shallow well	5.04969	32.33878	1132	Muddy	Tasteless	26.8	6.1	0.065	17.20
HP-1247	Urambo	Kiloleni	Kinhwa	Mapambano	9-Nov-09	Shallow well	5.04126	32.35703	1137	Clear	Tasteless	25.8	6.1	0.080	6.15
HP-1249	Urambo	Muungano	Kalemela A	Kati	14-Nov-09	Deep well	5.0003	32.05634	1135	Milky	Tasteless	25.6	5.6	0.152	20.00
HP-1250	Urambo	Muungano	Kalemela A	Kusini	14-Nov-09	Deep well	5.02838	32.03862	1113	Clear	Tasteless	26.3	5.9	0.125	26.50
HP-1253	Urambo	Muungano	Kalemela A	Magharibi B	14-Nov-09	Deep well	4.96775	32.0095	1121	Milky	Tasteless	26.6	5.8	0.100	14.70
HP-1254	Urambo	Muungano	Kalemela A	Magharibi B	14-Nov-09	Deep well	5.00216	32.03379	1129	Clear	Tasteless	26.9	6.2	0.115	70.20
HP-1256	Urambo	Muungano	Kalemela A	Mashariki A	14-Nov-09	Deep well	5.00714	32.05744	1144	Milky	Tasteless	26.8	6.2	0.147	16.70
HP-1257	Urambo	Muungano	Kalemela A	Mashariki A	14-Nov-09	Shallow well	4.95824	32.02345	1119	Milky	Tasteless	27.0	5.8	0.037	11.80
HP-1258	Urambo	Muungano	Kalemela A	Mashariki A	14-Nov-09	Deep well	5.01403	32.04673	1126	Clear	Taste of Iron	28.0	6.2	0.104	88.50
HP-1260	Urambo	Muungano	Kalemela A	Mashariki A	14-Nov-09	Shallow well	5.01934	32.05576	1129	Clear	Tasteless	28.0	6.3	0.150	28.00
HP-1261	Urambo	Muungano	Kalemela B	Mwangaza A	14-Nov-09	Deep well	5.01137	32.00478	1132	Clear	Salty	27.0	5.6	0.020	8.10
HP-1262	Urambo	Muungano	Kalemela B	Mwangaza A	14-Nov-09	Deep well	5.02158	32.00653	1136	Clear	Tasteless	27.3	5.7	0.072	8.80
HP-1263	Urambo	Muungano	Kalemela B	Mwangaza A	14-Nov-09	Shallow well	5.02276	31.99607	1138	Clear	Tasteless	26.5	6.3	0.230	21.00
HP-1267	Urambo	Muungano	Muungano	Mtakuja B	13-Nov-09	Deep well	5.03239	32.15257	1150	Clear	Salty	27.0	6.3	0.187	97.30
HP-1268	Urambo	Muungano	Muungano	Mtukula	13-Nov-09	Deep well	5.01254	32.1435	1152	Clear	Tasteless	26.7	6.1	0.155	22.10
HP-1271	Urambo	Muungano	Muungano	Uswahilini	13-Nov-09	Deep well	5.02758	32.12836	1145	Clear	Salty	26.5	6.2	0.240	107.00
HP-1275	Urambo	Mwongozo	Kanoge	Chemchemi	14-Nov-09	Deep well	4.78996	32.33037	1178	Clear	Fresh	26.8	6.8	0.400	4.60
HP-1276	Urambo	Mwongozo	Mwongozo	Kiloleni	14-Nov-09	Deep well	4.78084	32.38816	1126	Clear	Salty	26.5	7.2	0.800	23.00
HP-1279	Urambo	Mwongozo	Mwongozo	Milambo	14-Nov-09	Shallow well	4.80489	32.39802	1128	Clear	Fresh	27.0	6.3	ND	4.10
HP-1280	Urambo	Songambele	Igengensabo	Uyogo K	13-Nov-09	Deep well	4.84009	32.00701	1117	Clear	Little salty	26.7	5.9	0.290	52.80
HP-1281	Urambo	Songambele	Igengensabo	Uyogo K	13-Nov-09	Deep well	4.84074	32.03514	1093	Clear	Little salty	25.1	6.1	0.410	32.00
HP-1283	Urambo	Songambele	Igunguli	Maendeleo	13-Nov-09	Shallow well	4.79398	32.07731	1126	Clear	Salty	27.5	6.1	0.130	15.00
HP-1285	Urambo	Songambele	Igunguli	Majengo	13-Nov-09	Deep well	4.83034	32.07457	1107	Clear	Tasteless	26.1	5.9	0.110	15.00
HP-1286	Urambo	Songambele	Igunguli	Mapinduzi	13-Nov-09	Deep well	4.80304	32.13324	1124	Clear	Tasteless	26.8	6.5	0.095	10.30
HP-1287	Urambo	Songambele	Igunguli	Mapinduzi	13-Nov-09	Deep well	4.80181	32.1041	1128	Clear	Tasteless	27.2	6.1	0.120	8.90
HP-1288	Urambo	Songambele	Jionee mwenyewe	Farm 24	13-Nov-09	Deep well	4.91216	32.13364	1105	Clear	Tasteless	25.9	6.1	0.141	5.61
HP-1289	Urambo	Songambele	Jionee mwenyewe	Mazengo	13-Nov-09	Deep well	4.93332	32.16288	1096	Clear	Tasteless	26.2	5.8	0.132	5.01
HP-1290	Urambo	Songambele	Jionee mwenyewe	Mazengo	13-Nov-09	Deep well	4.93354	32.17392	1108	Clear	Tasteless	26.1	6.5	0.106	6.12
HP-1291	Urambo	Songambele	Jionee mwenyewe	Utulivu	13-Nov-09	Deep well	4.94883	32.14715	1112	Clear	Tasteless	25.6	5.4	0.141	6.92
HP-1292	Urambo	Songambele	Milambo	Wela	13-Nov-09	Deep well	4.75183	32.00926	1110	Clear	Salty	26.8	6.3	0.116	14.50
HP-1293	Urambo	Songambele	Mlangane	Mlangane	13-Nov-09	Deep well	4.91193	32.20734	1114	Milky	Tasteless	26.5	5.8	0.087	6.11
HP-1294	Urambo	Songambele	Mlangane	Mlangane	13-Nov-09	Shallow well	4.88688	32.21178	1102	Milky	Tasteless	25.8	5.8	0.132	8.25
HP-1295	Urambo	Songambele	Mlangane	Nyakabagwe	13-Nov-09	Shallow well	4.81669	32.18447	1119	Milky	Tasteless	26.2	5.4	0.055	5.40
HP-1296	Urambo	Songambele	Mlangane	Nyerere	13-Nov-09	Deep well	4.93815	32.16004	1113	Clear	Tasteless	26.2	5.8	0.153	5.19
HP-1297	Urambo	Songambele	Mlangane	Nyerere	13-Nov-09	Shallow well	4.94124	32.15529	1110	Clear	Tasteless	26.7	5.2	0.182	5.29
HP-1298	Urambo	Songambele	Mlangane	Ukwanga	13-Nov-09	Shallow well	4.86369	32.1895	1102	Milky	Tasteless	25.5	5.8	0.073	7.44
HP-1299	Urambo	Songambele	Songambele	Farm 21	13-Nov-09	Shallow well	4.90811	32.10626	1114	Clear	Salty	27.4	6.1	0.093	14.70
HP-1302	Urambo	Songambele	Songambele	Magharibi	13-Nov-09	Shallow well	4.94374	32.08268	1128	Clear	Little salty	26.9	6.6	0.200	76.50
HP-1304	Urambo	Songambele	Songambele	Mashariki	13-Nov-09	Deep well	4.93148	32.10853	1132	Clear	Tasteless	27.6	5.6	0.076	11.20
HP-1305	Urambo	Songambele	Songambele	Mtakuja	13-Nov-09	Deep well	4.90377	32.07618	1117	Milky	Tasteless	27.1	5.7	0.150	7.32
HP-1306	Urambo	Songambele	Songambele	Mtakuja	13-Nov-09	Shallow well	4.91496	32.09639	1117	Clear	Salty	27.8	6.4	0.210	37.50
HP-1307	Urambo	Songambele	Uyogo	Kasela	13-Nov-09	Deep well	4.92678	31.96707	1111	Clear	Little salty	25.4	5.4	0.330	39.20
HP-1308	Urambo	Songambele	Uyogo	Uyogo D	13-Nov-09	Deep well	4.92738	31.99759	1102	Clear	Tasteless	24.9	6.2	0.320	17.80
HP-1309	Urambo	Songambele	Uyogo	Uyogo D	13-Nov-09	Deep well	4.91909	31.97883	1100	Milky	Tasteless	25.6	6.5	0.280	43.40
HP-1310	Urambo	Songambele	Uyogo	Uyogo magharibi	13-Nov-09	Deep well	4.91463	32.01199	1093	Clear	Tasteless	24.9	5.8	0.170	9.80
HP-1311	Urambo	Songambele	Uyogo	Uyogo magharibi	13-Nov-09	Deep well	4.91608	32.01105	1091	Milky	Tasteless	24.1	5.6	0.046	5.40

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Urambo District (4/5)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-1312	Urambo	Songambele	Uyogo	Uyogo mashariki	13-Nov-09	Deep well	4.90531	32.03029	1108	Milky	Salty	26.1	5.9	0.350	18.90
HP-1313	Urambo	Songambele	Uyogo	Uyogo mashariki	13-Nov-09	Deep well	4.91918	32.03887	1106	Clear	Salty	25.9	6.3	0.570	27.20
HP-1315	Urambo	Ugunga	Limbula	Limbula A	3-Nov-09	Deep well	5.1218	31.74015	1068	Clear	Salty	27.1	5.9	0.400	52.40
HP-1316	Urambo	Ugunga	Limbula	Limbula B	3-Nov-09	Deep well	5.13782	31.71061	1072	Clear	Salty	27.6	5.9	0.210	67.00
HP-1317	Urambo	Ugunga	Tuombe Mungu	Kaskazini	3-Nov-09	Shallow well	5.0779	31.71419	1076	Clear	Salty	27.2	6.5	0.200	24.00
HP-1319	Urambo	Ugunga	Tuombe Mungu	Kusini	3-Nov-09	Deep well	5.09593	31.70686	1084	Clear	Salty	26.8	6.8	0.520	95.00
HP-1320	Urambo	Ugunga	Tuombe Mungu	Kusini	3-Nov-09	Shallow well	5.09801	31.70804	1082	Clear	Salty	27.4	7.2	0.110	72.00
HP-1321	Urambo	Ugunga	Ugunga	Ugunga Kijijini	3-Nov-09	Deep well	5.07027	31.75035	1081	Clear	Tasteless	27.8	5.8	0.600	92.00
HP-1328	Urambo	Ukondamoyo	Ifuta	Kiloleni	6-Nov-09	Deep well	5.17983	31.9305	1079	Clear	Tasteless	26.2	5.6	0.045	126.40
HP-1331	Urambo	Ukondamoyo	Ifuta	Utebe	6-Nov-09	Deep well	5.25141	31.9161	1071	Clear	Tasteless	26.0	5.8	0.052	132.00
HP-1333	Urambo	Ukondamoyo	Tumaini	Magereza	6-Nov-09	Shallow well	5.16469	32.03628	1100	Clear	Tasteless	25.2	5.6	0.056	13.00
HP-1335	Urambo	Ukondamoyo	Ukondamoyo	Farma 8	6-Nov-09	Deep well	5.15299	31.96062	1082	Clear	Tasteless	26.3	6.2	0.158	20.80
HP-1340	Urambo	Ukumbisiganga	Lumbe	Lumbe CCM	29-Oct-09	Deep well	5.50222	31.49831	1062	Clear	Tasteless	25.8	6.9	0.400	67.80
HP-1342	Urambo	Ukumbisiganga	Lumbe	Lumbe Station	29-Oct-09	Shallow well	5.49775	31.49302	1061	Turbid	Tasteless	26.1	6.2	0.200	12.30
HP-1343	Urambo	Ukumbisiganga	Lumbe	Lumbe Station	29-Oct-09	Shallow well	5.49732	31.49728	1061	Clear	Tasteless	26.3	6.7	0.300	18.70
HP-1349	Urambo	Ukumbisiganga	Ukumbisiganga	Mandela	29-Oct-09	Shallow well	5.484	31.52591	1069	Clear	Tasteless	25.8	5.8	0.200	12.28
HP-1350	Urambo	Ukumbisiganga	Ukumbisiganga	Mashariki	29-Oct-09	Shallow well	5.49361	31.52228	1067	Clear	Tasteless	25.9	5.9	0.210	10.38
HP-1352	Urambo	Ukumbisiganga	Ukumbisiganga	Shuleni	29-Oct-09	Shallow well	5.49674	31.51089	1077	Clear	Tasteless	25.5	5.8	0.141	10.87
HP-1356	Urambo	Ukumbisiganga	Usinga	Usinga Kilometa 78	29-Oct-09	Deep well	5.66717	31.28278	1117	Clear	Little Salty	25.6	6.3	0.300	65.70
HP-1363	Urambo	Urambo	Urambo Kati	Kati kusini	14-Nov-09	Deep well	5.06837	32.0666	1111	Clear	Salty	29.9	4.6	0.089	78.70
HP-1369	Urambo	Urambo	Urambo Magharibi	Magharibi kusini	14-Nov-09	Shallow well	5.06529	32.06309	1105	Clear	Salty	28.8	5.4	0.065	66.60
HP-1372	Urambo	Urambo	Urambo Mashariki	Urambo mama	14-Nov-09	Deep well	5.06838	32.08414	1110	Milky	Tasteless	27.3	6.2	0.127	13.50
HP-1379	Urambo	Ushokola	Isanjandugu	Isanjandugu Magharibi	31-Oct-09	Deep well	5.08132	31.82349	1078	Clear	Tasteless	26.2	6.4	0.400	24.80
HP-1380	Urambo	Ushokola	Pozamoyo	Nkolonkosho	31-Oct-09	Deep well	5.10118	31.78587	1096	Greyish	Salty	24.5	7.7	0.260	46.90
HP-1385	Urambo	Ushokola	Pozamoyo	Pozamoyo Mifugoni	31-Oct-09	Deep well	5.08479	31.79279	1084	Clear	Tasteless	24.3	6.5	0.165	31.20
HP-1386	Urambo	Ushokola	Ushokola	Kilometa 2	31-Oct-09	Deep well	5.06365	31.79314	1085	Clear	Little salty	25.2	8.4	0.610	89.00
HP-1388	Urambo	Ushokola	Usindi	Usindi Kati	31-Oct-09	Deep well	5.0855	31.84667	1079	Clear	Tasteless	25.1	5.8	0.172	28.70
HP-1389	Urambo	Usinge	Kombe	Kombe Kaskazini	2-Nov-09	Deep well	5.04605	31.53548	1083	Clear	Tasteless	26.5	6.1	0.194	11.20
HP-1392	Urambo	Usinge	Kombe	Kombe Kusini	2-Nov-09	Deep well	5.06316	31.53427	1082	Clear	Tasteless	26.7	6.7	0.110	18.40
HP-1396	Urambo	Usinge	Luganjo	Kiloleleni	2-Nov-09	Shallow well	5.14986	31.31123	1124	Milky	Clear	27.7	6.2	0.080	9.50
HP-1399	Urambo	Usinge	Usinge	Usinge Kati	2-Nov-09	Shallow well	5.10009	31.30222	1070	Clear	Salty	26.0	5.8	0.155	16.04
HP-1402	Urambo	Usinge	Usinge	Usinge Magharibi	2-Nov-09	Deep well	5.20592	31.21676	1069	Clear	Tasteless	26.6	6.3	0.360	28.40
HP-1404	Urambo	Usinge	Usinge	Usinge Mashariki	2-Nov-09	Shallow well	5.09282	31.30641	1075	Clear	Tasteless	26.4	5.4	0.043	3.30
HP-1417	Urambo	Ussoke	Itegamatwi	Ihega	10-Nov-09	Shallow well	5.15208	32.29681	1145	Milky	Tasteless	26.6	5.6	0.048	6.70
HP-1424	Urambo	Ussoke	Ussoke	Ussoke Kati	10-Nov-09	Deep well	5.09191	32.31385	1151	Clear	Tasteless	26.8	5.6	0.032	23.10
HP-1437	Urambo	Uyowa	Mwendakulima	Mwendakulima	13-Nov-09	Shallow well	4.58698	31.96793	1118	Clear	Fresh	26.5	6.3	0.400	6.30
HP-1440	Urambo	Uyowa	Nsungwa	Songambele	13-Nov-09	Shallow well	4.4769	32.00365	1117	Clear	Fresh	26.5	6.3	0.400	4.40
HP-1441	Urambo	Uyowa	Songambele	Mwenge	13-Nov-09	Deep well	4.59604	32.01733	1121	Clear	Fresh	26.5	6.8	0.400	4.50
HP-1442	Urambo	Uyowa	Songambele	Songambele	13-Nov-09	Deep well	4.58384	32.02382	1129	Clear	Fresh	26.5	6.3	ND	6.30
HP-1444	Urambo	Uyowa	Uhindini	Sheme	13-Nov-09	Deep well	4.5412	31.96002	1115	Clear	Fresh	26.8	6.8	0.400	4.50
HP-1446	Urambo	Uyowa	Uhindini	Uyowa	13-Nov-09	Deep well	4.55408	31.9679	1121	Clear	Salty	26.2	5.9	0.400	16.20
HP-1459	Urambo	Uyumbu	Nsogoko	Kalole	9-Nov-09	Deep well	5.22693	32.33732	1163	Clear	Tasteless	26.8	6.2	0.102	44.00
HP-1460	Urambo	Uyumbu	Nsogoko	Mkasiwa	9-Nov-09	Deep well	5.24124	32.34274	1162	Clear	Tasteless	26.7	5.7	0.192	62.46
HP-1461	Urambo	Uyumbu	Nsogoko	Mrema	9-Nov-09	Deep well	5.25147	32.34575	1154	Clear	Tasteless	27.5	5.8	0.086	11.50
HP-1462	Urambo	Uyumbu	Nsogoko	Tupendane	9-Nov-09	Deep well	5.30549	32.34477	1146	Milky	Tasteless	27.2	6.1	0.011	20.20
HP-1463	Urambo	Uyumbu	Usoke mlimani	Ichencha	9-Nov-09	Deep well	5.13849	32.34084	1149	Clear	Tasteless	27.0	6.4	0.162	42.00
HP-1464	Urambo	Uyumbu	Usoke mlimani	Milambo	9-Nov-09	Deep well	5.16649	32.35965	1162	Clear	Tasteless	27.1	6.5	0.360	30.10
HP-1465	Urambo	Uyumbu	Usoke mlimani	Mkwawa	9-Nov-09	Deep well	5.16947	32.35003	1157	Clear	Tasteless	26.7	6.4	0.110	16.80
HP-1466	Urambo	Uyumbu	Usoke mlimani	Misheni	9-Nov-09	Shallow well	5.17715	32.36308	1182	Clear	Tasteless	26.7	6.5	0.107	16.68

<Note> ND: Not Detected

Water Quality Test on the Field for Hand Pump in Urambo District (5/5)

Hand Pump ID	District /Municipality	Ward	Village /Street	Sub-Village /Street	Date of Sampling	Type of Water Source	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
HP-1467	Urambo	Uyumbu	Usoke mlimani	Misheni	9-Nov-09	Deep well	5.17691	32.3628	1184	Clear	Tasteless	26.9	6.2	0.110	22.40
HP-1470	Urambo	Uyumbu	Usoke mlimani	Simba	9-Nov-09	Deep well	5.19767	32.36992	1205	Clear	Tasteless	26.9	6.1	0.151	15.00
HP-1471	Urambo	Uyumbu	Yelayela	Kakola	9-Nov-09	Deep well	5.16078	32.33347	1150	Clear	Tasteless	26.8	6.8	0.192	14.00
HP-1472	Urambo	Uyumbu	Yelayela	Majengo	9-Nov-09	Deep well	5.1903	32.35538	1187	Clear	Salty	27.3	6.3	0.178	26.40
HP-1474	Urambo	Vumilia	Nkokoto	Nkokoto magharibi	31-Oct-09	Shallow well	5.09037	31.89901	1096	Clear	Tasteless	24.1	6.2	0.065	11.70
HP-1476	Urambo	Vumilia	Nkokoto	Nkokoto magharibi	31-Oct-09	Deep well	5.08932	31.89859	1095	Clear	Tasteless	24.3	6.5	0.280	41.80
HP-1477	Urambo	Vumilia	Nkokoto	Nkokoto magharibi	31-Oct-09	Shallow well	5.08754	31.89744	1095	Clear	Tasteless	24.5	6.8	0.190	32.40
HP-1478	Urambo	Vumilia	Nkokoto	Nkokoto magharibi	31-Oct-09	Shallow well	5.08636	31.89885	1095	Clear	Tasteless	24.8	6.5	0.400	52.10
HP-1479	Urambo	Vumilia	Nkokoto	Nkokoto magharibi	31-Oct-09	Shallow well	5.08756	31.90149	1094	Clear	Tasteless	24.9	5.9	0.360	22.40
HP-1480	Urambo	Vumilia	Uhuru	Uhuru	31-Oct-09	Shallow well	5.07107	31.88766	1102	Grey	Little salty	25.6	8.5	0.340	67.60
HP-1483	Urambo	Vumilia	Vumilia	Kati	5-Nov-09	Shallow well	5.06363	31.93474	1093	Clear	Salty	27.1	5.9	0.700	69.40
HP-1484	Urambo	Vumilia	Vumilia	Kati	5-Nov-09	Shallow well	5.06009	31.92029	1091	Milky	Tasteless	27.3	6.2	0.051	8.20
HP-1486	Urambo	Vumilia	Vumilia	Kati	5-Nov-09	Shallow well	5.06316	31.93432	1094	Clear	Salty	26.9	6.1	0.500	62.00

<Note> ND: Not Detected

Water Quality Test on the Field for Piped Water Supply Scheme (1/2)

Piped Water Supply Scheme No.	District	Ward	Village / Street	Covered Sub-Villages / Streets	Water Source Type	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
IgPW-01	Igunga	Choma	Chibiso	54 Chibiso 56 Mwankono	Shallow well	3.96095	33.34521	1094	Clear	Tasteless	31.0	7.9	2.70	89.00
IgPW-02	Igunga	Choma	Chomachankola	58 Ginnery 57 Chamalendi 62 Sokoni 63 Uswahilini 64 Zomadi	Deep well	3.98736	33.3575	1097	Clear	Slightly salty	29.7	8.1	8.50	260.00
IgPW-03	Igunga	Igunga	Isugilo	96 Benki 97 Kamando 98 Kati 99 Magharibi 100 Mashariki 101 Mwayunge 102 Nkokoto 103 Stoo ya Pamba	Bulenya Dam	4.29003	33.78698	1102	Yellowish	Tasteless	24.6	8.3	4.30	28.80
SkPW-01	Sikonge	Ipole	Udongo Makazi Ipole	45 Ilope Kasikzini 46 Ilope Kati 47 Ilope Kusini 48 Ipole Mashariki 52 Makazi 58 Udongo Kahakazini 59 Udongo Kusini 60 Udongo Mashariki	Protected Spring	5.76775	32.716	1113	Clear	Tasteless	26.9	5.2	0.06	9.40
SkPW-02	Sikonge	Kipanga Kiloleli	Ukondamoyo Lembeli Mtakuja Kanyamsenga Kiloleli Kipanga	64 Kanyamasenga Bondeni 65 Kanyamsenga Mlimani 66 Maweni A 67 Maweni B 68 Indara 69 Kiloleli A 70 Kiloleli B 71 Langwa 73 Mtakuja 74 Songambele 75 Tulieni 82 Imalampaka 83 Mdogondema 84 Mtakuja 85 Igagala 86 Lembeli 87 Mibono Mpya 92 Mkola 93 Ugawe	Dam	5.94385	32.9613	1116	Reddish	Salty	29.2	8.1	0.11	9.93
SkPW-04	Sikonge	Sikonge	Sikonge	180 Isungliunde 183 Madukani 184 Mazinge 185 Mbirani 186 Sikonge Mission 187 Ukanga 189 Usega 190 Usupilo A	Shallow well	5.61488	32.75214	1152	Clear	Salty	25.4	6.0	0.15	41.00

Water Quality Test on the Field for Piped Water Supply Scheme (2/2)

Piped Water Supply Scheme No.	District	Ward	Village /Street	Covered Sub-Villages /Streets	Water Source Type	Latitude	Longitude	Altitude (m)	Colour	Taste	Temperature (℃)	pH	Fluoride (mg/L)	EC (mS/m)
TrPW-02	Tabora Rural	Igalula	Igalula	74 Barazani 75 Igalula Stesheni 77 Mbalanga	Dam	5.19129	33.01762	1154	Milky	Tasteless	30.1	7.3	0.40	6.69
TrPW-05	Tabora Rural	Ilolangulu	Ilolangulu	132 Ilolangulu Mjini	Shallow well	5.10059	32.63755	1107	Clear	Tasteless	23.9	5.6	0.80	13.55
TrPW-07	Tabora Rural	Isikizya	Isikizya	179 Azimio	Protected Spring	4.84682	33.10564	1230	Milky	Tasteless	26.5	5.5	0.27	150.00
TrPW-11	Tabora Rural	Upuge	Upuge	447 Upuge A	Shallow well	4.91431	32.97912	1260	Milky	Salty	24.8	6.2	0.78	16.20
TuPW-02	Tabora Urban	Misha	Igambilo Itaga Misha	54 Igambilo kati 59 Ilobi 61 Kagera 62 Mapambano 74 Misha Kati	Dam	4.89759	32.71584	1139	Clear	Tasteless	28.4	6.7	0.43	10.44
UrPW-06	Urambo	Kashishi	Kashishi	123 Kashishi Magharibi 124 Kashishi Mashariki 127 Lisule 128 Ugundu	Protected Spring	4.36622	32.38776	1165	Turbid	Tasteless	25.5	5.7	0.12	73.60
UrPW-09	Urambo	Songambele	Jionee mwenyewe Mlangane	244 Farm 245 Mazengo 246 Utulivu 251 Mlangane 252 Nyakabagwe 253 Nyerere 254 Ukwanga	Deep well	4.91216	32.13364	1105	Clear	Tasteless	25.9	6.1	0.14	5.61
UrPW-13	Urambo	Ukondamoyo	Ukondamoyo	302 Farm 2 corner	Deep well	5.12205	32.0301	1107	Clear	Tasteless	27.7	6.4	0.11	62.00
UrPW-14	Urambo	Urambo	Urambo Kati Urambo Kusini Urambo Magharibi Urambo Mashariki	330 Kati kaskazini 331 Kati kusini 332 Tulieni 333 Block O 334 Boma Village 335 Mabatini 336 Matangi manne 337 Magharibi Kaskazi 338 Magharibi kusini 339 Seed farm 340 Urambo mjini 341 Kitega uchumi 342 Mwenge 343 Shimoni	Deep well	5.06808	32.06993	1115	Clear	Slightly Salty	23.7	7.1	0.33	58.00
UrPW-15	Urambo	Usisya	Usisya	407 Usisya kati	Unprotected Spring	5.10029	32.23132	1111	Milky	Tasteless	24.4	6.2	0.09	12.40
UrPW-17	Urambo	Ussoke	Ussoke	422 Ussoke sokoni	Deep well	5.10125	32.33014	1103	Clear	Tasteless	27.4	6.1	0.05	33.00

Results of the Water Quality Analyses in the Laboratory (1/4)

Hand Pump ID / PWSS No.	Districct	Ward	Village	Sub-Village	Source Type	Latitude	Longitude	Sampling Date	pH	EC (mS/m)	Temp (℃)	Bacteria CFU/100ml	E.. Coli CFU/100ml	Lead (mg/l)	As (mg/L)	Cd (mg/L)	F (mg/L)
Detection Limits												**0**	**0**	**0.01**	**0.001**	**0.001**	**0.001**
HP-24	Igunga	Igoweko	Uswaya	Mwakunuha	Deep Well	-4.67470	33.52219	26-Dec-09	8.23	46.35	27.00	0	0	ND	ND	ND	5.000
HP-39	Igunga	Itumba	Lugubu	Lugubu	Shallow Well	-4.55522	33.87362	29-Dec-09	8.34	31.86	26.00	9	0	ND	ND	ND	1.170
HP-51	Igunga	Mwisi	Isenegeja	Isenegeja Mjini Magharibi	Shallow Well	-4.52457	33.44086	26-Dec-09	7.34	16.76	26.00	0	0	ND	ND	ND	2.350
HP-78	Igunga	Simbo	Simbo	Busomeke	Deep Well	-4.65556	33.43042	26-Dec-09	7.40	31.76	25.00	460	9	ND	ND	ND	2.500
HP-90	Igunga	Sungwizi	Sungwizi	Ikulu	Shallow Well	-4.45826	33.51771	26-Dec-09	8.31	114.59	24.00	9	0	ND	ND	ND	4.160
IgPW-01	Igunga	Choma	Managed by Chibiso Water Supply		Tap Water	-3.94105	33.36151	28-Dec-09	8.63	78.55	28.00	0	0	ND	ND	ND	2.000
IgPW-01	Igunga	Choma	Chibiso	Mwankono	Shallow Well	-3.96095	33.34521	28-Dec-09	8.31	80.39	28.00	15	0	ND	ND	ND	1.890
IgPW-02	Igunga	Choma	Chomachankola	Uswahilini	Deep Well 1	-4.02369	33.34821	28-Dec-09	8.65	111.44	26.00	0	0	ND	ND	ND	3.240
IgPW-02	Igunga	Choma	Chomachankola	Zomadi	Deep Well 2	-3.98736	33.35750	28-Dec-09	8.55	986.70	26.00	0	0	ND	ND	ND	5.200
IgPW-03	Igunga	Managed by IGUWASA			Bulenya Dam	-4.28929	33.78814	29-Dec-09	8.08	16.76	29.00	43	0	ND	ND	ND	2.500
IgPW-03	Igunga	Igunga	Managed by IGUWASA		Tap Water	-4.28311	33.88192	29-Dec-09	8.22	19.84	27.50	0	0	ND	ND	ND	1.550
IgPW-04	Igunga	Igurubi	Igurubi	Bugwandege	Deep Well	-3.96095	33.34521	29-Dec-09	8.65	165.49	28.00	0	0	ND	ND	ND	3.980
IgPW-09	Igunga	Nkinga	Nkinga	Ugayang'ombe	Tank 1	-4.41971	33.47937	26-Dec-09	8.23	65.43	22.00	0	0	ND	ND	ND	2.720
IgPW-09	Igunga	Nkinga	Nkinga	Igalula	Tank 2	-4.40557	33.43714	26-Dec-09	8.48	19.21	23.00	0	0	ND	ND	ND	3.500
IgPW-11	Igunga	Ziba	Ziba	Bulyambuli	Deep Well	-4.25573	33.41169	28-Dec-09	9.00	125.93	23.00	0	0	ND	ND	ND	4.900
HP-105	Nzega	Budushi	Budushi	Uswahilini	Deep Well	-4.79036	33.33170	22-Dec-09	8.22	88.55	29.00	0	0	ND	ND	ND	0.110
HP-128	Nzega	Igusule	Sojo	Sojo Mpya	Deep Well	-3.94063	32.85178	23-Dec-09	7.98	94.72	29.00	23	0	ND	ND	ND	0.020
HP-381	Nzega	Mambali	Mbutu	Nasa	Deep Well	-4.37190	32.80751	23-Dec-09	7.52	68.12	28.00	240	0	ND	ND	ND	1.200
HP-401	Nzega	Mbogwe	Mbogwe	Mwanubiila	Deep Well	-4.14496	33.26336	24-Dec-09	8.44	34.57	26.20	0	0	ND	ND	ND	0.800
HP-471	Nzega	Mwakashanhala	Kigandu	Kalumwa	Deep Well	-4.66072	32.98898	22-Dec-09	7.50	36.36	28.00	43	0	ND	ND	ND	0.710
HP-531	Nzega	Mwangoye	Mwaguguli	Mwakisenga	Deep Well	-4.05717	33.02831	23-Dec-09	8.05	18.53	28.00	23	0	ND	ND	ND	0.320
HP-542	Nzega	Nata	Kabale	Kabale	Deep Well	-4.01580	33.16580	23-Dec-09	7.89	64.08	28.00	23	0	ND	ND	ND	0.500
HP-567	Nzega	Nzega Mjini	Nzega Mjini	Kachoma	Deep Well	-4.22284	33.19148	24-Dec-09	8.14	76.89	26.00	23	0	ND	ND	ND	0.420
HP-587	Nzega	Puge	Upungu	Upungu Magharibi	Deep Well	-4.72822	33.16848	22-Dec-09	7.60	21.75	28.00	23	0	ND	ND	ND	0.010
NzPW-07	Nzega	Managed by NZUWASA			Uchama Dam	-4.19470	33.17805	23-Dec-09	7.70	97.86	26.60	0	0	ND	ND	ND	0.200
NzPW-07	Nzega	Managed by NZUWASA			Kilimi Dam	-4.13639	33.23320	24-Dec-09	8.17	134.34	25.00	9	0	ND	ND	ND	0.080
NzPW-07	Nzega	Nzega Mjini	Managed by NZUWASA		Tap Water	-4.21609	33.18724	24-Dec-09	7.79	27.26	26.00	N/A	N/A	ND	ND	ND	0.490
HP-676	Sikonge	Chabutwa	Chabutwa	Chabutwa	Deep Well	-5.69293	32.75064	16-Dec-09	8.44	51.07	26.00	4600	150	ND	ND	ND	0.496
HP-692	Sikonge	Igigwa	Igigwa	Barazani	Shallow Well	-5.37894	32.79105	16-Dec-09	7.44	33.12	26.00	2100	43	ND	ND	ND	0.600
HP-694	Sikonge	Igigwa	Igigwa	Nyakahunga	Shallow Well	-5.41802	32.78498	16-Dec-09	8.10	25.65	25.00	93	0	ND	ND	ND	0.500
HP-695	Sikonge	Igigwa	Igigwa	Wankolongo	Deep Well	-5.35077	32.77816	16-Dec-09	7.18	7.58	28.00	240	9	ND	ND	ND	0.600
HP-716	Sikonge	Kipanga	Lembeli	Lembeli	Deep Well	-5.83858	32.90657	17-Dec-09	8.39	50.39	30.00	0	0	ND	ND	ND	0.600
HP-720	Sikonge	Kipanga	Ukondamoyo	Ukondamoyo	Deep Well	-5.80056	32.88279	17-Dec-09	8.13	83.61	28.00	20	4	ND	ND	ND	0.681
HP-724	Sikonge	Kipili	Kilumbi	Mkola No. 4	Deep Well	-6.29620	33.84733	15-Dec-09	8.33	71.92	24.00	9	0	ND	ND	ND	0.400
HP-726	Sikonge	Kipili	Kilumbi	Mkola No. 4	Deep Well	-6.29771	33.84673	15-Dec-09	7.64	17.92	24.00	0	0	ND	ND	ND	0.330
HP-756	Sikonge	Sikonge	Kisanga	Chang'ombe	Deep Well	-5.55940	32.81600	16-Dec-09	7.62	75.86	24.20	930	75	ND	ND	ND	0.550
HP-757	Sikonge	Sikonge	Kisanga	Kisanga Kati	Shallow Well	-5.55908	32.84063	16-Dec-09	7.91	20.31	25.80	460	43	ND	ND	ND	0.890
HP-788	Sikonge	Tutuo	Mole	Kiloleni A	Deep Well	-5.44950	32.62111	16-Dec-09	6.70	7.60	28.00	0	0	ND	ND	ND	0.410
SkPW-01	Sikonge	Ipole	Managed by Ipole Water Supply		Tap Water	-5.76761	32.71609	17-Dec-09	7.15	12.35	28.00	0	0	ND	ND	ND	0.600
SkPW-01	Sikonge	Ipole	Makazi	Chabutwa	Protected Spring	-5.76761	32.71609	17-Dec-09	7.62	17.86	28.00	0	0	ND	ND	ND	0.800
SkPW-04	Sikonge	Managed by SUWASA			Utyatya Dam	-5.60281	32.86046	17-Dec-09	7.20	20.20	28.00	0	0	ND	ND	ND	0.500
SkPW-04	Sikonge	Sikonge	Managed by SUWASA		Tap Water	-5.62600	32.75290	16-Dec-09	7.37	22.41	27.50	0	0	ND	ND	ND	0.600
HP-804	Tabora Rural	Goweko	Nsololo	Kanala	Deep Well	-5.55890	33.14870	11-Dec-09	8.18	120.45	22.00	0	0	ND	ND	ND	0.320
HP-811	Tabora Rural	Ibiri	Ibiri	Kategile	Deep Well	-4.92687	32.59554	12-Dec-09	7.67	43.72	28.50	0	0	ND	ND	ND	0.010
HP-876	Tabora Rural	Isikizya	Igoko	Igoko Senta	Deep Well	-4.82347	33.13180	12-Dec-09	7.95	43.94	26.20	4	0	ND	ND	ND	0.990
HP-881	Tabora Rural	Isikizya	Ilalwasimba	Ihala	Deep Well	-4.80032	33.11219	12-Dec-09	7.94	123.50	26.00	0	0	ND	ND	ND	1.135
HP-953	Tabora Rural	Ufuluma	Chessa	Uzyungula	Deep Well	-4.93539	32.43251	12-Dec-09	6.45	15.53	28.00	4	0	ND	ND	ND	0.950
HP-964	Tabora Rural	Ufuluma	Ugowola	Ugowola B	Deep Well	-4.96490	32.35015	12-Dec-09	6.40	13.16	26.00	15	0	ND	ND	ND	0.800
HP-971	Tabora Rural	Upuge	Mhogwe	Mhogwe A	Deep Well	-4.87705	33.04002	12-Dec-09	7.26	6.62	24.00	0	0	ND	ND	ND	0.740
HP-974	Tabora Rural	Upuge	Uhuru Mbiti	Uhuru Mbiti B	Deep Well	-4.85338	32.95442	12-Dec-09	8.13	51.89	28.00	0	0	ND	ND	ND	ND
TrPW-02	Tabora Rural	Managed by Igalula Water Supply			Charco Dam	-5.18938	33.01684	11-Dec-09	7.41	8.19	24.00	460	43	ND	ND	ND	0.010

<Note> N/A: Not Available, ND: Not Detected, N/O: Not Objectionable, O: Objectionable, PWSS: Piped Water Supply Scheme

Results of the Water Quality Analyses in the Laboratory (2/4)

Hand Pump ID / PWSS No.	Districct	NO_3 (mg/L)	NO_2 (mg/L)	NH_4 (mg/L)	Color (TCU)	Turbidity (NTU)	TDS (mg/L)	Total Hardness (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl^- (mg/L)	Fe (mg/L)	Mn (mg/L)	Cu (mg/L)	Zn (mg/L)	Taste	Odor	Residual Clorine (mg/L)
Detection Limits		**0.01**	**0.01**	**0.001**	**-**	**0.00**	**-**	**1.00**	**0.01**	**0.01**	**0.01**	**0.01**	**1.00**	**0.10**	**1.00**	**0.01**	**0.01**	**0.01**	**0.01**	**-**	**-**	**0.01**
HP-24	Igunga	ND	ND	ND	0.00	0.21	300.00	137.40	55.03	15.18	104.66	1.58	189.10	3.00	71.96	ND	ND	ND	ND	N/O	N/O	N/A
HP-39	Igunga	ND	0.04	ND	9.11	26.30	136.00	51.92	20.79	5.83	45.44	4.00	134.20	20.00	77.99	1.13	ND	ND	ND	N/O	N/O	N/A
HP-51	Igunga	ND	0.21	ND	8.22	592.00	296.00	24.42	9.78	6.40	17.60	9.76	61.00	51.00	10.99	10.56	0.06	ND	1.49	O	O	N/A
HP-78	Igunga	100.00	ND	ND	0.00	0.18	324.00	3.05	1.22	5.32	63.03	5.66	36.60	8.00	26.59	ND	ND	ND	ND	N/O	N/O	N/A
HP-90	Igunga	ND	ND	ND	0.00	0.96	720.00	73.29	29.35	11.52	287.88	0.73	628.30	20.00	43.96	ND	ND	ND	ND	N/O	N/O	N/A
IgPW-01	Igunga	ND	ND	ND	0.00	1.00	788.00	36.66	14.68	4.71	192.37	1.80	195.20	220.00	27.30	ND	ND	ND	ND	N/O	N/O	N/A
IgPW-01	Igunga	ND	0.01	ND	5.12	3.72	820.00	36.68	14.69	4.84	188.13	1.64	305.00	170.00	26.94	ND	ND	ND	ND	N/O	N/O	N/A
IgPW-02	Igunga	ND	ND	ND	0.00	0.64	580.00	85.51	34.24	9.13	265.63	3.65	329.40	55.00	65.23	ND	ND	ND	ND	N/O	N/O	N/A
IgPW-02	Igunga	ND	ND	ND	0.00	0.53	2060.00	27.49	11.01	13.91	827.13	6.81	884.50	70.00	63.81	ND	ND	ND	ND	N/O	N/O	N/A
IgPW-03	Igunga	ND	ND	ND	0.02	74.90	180.00	45.80	18.34	2.89	19.66	3.46	122.00	16.00	4.61	2.60	0.01	ND	ND	O	O	N/A
IgPW-03	Igunga	ND	ND	ND	6.77	340.00	280.00	53.44	21.40	2.62	19.41	3.07	122.00	42.00	5.67	1.48	ND	ND	ND	N/O	N/O	N/A
IgPW-04	Igunga	ND	ND	ND	0.00	0.59	1484.00	16.81	6.73	1.17	474.77	5.10	585.60	200.00	95.36	ND	ND	ND	ND	N/O	N/O	N/A
IgPW-09	Igunga	ND	ND	ND	0.00	0.57	270.00	44.28	17.73	2.77	48.70	9.89	146.30	25.00	4.61	ND	ND	ND	ND	N/O	N/O	N/A
IgPW-09	Igunga	ND	ND	ND	0.00	4.90	324.00	125.20	50.14	19.05	99.63	2.35	408.70	3.00	9.57	ND	ND	ND	1.67	N/O	N/O	N/A
IgPW-11	Igunga	ND	ND	ND	0.00	0.64	876.00	42.75	17.12	26.73	342.41	6.07	439.20	33.00	29.07	ND	ND	ND	ND	N/O	N/O	N/A
HP-105	Nzega	ND	ND	ND	0.02	3.64	820.00	224.50	89.89	26.56	77.98	4.16	311.10	13.00	74.44	ND	ND	ND	ND	N/O	N/O	N/A
HP-128	Nzega	ND	ND	ND	0.00	0.10	410.00	175.60	70.32	5.85	69.94	0.14	317.20	ND	28.36	ND	ND	ND	ND	N/O	N/O	N/A
HP-381	Nzega	ND	ND	ND	0.00	0.66	270.00	93.15	37.30	8.14	31.22	0.87	183.00	1.00	22.69	0.26	0.03	ND	ND	N/O	N/O	N/A
HP-401	Nzega	ND	ND	ND	0.00	0.35	476.00	99.27	39.75	15.70	235.81	ND	551.10	56.00	12.41	ND	ND	ND	ND	N/O	N/O	N/A
HP-471	Nzega	ND	ND	ND	32.11	432.00	1220.00	13.73	5.50	4.47	38.46	7.78	97.50	240.00	17.02	39.53	0.06	ND	ND	N/O	N/O	N/A
HP-531	Nzega	49.80	ND	ND	0.00	0.40	400.00	187.80	75.21	13.39	48.09	0.68	262.30	34.00	22.69	ND	ND	ND	ND	N/O	N/O	N/A
HP-542	Nzega	ND	ND	ND	0.00	0.12	480.00	137.40	55.03	14.87	167.64	0.62	500.20	ND	41.48	ND	0.02	ND	ND	N/O	N/O	N/A
HP-567	Nzega	ND	ND	ND	0.00	1.36	864.00	116.00	46.47	23.52	289.51	0.67	573.40	38.00	74.44	ND	ND	ND	ND	N/O	N/O	N/A
HP-587	Nzega	ND	ND	ND	18.20	6.54	440.00	171.00	68.49	19.79	124.56	2.28	367.00	20.00	63.46	0.01	0.06	ND	ND	N/O	O	N/A
NzPW-07	Nzega	ND	ND	ND	0.02	1.45	184.00	24.42	9.78	3.06	30.14	6.26	128.10	5.00	7.44	0.14	0.04	ND	ND	O	O	N/A
NzPW-07	Nzega	ND	ND	ND	11.12	6.57	238.00	54.99	22.01	5.95	53.62	4.04	176.90	6.00	13.83	ND	0.01	ND	ND	N/O	N/O	N/A
NzPW-07	Nzega	ND	ND	ND	0.00	0.91	110.00	33.59	13.45	4.43	37.99	5.74	12.20	30.00	11.70	ND	ND	ND	ND	N/O	N/O	0.52
HP-676	Sikonge	ND	ND	ND	31.19	4.45	300.00	103.80	41.58	18.71	36.90	6.07	280.70	9.00	26.94	0.25	ND	0.25	ND	N/O	N/O	N/A
HP-692	Sikonge	7.40	ND	ND	0.00	0.47	150.00	54.96	22.01	4.56	30.38	3.32	91.50	24.00	18.43	ND	ND	ND	ND	N/O	N/O	N/A
HP-694	Sikonge	ND	ND	ND	0.00	20.30	352.00	80.94	32.41	5.51	8.32	2.26	14.30	11.00	9.93	0.44	ND	0.45	ND	N/O	N/O	N/A
HP-695	Sikonge	2.80	ND	ND	440.24	52.10	188.00	9.16	3.67	1.09	8.23	0.81	18.30	22.00	14.18	0.71	ND	0.71	ND	N/O	N/O	N/A
HP-716	Sikonge	ND	ND	ND	0.00	0.12	408.00	131.30	52.57	12.46	46.89	2.87	280.50	1.00	17.02	ND	ND	ND	0.20	N/O	N/O	N/A
HP-720	Sikonge	4.90	ND	ND	0.00	0.21	412.00	198.50	79.49	11.37	92.47	6.78	256.20	37.00	40.41	ND	ND	ND	0.03	N/O	N/O	N/A
HP-724	Sikonge	ND	ND	0.002	0.00	ND	552.00	229.00	91.72	19.41	44.89	2.11	378.20	2.00	46.44	ND	ND	ND	0.14	N/O	N/O	N/A
HP-726	Sikonge	ND	ND	ND	420.00	589.00	640.00	42.75	17.12	3.09	13.90	5.62	73.20	170.00	11.70	0.67	ND	0.67	ND	O	O	N/A
HP-756	Sikonge	3.70	ND	ND	39.00	0.58	490.00	169.90	64.82	20.05	70.19	3.18	329.10	1.00	48.92	ND	ND	ND	O	N/O	N/A
HP-757	Sikonge	2.20	0.03	ND	495.20	61.90	150.00	30.54	12.23	1.67	11.32	3.45	109.80	21.00	10.64	1.72	ND	1.72	0.06	O	N/O	N/A
HP-788	Sikonge	ND	ND	ND	312.00	23.90	116.00	6.12	2.45	ND	8.76	1.28	24.40	10.00	24.11	0.12	ND	0.12	ND	N/O	N/O	N/A
SkPW-01	Sikonge	ND	ND	ND	0.00	23.20	80.00	12.21	4.89	1.05	13.32	0.88	12.20	20.00	15.24	0.90	0.02	ND	0.07	N/O	N/O	N/A
SkPW-01	Sikonge	18.80	ND	ND	22.34	20.80	184.00	45.80	18.34	1.42	10.99	1.05	24.50	12.00	15.60	0.50	ND	0.50	0.33	N/O	N/O	N/A
SkPW-04	Sikonge	2.30	ND	ND	0.00	7.01	268.00	21.38	8.56	1.39	27.82	5.20	97.90	6.00	36.87	0.70	ND	0.70	0.01	O	O	N/A
SkPW-04	Sikonge	ND	ND	ND	13.12	4.06	160.00	24.42	9.78	1.99	29.80	6.43	103.70	6.00	10.63	0.01	ND	ND	ND	N/O	N/O	N/A
HP-804	Tabora Rural	ND	ND	ND	0.00	0.75	736.00	216.80	86.83	20.37	192.94	4.33	390.50	5.00	129.70	ND	ND	0.01	0.03	N/O	N/O	N/A
HP-811	Tabora Rural	ND	ND	ND	0.00	0.12	428.00	90.10	36.08	25.63	23.74	5.70	170.80	4.00	36.51	0.04	ND	ND	0.02	N/O	N/O	N/A
HP-876	Tabora Rural	ND	ND	ND	40.11	13.30	160.00	51.92	20.79	5.19	81.35	3.01	268.40	3.00	12.41	1.12	ND	ND	0.02	N/O	N/O	N/A
HP-881	Tabora Rural	ND	ND	ND	0.00	0.16	2464.00	532.90	213.40	68.10	457.03	6.09	244.00	ND	198.50	ND	ND	0.01	0.04	N/O	N/O	N/A
HP-953	Tabora Rural	ND	ND	ND	0.00	1.47	140.00	9.19	3.68	2.01	21.13	0.57	36.70	1.00	22.33	ND	ND	ND	0.02	N/O	N/O	N/A
HP-964	Tabora Rural	ND	ND	ND	0.00	5.12	160.00	6.12	2.45	0.94	21.76	0.34	12.20	2.00	18.22	ND	ND	ND	0.03	N/O	N/O	N/A
HP-971	Tabora Rural	ND	ND	ND	33.34	36.20	120.00	3.05	1.22	0.80	8.85	1.45	36.70	16.00	6.38	1.66	ND	0.01	0.03	N/O	N/O	N/A
HP-974	Tabora Rural	ND	ND	ND	0.00	0.65	1208.88	58.04	23.24	7.62	862.88	8.15	256.20	2.00	28.71	ND	ND	0.11	0.29	N/O	N/O	N/A
TrPW-02	Tabora Rural	ND	ND	0.003	34.50	178.00	328.00	15.26	6.11	3.43	10.03	4.30	36.60	53.00	5.67	10.75	ND	0.05	0.09	N/O	N/O	N/A

<Note> N/A: Not Available, ND: Not Detected, N/O: Not Objectionable, O: Objectionable, PWSS: Piped Water Supply Scheme

Results of the Water Quality Analyses in the Laboratory (3/4)

Hand Pump ID / PWSS No.	Districct	Ward	Village	Sub-Village	Source Type	Latitude	Longitude	Sampling Date	pH	EC (mS/m)	Temp (℃)	Bacteria CFU/100ml	E. Coli CFU/100ml	Lead (mg/l)	As (mg/L)	Cd (mg/L)	F (mg/L)
Detection Limits												**0**	**0**	**0.01**	**0.001**	**0.001**	**0.001**
TrPW-02	Tabora Rural	Igalula	Managed by Igalula Water Supply		Tap Water	-5.18938	33.01684	11-Dec-09	5.20	8.11	27.00	0	0	ND	ND	ND	0.260
TrPW-04	Tabora Rural	Igalula	Kigwa B	Majengo	Shallow Well	-5.12164	33.11998	11-Dec-09	6.74	10.29	26.00	9	0	ND	ND	ND	ND
TrPW-04	Tabora Rural	Igalula	Managed by Kigwa B Water Supply		Tap Water	-5.12164	33.11998	11-Dec-09	7.30	10.97	26.50	9	0	ND	ND	ND	0.692
TrPW-05	Tabora Rural	Ilolangulu	Ilolangulu	Ilolangulu Mjini	Shallow Well	-5.10059	32.63755	12-Dec-09	7.14	11.07	27.00	43	0	ND	ND	ND	0.010
TrPW-05	Tabora Rural	Ilolangulu	Managed by Ilolangulu Water Supply		Tap Water	-5.07380	32.69257	12-Dec-09	7.33	14.64	27.40	93	93	ND	ND	ND	0.310
TrPW-05	Tabora Rural	Ilolangulu	Ilolangulu	Ilolangulu Mjini	Deep Well	-5.10039	32.63768	12-Dec-09	8.25	24.61	26.00	0	0	ND	ND	ND	0.900
TrPW-11	Tabora Rural	Upuge	Upuge	Upuge A	Deep Well	-4.91448	32.97903	12-Dec-09	7.71	33.34	22.00	23	9	ND	ND	ND	0.660
TrPW-11	Tabora Rural	Upuge	Managed by Upuge Water Supply		Tap Water	-4.72822	33.16848	12-Dec-09	8.11	36.92	26.00	0	0	ND	ND	ND	0.700
HP-1009	Tabora Urban	Itetemia	Lusangi	Igombanilo	Deep Well	-5.15472	32.75761	9-Dec-09	7.74	13.83	28.30	1500	93	ND	ND	ND	ND
HP-1011	Tabora Urban	Itetemia	Lusangi	kikundi	Deep Well	-5.14615	32.74447	9-Dec-09	7.36	147.20	27.40	930	23	ND	ND	ND	ND
HP-1016	Tabora Urban	Itetemia	Lusangi	Tiara	Deep Well	-5.15487	32.72577	9-Dec-09	6.49	11.40	30.00	23	9	ND	ND	ND	ND
HP-1046	Tabora Urban	Kalunde	Kalunde	Msangi	Deep Well	-4.95734	32.66961	14-Dec-09	6.87	11.69	23.11	4300	15	ND	ND	ND	0.500
HP-1044	Tabora Urban	Kalunde	Kalunde	Block farm	Deep Well	-4.91509	32.65255	14-Dec-09	7.05	14.30	27.00	9	0	ND	ND	ND	0.660
-	Tabora Urban	Malolo	Mtakuja	Malolo	Deep Well	-5.03145	32.75738	9-Dec-09	7.90	42.28	29.00	4	0	ND	ND	ND	ND
HP-1051	Tabora Urban	Kalunde	Ulamba	Iwonga	Deep Well	-5.00258	32.74822	9-Dec-09	6.99	11.48	29.00	0	0	ND	ND	ND	ND
HP-1053	Tabora Urban	Kalunde	Ulamba	Upimbili	Deep Well	-4.99318	32.75680	9-Dec-09	7.42	14.79	26.80	15	4	ND	ND	ND	0.900
HP-1057	Tabora Urban	Misha	Masagala	Masagala Kati	Deep Well	-4.93456	32.80143	10-Dec-09	7.92	84.57	30.00	0	0	ND	ND	ND	1.340
HP-1058	Tabora Urban	Misha	Masagala	Tumbi	Deep Well	-4.91504	32.79809	10-Dec-09	8.08	5.26	29.00	0	0	ND	ND	ND	2.000
TuPW-01	Tabora Urban	Kanyenye	Managed by TUWASA		Tap Water	-5.02387	32.80682	9-Dec-09	7.44	10.64	28.00	0	0	ND	ND	ND	0.521
TuPW-01	Tabora Urban	Managed by TUWASA			Kazima Dam	-5.03177	32.81885	8-Dec-09	6.55	24.95	30.00	9	4	ND	ND	ND	ND
TuPW-02	Tabora Urban	Managed by TUWASA			Igombe Dam	-4.89563	32.71430	10-Dec-09	7.16	11.22	30.20	0	0	ND	ND	ND	ND
TuPW-02	Tabora Urban	Misha	Managed by Misha Water Supply		Tap Water	-4.91297	32.76290	14-Dec-09	7.25	12.10	20.14	0	0	ND	ND	ND	0.440
HP-1103	Urambo	Itundu	Itundu	Barabarani	Deep Well	-5.08297	32.15909	20-Dec-09	8.02	69.02	30.00	0	0	ND	ND	ND	0.970
HP-1235	Urambo	Kazaroho	Usimba	Usimba B	Deep Well	-5.01016	31.92042	18-Dec-09	7.67	96.52	27.00	0	0	ND	ND	ND	0.440
HP-1249	Urambo	Muungano	Kalemela A	Kati	Deep Well	-4.99690	32.05308	20-Dec-09	7.69	17.38	28.20	0	0	ND	ND	ND	0.550
HP-1271	Urambo	Muungano	Muungano	Uswahilini	Deep Well	-5.02755	32.12843	19-Dec-09	7.76	97.08	26.00	0	0	ND	ND	ND	0.600
HP-1297	Urambo	Songambele	Mlangane	Nyerere	Shallow Well	-4.94120	32.15533	19-Dec-09	7.01	3.73	27.50	9	4	ND	ND	ND	0.600
HP-1302	Urambo	Songambele	Songambele	Magharibi	Deep Well	-4.94265	32.10410	19-Dec-09	8.22	30.19	26.00	21	15	ND	ND	ND	0.574
HP-1321	Urambo	Ugunga	Ugunga	Ugunga Kijijini	Deep Well	-5.07032	31.75034	18-Dec-09	8.28	36.25	27.50	0	0	ND	ND	ND	0.300
HP-1388	Urambo	Ushokola	Usindi	Usindi Kati	Deep Well	-5.08551	31.84672	18-Dec-09	8.05	33.33	26.00	93	9	ND	ND	ND	0.500
UrPW-06	Urambo	Kashishi	Managed by Kashishi Water Supply		Spring Water	-4.36622	32.38778	19-Dec-09	7.39	6.59	27.80	43	9	ND	ND	ND	0.382
UrPW-06	Urambo	Kashishi	Managed by Kashishi Water Supply		Tap Water	-4.38044	32.38309	19-Dec-09	7.89	13.24	28.00	0	0	ND	ND	ND	0.400
UrPW-14	Urambo	Urambo	Managed by UUWASA		Tap Water 1	-5.06619	32.07131	20-Dec-09	7.67	28.87	29.00	0	0	ND	ND	ND	1.110
UrPW-14	Urambo	Urambo	Managed by UUWASA		Tap Water 2	-5.08453	32.07153	20-Dec-09	8.31	34.39	30.00	0	0	ND	ND	ND	1.020
UrPW-15	Urambo	Usisya	Managed by UUWASA		Spring Water	-5.10029	32.23132	20-Dec-09	7.52	10.31	28.30	75	23	ND	ND	ND	0.440
UrPW-17	Urambo	Ussoke	Maneged by Ussoke Water Supply		Deep Well	-5.10130	32.33018	20-Dec-09	7.29	14.50	25.00	1100	150	ND	ND	ND	0.620
UrPW-17	Urambo	Ussoke	Maneged by Ussoke Water Supply		Tank	-5.10014	32.32201	20-Dec-09	7.47	85.55	25.30	23	0	ND	ND	ND	0.010
UrPW-19	Urambo	Ussoke	Maneged by Ussoke Water Supply		Tank	-5.17258	32.35883	20-Dec-09	8.18	18.27	28.20	0	0	ND	ND	ND	0.650
UrPW-19	Urambo	Maneged by Ussoke Water Supply			Dam	-5.16363	32.35948	20-Dec-09	7.82	10.42	25.00	0	0	ND	ND	ND	0.650

<Note> N/A: Not Available, ND: Not Detected, N/O: Not Objectionable, O: Objectionable, PWSS: Piped Water Supply Scheme

Results of the Water Quality Analyses in the Laboratory (4/4)

Hand Pump ID / PWSS No.	Districct	NO_3 (mg/L)	NO_2 (mg/L)	NH_4 (mg/L)	Color (TCU)	Turbidity (NTU)	TDS (mg/L)	Total Hardness (mg/L)	Ca (mg/L)	Mg (mg/L)	Na (mg/L)	K (mg/L)	HCO3 (mg/L)	SO4 (mg/L)	Cl^- (mg/L)	Fe (mg/L)	Mn (mg/L)	Cu (mg/L)	Zn (mg/L)	Taste	Odor	Residual Clorine (mg/L)
Detection Limits		**0.01**	**0.01**	**0.001**	**-**	**0.00**	**-**	**1.00**	**0.01**	**0.01**	**0.01**	**0.01**	**1.00**	**0.10**	**1.00**	**0.01**	**0.01**	**0.01**	**0.01**	**-**	**-**	**0.01**
TrPW-02	Tabora Rural	ND	ND	ND	4.35	176.00	2114.00	3.05	1.22	2.82	9.93	4.57	823.50	120.00	44.10	18.10	0.03	0.03	ND	N/O	N/O	N/A
TrPW-04	Tabora Rural	2.60	ND	ND	67.82	304.00	740.00	1.52	0.61	1.71	18.14	3.21	18.40	150.00	13.83	9.25	ND	ND	0.06	N/O	N/O	N/A
TrPW-04	Tabora Rural	ND	ND	ND	10.02	271.00	167.00	7.64	3.06	1.23	19.00	3.24	30.50	84.00	32.00	18.06	ND	ND	0.39	N/O	N/O	N/A
TrPW-05	Tabora Rural	ND	ND	ND	0.00	30.90	132.00	6.12	2.45	1.46	16.63	0.81	24.40	13.00	12.05	1.19	ND	0.01	0.04	N/O	N/O	N/A
TrPW-05	Tabora Rural	1.10	ND	ND	434.50	55.00	76.00	21.38	8.55	1.61	15.78	1.02	24.90	20.00	14.89	0.89	ND	0.89	0.23	N/O	N/O	0.31
TrPW-05	Tabora Rural	ND	ND	ND	0.00	26.30	130.00	76.34	30.57	2.06	16.20	0.36	91.50	12.00	32.60	1.84	ND	ND	ND	N/O	N/O	N/A
TrPW-11	Tabora Rural	0.60	ND	ND	20.11	73.50	400.00	21.38	8.56	4.06	49.19	25.93	85.70	43.00	31.55	1.92	ND	ND	0.04	N/O	N/O	N/A
TrPW-11	Tabora Rural	ND	ND	ND	13.13	73.10	305.00	15.26	6.11	4.46	51.07	23.83	122.00	96.00	31.55	2.32	ND	ND	ND	N/O	N/O	N/A
HP-1009	Tabora Urban	ND	ND	ND	60.21	67.40	460.00	10.69	4.28	1.43	19.46	4.44	61.00	26.00	9.93	3.15	ND	ND	0.03	N/O	N/O	N/A
HP-1011	Tabora Urban	1.50	ND	ND	0.00	198.00	1204.00	7.64	3.06	2.16	21.00	6.66	48.80	61.00	12.76	7.13	ND	0.04	0.08	N/O	N/O	N/A
HP-1016	Tabora Urban	ND	ND	ND	0.00	42.90	142.00	6.12	2.45	0.12	23.64	2.07	24.40	32.00	15.95	1.96	ND	0.02	0.02	N/O	N/O	N/A
HP-1046	Tabora Urban	ND	ND	ND	0.00	28.40	212.00	3.05	1.22	0.46	14.56	1.44	24.30	12.00	22.69	0.68	ND	0.68	ND	N/O	N/O	N/A
HP-1044	Tabora Urban	0.20	ND	ND	12.11	17.40	55.00	7.64	3.06	0.91	16.19	1.09	12.20	8.00	20.21	0.32	ND	0.32	ND	N/O	N/O	N/A
-	Tabora Urban	ND	ND	ND	0.00	0.31	368.00	80.94	32.41	15.83	26.83	6.87	146.40	1.00	41.55	ND	0.01	0.01	0.03	O	N/O	N/A
HP-1051	Tabora Urban	0.70	ND	ND	83.20	335.00	512.00	7.64	3.06	1.51	17.74	3.71	24.50	170.00	12.34	8.93	ND	0.02	0.06	N/O	N/O	N/A
HP-1053	Tabora Urban	ND	ND	ND	98.40	186.00	400.00	9.16	3.67	1.71	22.00	4.36	61.10	60.00	14.89	6.30	0.01	0.02	0.08	N/O	N/O	N/A
HP-1057	Tabora Urban	ND	ND	ND	0.00	ND	748.00	206.10	82.55	27.51	63.84	4.09	280.60	20.00	88.63	ND	ND	ND	0.02	O	N/O	N/A
HP-1058	Tabora Urban	ND	ND	ND	0.00	1.58	400.00	65.65	26.29	5.69	91.04	1.95	231.80	14.00	30.84	0.76	ND	ND	0.04	N/O	N/O	N/A
TuPW-01	Tabora Urban	ND	ND	ND	0.00	0.48	98.00	24.42	9.78	1.85	6.62	2.63	61.80	16.00	4.96	ND	ND	ND	ND	N/O	N/O	0.12
TuPW-01	Tabora Urban	0.30	ND	ND	76.11	108.00	488.00	16.81	6.73	2.49	36.06	13.00	79.30	35.00	16.66	9.06	ND	0.02	0.05	O	N/O	N/A
TuPW-02	Tabora Urban	ND	ND	ND	0.00	0.88	85.00	19.85	7.95	2.61	7.22	2.85	48.90	10.00	4.25	0.04	ND	ND	0.02	O	N/O	N/A
TuPW-02	Tabora Urban	ND	ND	ND	0.00	0.18	212.00	27.49	11.01	2.60	5.01	2.47	61.00	32.00	10.99	ND	ND	ND	ND	N/O	N/O	N/A
HP-1103	Urambo	ND	ND	ND	0.00	1.00	380.00	183.20	73.38	34.90	46.16	5.44	292.70	2.00	54.59	ND	ND	ND	ND	N/O	N/O	N/A
HP-1235	Urambo	ND	ND	ND	0.00	0.32	940.00	193.90	77.66	47.20	46.77	5.74	134.10	4.00	142.90	ND	ND	ND	ND	N/O	N/O	N/A
HP-1249	Urambo	ND	ND	ND	208.25	24.50	520.00	13.73	5.50	2.31	25.05	0.63	54.80	17.00	17.72	0.24	ND	0.24	0.02	N/O	N/O	N/A
HP-1271	Urambo	ND	ND	ND	0.00	0.29	600.00	190.90	76.44	44.05	75.25	3.22	298.90	2.00	106.40	ND	ND	ND	ND	N/O	N/O	N/A
HP-1297	Urambo	ND	ND	ND	224.46	26.10	560.00	4.57	1.83	ND	2.64	0.50	36.50	11.00	17.72	0.21	ND	0.21	ND	N/O	N/O	N/A
HP-1302	Urambo	ND	ND	ND	0.00	4.31	192.00	79.41	31.80	9.46	19.45	8.39	183.00	2.00	9.22	0.05	ND	0.05	ND	N/O	N/O	N/A
HP-1321	Urambo	ND	ND	ND	0.00	0.68	200.00	7.12	2.85	7.42	27.60	1.99	134.20	1.00	28.71	ND	ND	ND	ND	N/O	N/O	N/A
HP-1388	Urambo	ND	ND	ND	0.00	0.28	200.00	64.13	25.68	19.93	16.50	1.63	158.60	2.00	18.79	0.39	ND	0.38	0.02	N/O	N/O	N/A
UrPW-06	Urambo	ND	ND	ND	303.58	35.30	70.00	6.12	2.45	ND	9.17	1.28	36.70	17.00	10.64	0.80	ND	0.80	ND	N/O	N/O	N/A
UrPW-06	Urambo	ND	ND	ND	235.20	29.40	140.00	36.66	14.68	0.71	10.14	0.99	85.40	13.00	7.80	1.14	ND	1.14	0.06	N/O	N/O	N/A
UrPW-14	Urambo	ND	ND	ND	0.00	0.18	105.00	68.72	27.52	5.72	17.73	8.14	48.80	8.00	17.37	ND	ND	ND	0.06	N/O	N/O	N/A
UrPW-14	Urambo	ND	ND	ND	0.00	0.98	228.00	56.51	22.63	17.72	28.27	1.90	91.50	5.00	28.71	ND	ND	ND	0.18	N/O	N/O	N/A
UrPW-15	Urambo	ND	0.02	ND	797.72	223.00	144.00	15.26	6.11	2.12	7.04	3.65	61.00	140.00	10.99	1.72	ND	1.72	0.14	N/O	N/O	N/A
UrPW-17	Urambo	ND	ND	ND	17.11	188.00	212.00	33.59	13.45	2.84	12.28	2.69	48.90	57.00	11.34	0.14	ND	0.14	ND	O	O	N/A
UrPW-17	Urambo	ND	0.33	ND	13.12	26.70	752.00	21.38	8.54	2.50	10.95	2.59	54.90	120.00	14.53	0.64	ND	0.64	ND	N/O	N/O	N/A
UrPW-19	Urambo	ND	ND	ND	188.34	21.90	320.00	73.29	29.35	3.24	6.29	5.14	122.00	17.00	17.02	2.53	ND	2.53	0.02	O	O	N/A
UrPW-19	Urambo	ND	ND	ND	436.90	51.40	220.00	21.38	8.56	2.26	7.11	4.26	54.90	23.00	10.28	2.12	ND	2.12	ND	N/O	N/O	N/A

<Note> N/A: Not Available, ND: Not Detected, N/O: Not Objectionable, O: Objectionable, PWSS: Piped Water Supply Scheme

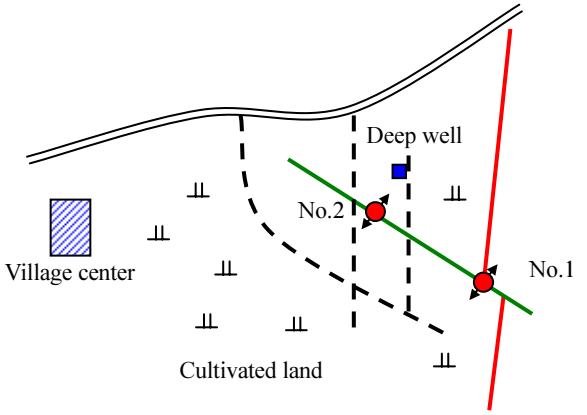
Data Book D

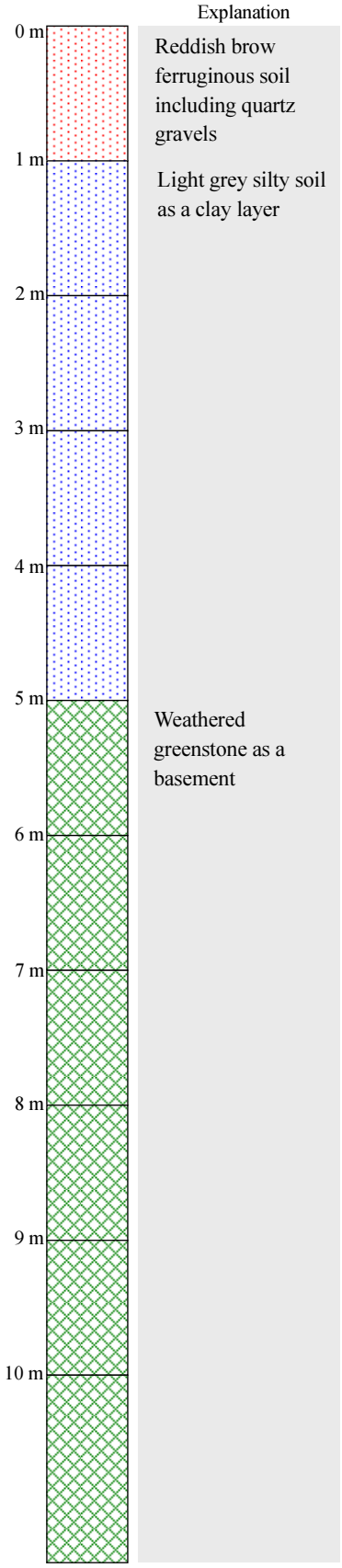
Hydrogeological Field Survey Data

Check list of Hydrogeological Features (Isanga village)

Date	10 June, 2010		
Name	Mr/s Yamakawa, Yabuta and Chikarabhani		
Area name	Isanga		
Coordination	Longitude	S04°03'13.9"	Way point 03
	Latitude	E33°11'53.7"	
	Altitude	1,140 m	
Landscape	Form	valley slope [ridge]	
	Vegetation	thick thin [sparse] none, tree grass	
	Land owner	(Cultivated area)	
Geology	Rock name	Greenstone	Sample No. -
	Characteristics	blocky, gneissose (no outcrop)	
	Soil colour	black [brown] red yellow grey white	
	Soil type	[fine] medium coarse ( )	
	Clay layer	[yes] no (thickness 4 m < at stream)	
	Saprocrust	strong weak (thickness - m)	
Fractures	Strike and dip	unknown	
	Scale	large medium [small]	
	Characteristics	not observed at surface	
Water	level	(unknown) m bellow the surface	
	Other characteristics	Hand-pump 58 m deep located in vicinity	
Geometry	Distance from road	500 m to a main road	
	Water available	[yes] no ( )	
	Other characteristics	-	
Geophysical survey	Possibility	[high] medium low	
	Point and direction	point No. 1 in NE-SW and point No. 2 in NE-SW	
	Other characteristics	Gold mine nearby	
Photo No.	01 - 07		

Sketch

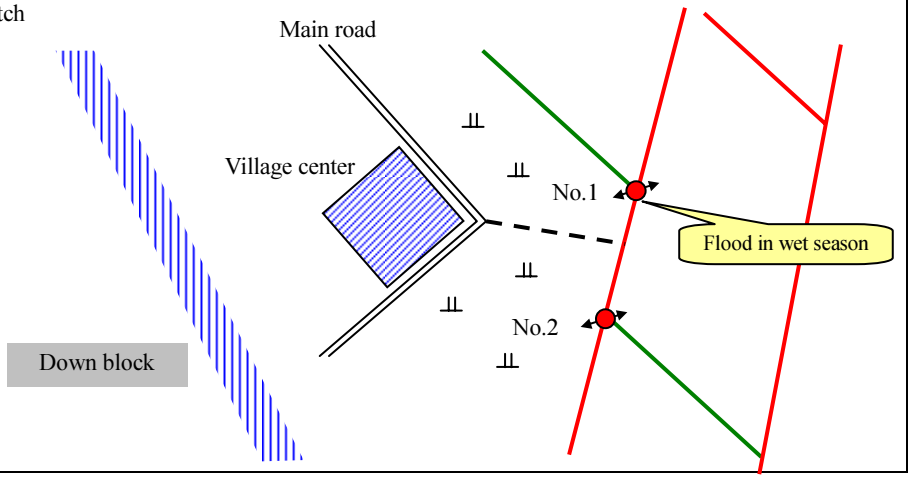


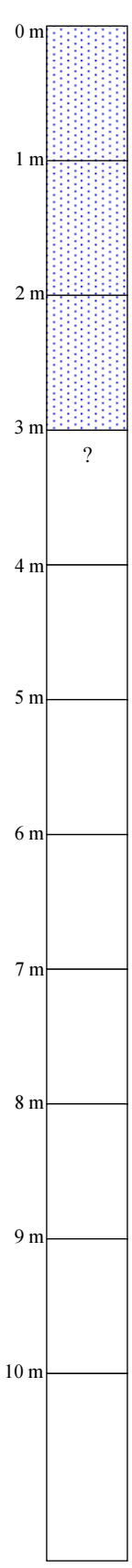


Check list of Hydrogeological Features (Usunga village)

Date	11 June, 2010		
Name	Mr/s Yamakawa, Yabuta and Chikarabhani		
Area name	Usunga		
Coordination	Longitude	S05o42'14.0"	Way point 010
	Latitude	E32o56'25.4"	
	Altitude	1,202 m	
Landscape	Form	valley slope [ridge]	
	Vegetation	thick thin [sparse] none, tree grass	
	Land owner	(cultivated land mainly paddy field)	
Geology	Rock name	unknown	Sample No. -
	Characteristics	blocky, gneissose (Gneiss)	
	Soil colour	black brown red yellow [grey] white	
	Soil type	[fine] medium coarse ( )	
	Clay layer	[yes] no (thickness over 2 m)	
	Saprocrust	strong weak (thickness - m)	
Fractures	Strike and dip	not clear at surface	
	Scale	[large] medium small	
	Characteristics	fractures developed very well	
Water	level	4 m bellow the surface	
	Other characteristics	Shallow in the east	
Geometry	Distance from road	300 m from main road	
	Water available	[yes] no ( )	
	Other characteristics		
Geophysical survey	Possibility	[high] medium low	
	Point and direction	point No. 1 in ENE-WSW and point No. 2 in ENE-WSW	
	Other characteristics	flood in wet season	
Photo No.	10 - 16		

Sketch





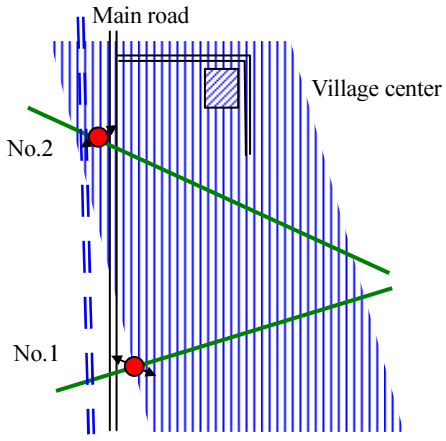
Explanation

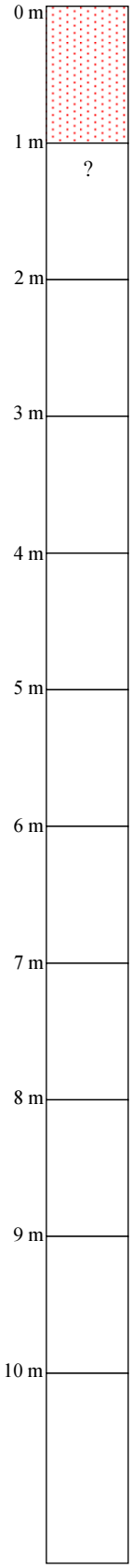
Light grey silty soil as a clay layer

Check list of Hydrogeological Features (Mpombwe village)

Date	11 June, 2010		
Name	Mr/s Yamakawa, Yabuta and Chikarabhani		
Area name	Mpombwe		
Coordination	Longitude	S04°03'18.3"	Way point 008
	Latitude	E33°12'00.3"	
	Altitude	1,170 m	
Landscape	Form	valley slope **ridge**	
	Vegetation	thick thin **sparse** none, tree grass	
	Land owner	(cultivated land)	
Geology	Rock name	no outcrop	Sample No. -
	Characteristics	blocky, gneissose (Basement granite)	
	Soil colour	black **brown** red yellow grey white	
	Soil type	fine **medium** coarse ( )	
	Clay layer	yes **no** (thickness m)	
	Saprocrust	strong **weak** (thickness m)	
Fractures	Strike and dip	not observed	
	Scale	**large** medium small	
	Characteristics	intersection between lineaments and dykes in major fault zone	
Water	level	5.0 m bellow the surface	
	Other characteristics	hand-pump nearby (shallow in the east)	
Geometry	Distance from road	5,000 m	
	Water available	yes **no** ( )	
	Other characteristics		
Geophysical survey	Possibility	**high** medium low	
	Point and direction	point No. 1 in NW-SE and point No. 2 in NE-SW	
	Other characteristics		
Photo No.	8, 9		

Sketch





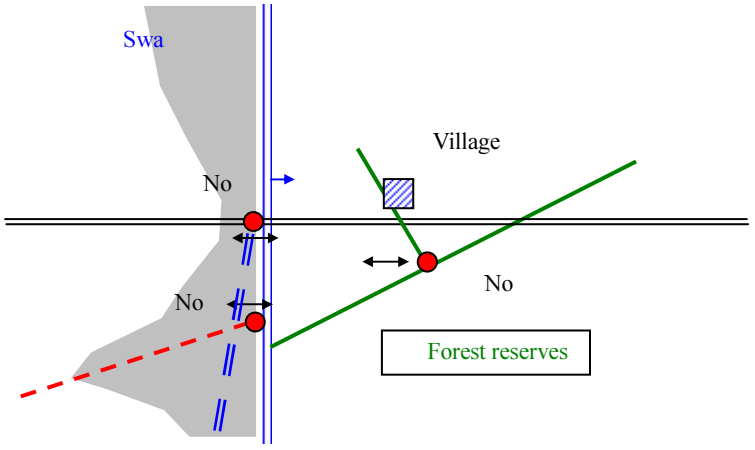
Explanation

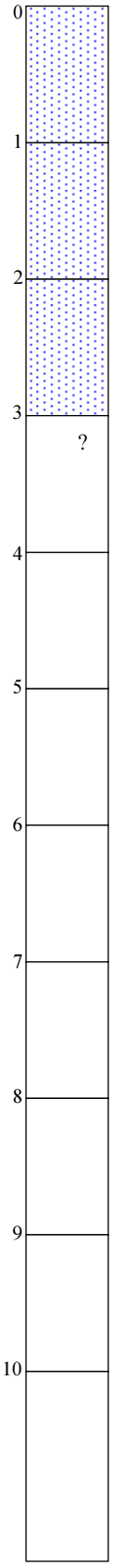
Brow ferruginous soil

Check list of Hydrogeological Features (Mpumbuli village)

Date	28 June, 2010		
Name	Mr/s Yamakawa, Yamasaki and Misango		
Area name	Mpumbuli		
Coordination	Longitude	S05°22'27.9"	Way point 038
	Latitude	E32°41'11.5"	
	Altitude		
Landscape	Form	valley **slope** ridge	
	Vegetation	**thick** thin sparse none, tree grass	
	Land owner	(forest reserves partially)	
Geology	Rock name	unknown	Sample No. -
	Characteristics	blocky, gneissose (Granite)	
	Soil colour	black brown red yellow **grey** white	
	Soil type	**fine** medium coarse ( )	
	Clay layer	**yes** no (thickness unknown m)	
	Saprocrust	strong weak (thickness - m)	
Fractures	Strike and dip	Not clear at surface but major fault trending N-S and dipping east judging from regional geology	
	Scale	**large** medium small	
	Characteristics	Showing swamp at surface	
Water	level	Unknown m bellow the surface	
	Other characteristics	Water exists in the stream	
Geometry	Distance from road	0 m along the main road	
	Water available	**yes** no ( )	
	Other characteristics		
Geophysical survey	Possibility	**high** medium low	
	Point and direction	point No.1 in N-S direction and No.2 in the same	
	Other characteristics	Flood in wet season, no access road to No. 3	
Photo No.	20 - 24		

Sketch





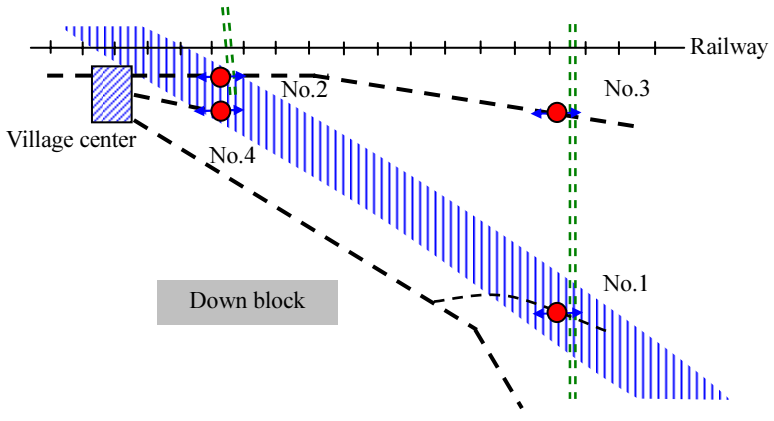
Explanation

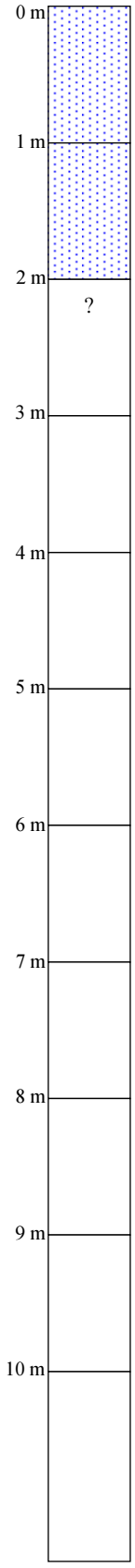
Light grey silty soil as a clay layer

Check list of Hydrogeological Features (Mabama village

Date	13 June, 2010		
Name	Mr/s Yamakawa, Yabuta and Chikarabhani		
Area name	Mabama		
Coordination	Longitude	S05°42'21.2"	Way point 016
	Latitude	E32°56'13.1"	
	Altitude	1,150 m	
Landscape	Form	valley **slope** ridge	
	Vegetation	**thick** thin sparse none, tree grass	
	Land owner	(natural forest)	
Geology	Rock name	unknown	Sample No. -
	Characteristics	blocky, gneissose (Basement granite)	
	Soil colour	black brown red yellow grey white	
	Soil type	**fine** medium coarse ( )	
	Clay layer	**yes** no (thickness unknown m)	
	Saprocrust	strong weak (thickness none m)	
Fractures	Strike and dip	not observed at surface	
	Scale	**large** medium small	
	Characteristics	Intersection between major fault and interpreted dykes	
Water	level	1.5 – 5.0 mbellow the surface	
	Other characteristics	shallow in the west	
Geometry	Distance from road	1,500 m	
	Water available	**yes** no ( )	
	Other characteristics	natural forest but no bush at surface	
Geophysical survey	Possibility	**high** medium low	
	Point and direction	point No. 1 in E-W, point No. 2 in E-W, point No. 3 in E-W and point No. 4 in E-W	
	Other characteristics		
Photo No.	17 – 20, 23		

Sketch





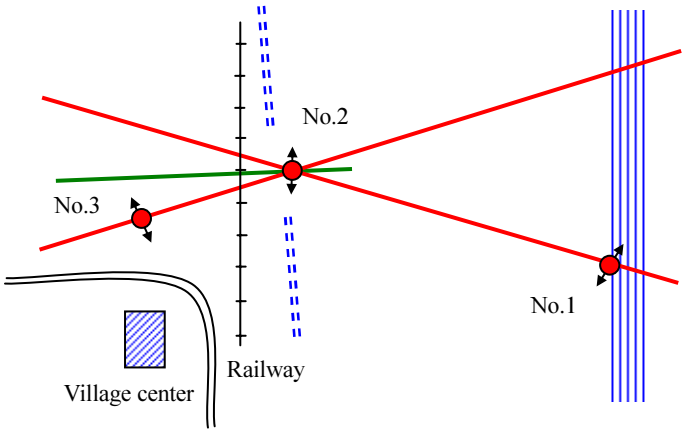
Explanation

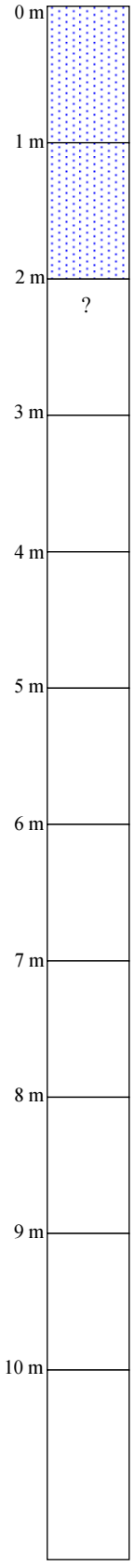
Light grey silty soil as a clay layer

Check list of Hydrogeological Features (Kakola village)

Date	13 June, 2010		
Name	Mr/s Yamakawa, Yabuta and Chikarabhani		
Area name	Kakola		
Coordination	Longitude	S04°52'02.2"	Way point 018
	Latitude	E32°49'45.3"	
	Altitude	1,190 m	
Landscape	Form	valley slope [ridge (as overall)]	
	Vegetation	thick thin [sparse] none, tree grass	
	Land owner	(Paddy field)	
Geology	Rock name	No outcrop	Sample No. -
	Characteristics	[blocky], gneissose (Basement granite)	
	Soil colour	black brown red yellow [grey] white	
	Soil type	[fine] medium coarse ( )	
	Clay layer	[yes] no (thickness unknown m)	
	Saprocrust	strong weak (thickness none m)	
Fractures	Strike and dip	unknown	
	Scale	[large] medium small	
	Characteristics	Intersection between major fault and lineament	
Water	level	1.5 m bellow the surface	
	Other characteristics	much water at surface	
Geometry	Distance from road	less than 2,000 m	
	Water available	[yes] no ( )	
	Other characteristics		
Geophysical survey	Possibility	[high] medium low	
	Point and direction	point No. 1 in NE-SW, point No.2 in N-S and point No. 3 in NNW-SSE	
	Other characteristics		
Photo No.	24 - 32		

Sketch





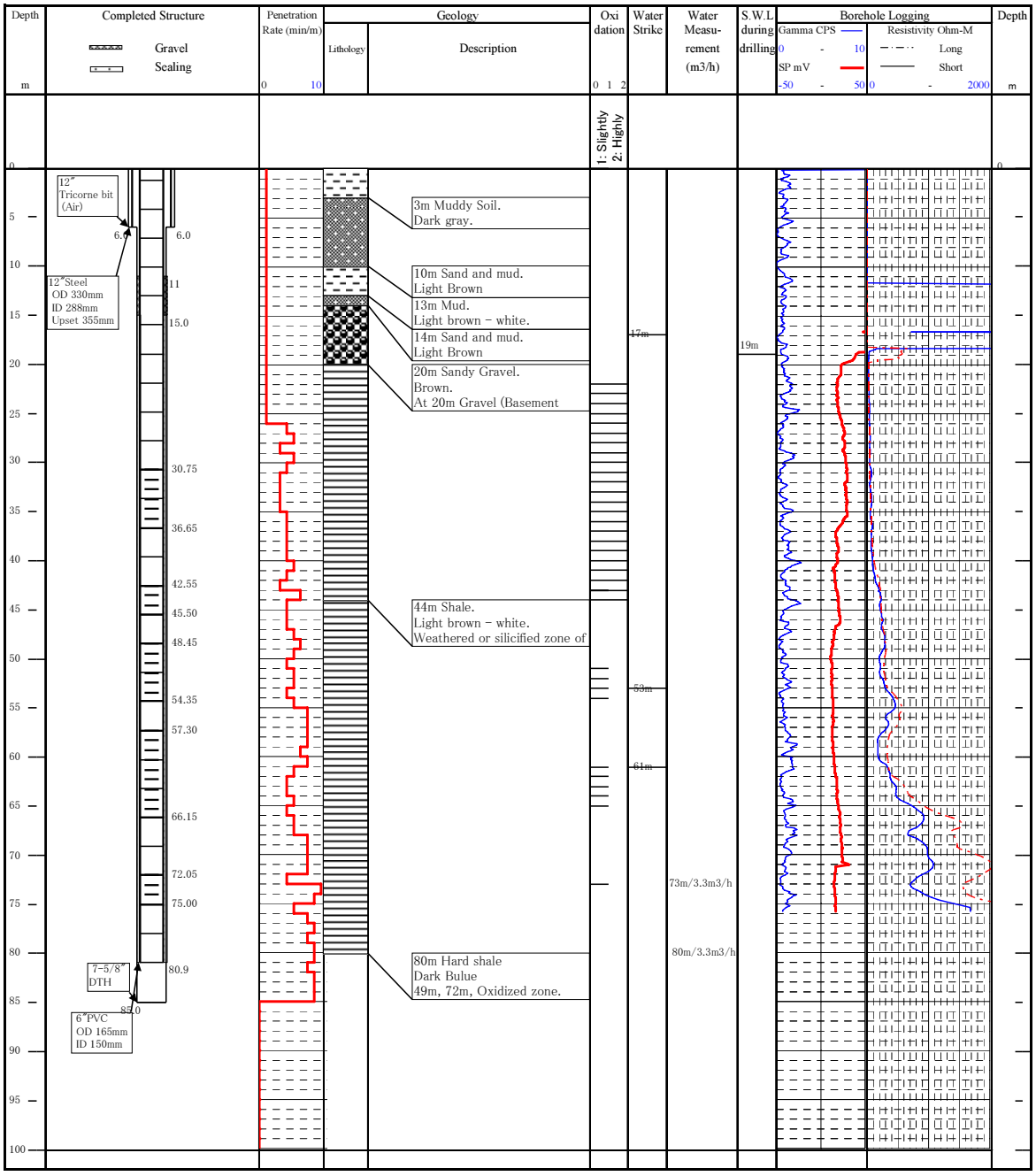
Explanation

Light grey silty soil as a clay layer

Data Book E

Test Well Drilling Data

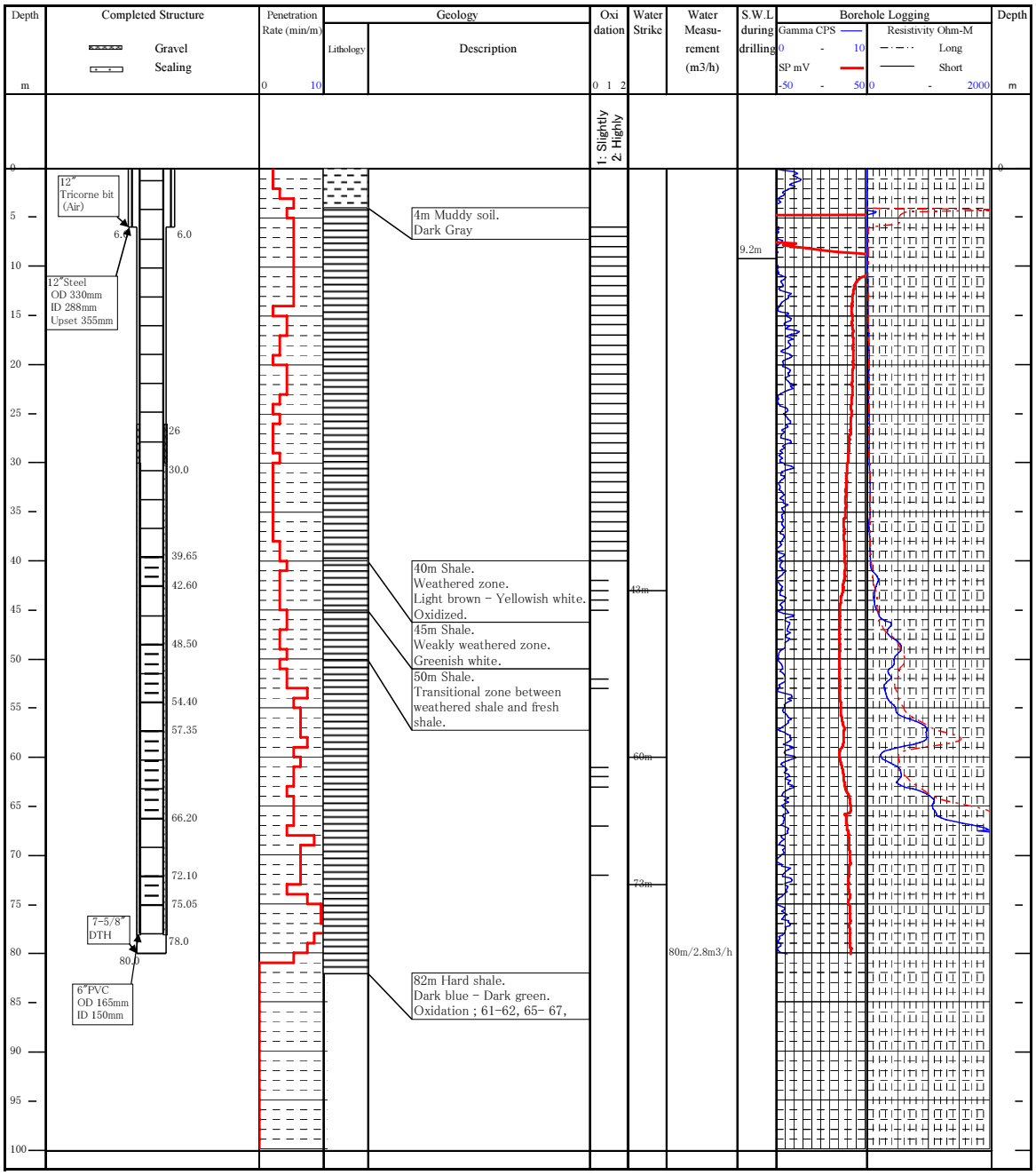
Drilling No.	NZ-047BH1	Registration No.	672/2010	Date of Commencement	24-Sep-10
Village	Isanga	GPS Coordinates (Arc1960):		Date of Completion	27-Sep-10
Ward	Lusu	X	Y	Contractor	DDCA
District/Municipality	Nzega	36M0523911	9550830	Rig Sankyo	Drille Tito



E.1 Drilling report of Isanga(BH1), Nzega District

The Study on Rural Water Supply in Tabora Region | **JICA**

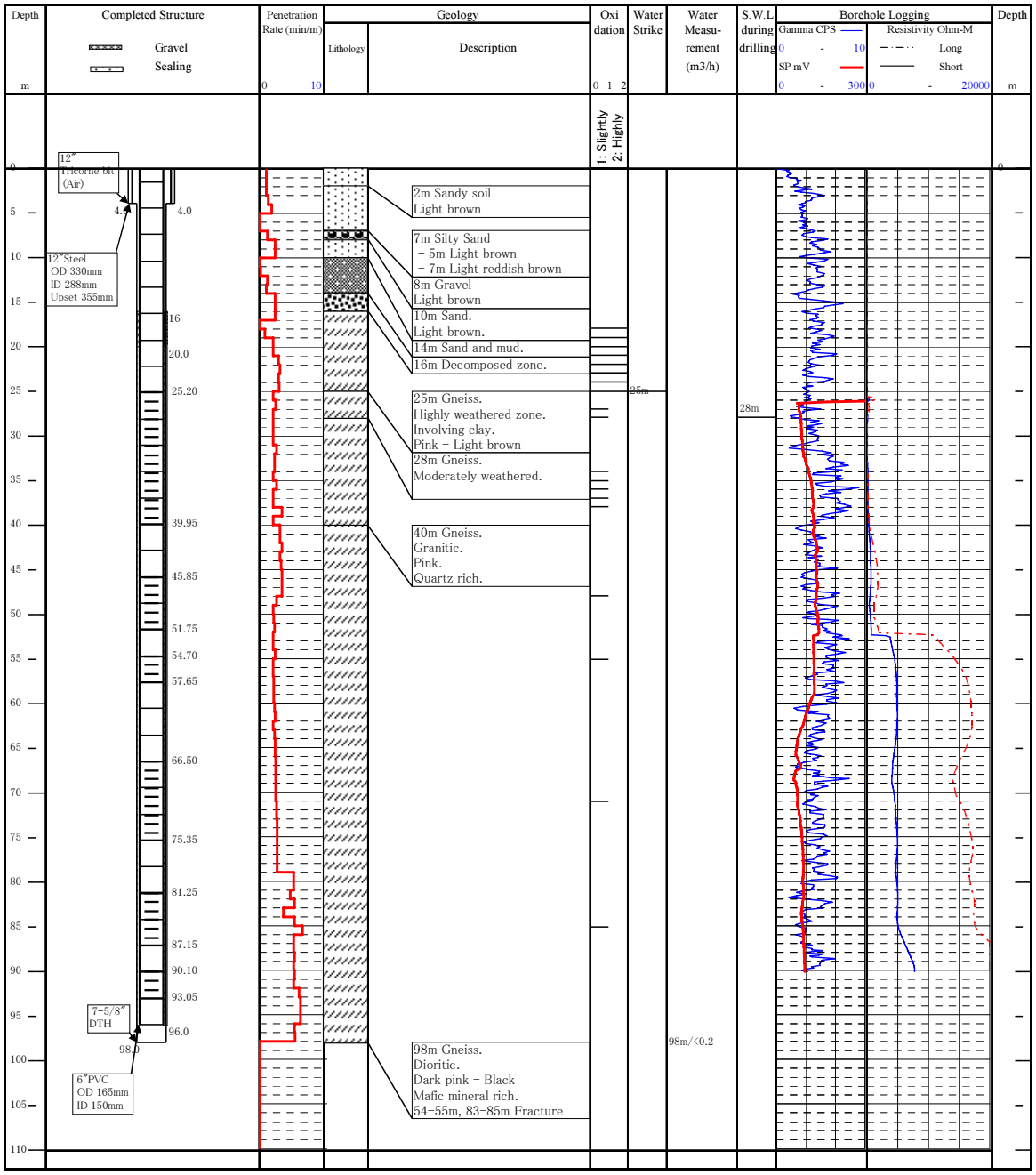
Drilling No.	NZ-047BH2	Registration No.	673/2010	Date of Commencement	27-Sep-10
Village	Isanga	GPS Coordinates (Arc1960):		Date of Completion	28-Sep-10
Ward	Lusu	X	Y	Contractor	DDCA
District/Municipality	Nzega	36M0524030	9550844	Rig Sankyo	Drille: Tito



E.2 Drilling report of Isanga (BH2), Nzega District

The Study on Rural Water Supply in Tabora Region | **JICA**

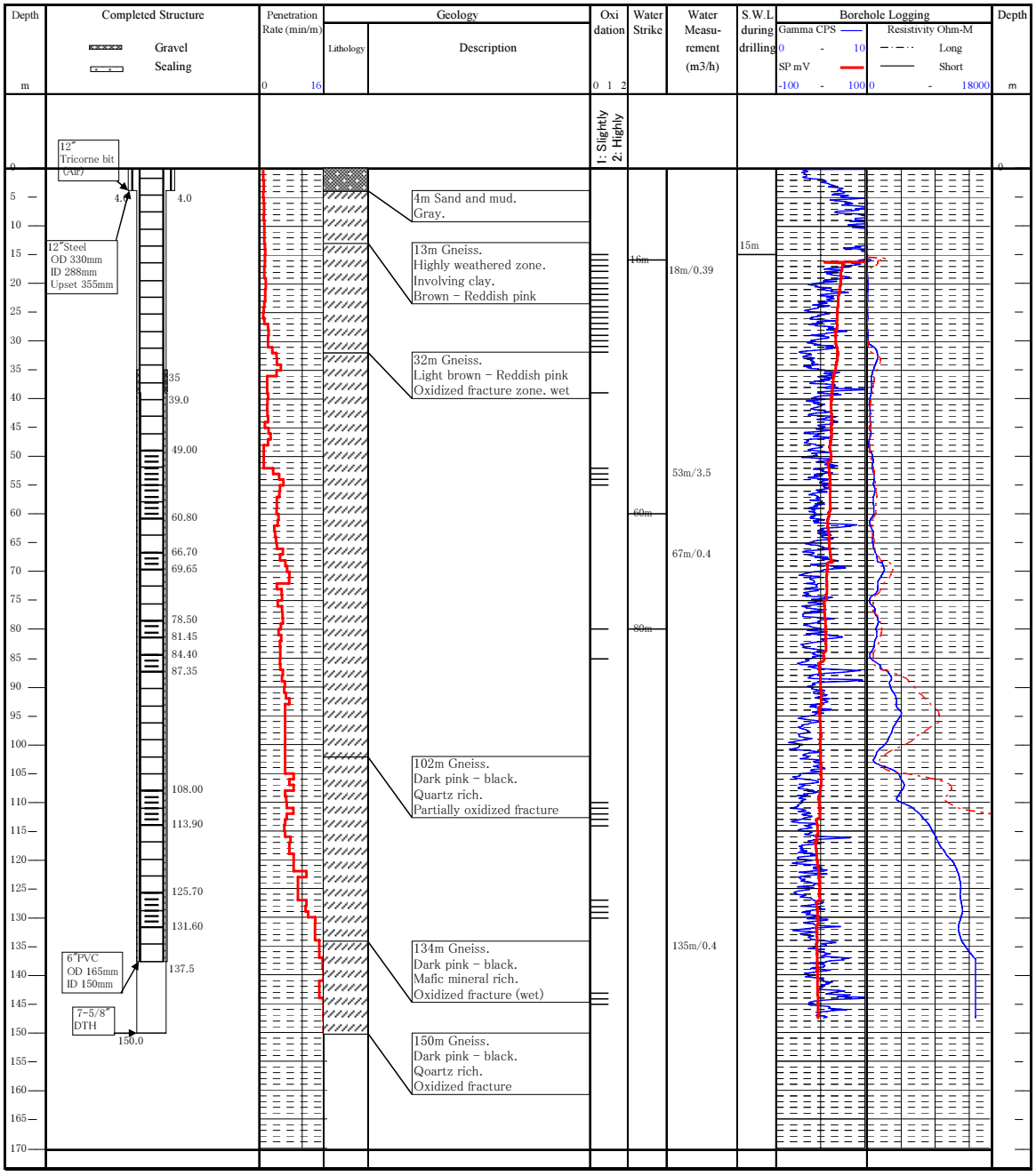
Drilling No.	SK-028BH1	Registration No.	670/2010	Date of Commencement	14-Sep-10
Village	Usunga	GPS Coordinates (Arc1960):		Date of Completion	17-Sep-10
Ward	Kipanga	X	Y	Contractor	DDCA
District/Municipality	Sikonge	36M0492530	9368238	Rig Sankyo	Drille Tito



E.3 Drilling report of Usunga (BH1), Sikonge District

The Study on Rural Water Supply in Tabora Region | **JICA**

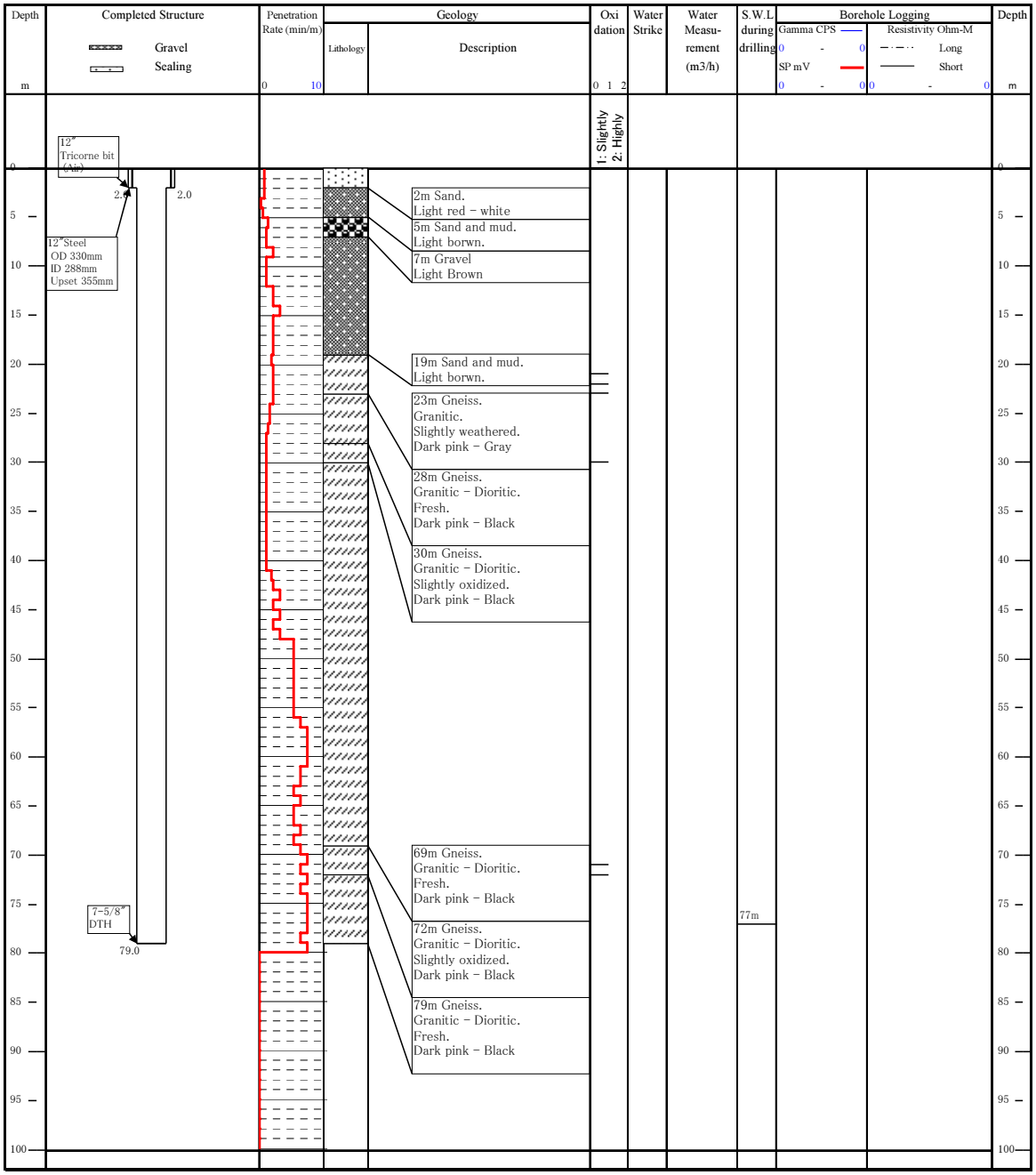
Drilling No.	SK-028BH2	Registration No.	671/2010	Date of Commencement	18-Sep-10
Village	Usunga	GPS Coordinates (Arc1960):		Date of Completion	22-Sep-10
Ward	Kipanga	X	Y	Contractor	DDCA
District/Municipality	Sikonge	36M0494744	9368375	Rig Sankyo	Drille Tito



E.4 Drilling report of Usunga (BH2), Sikonge District

The Study on Rural Water Supply in Tabora Region | **JICA**

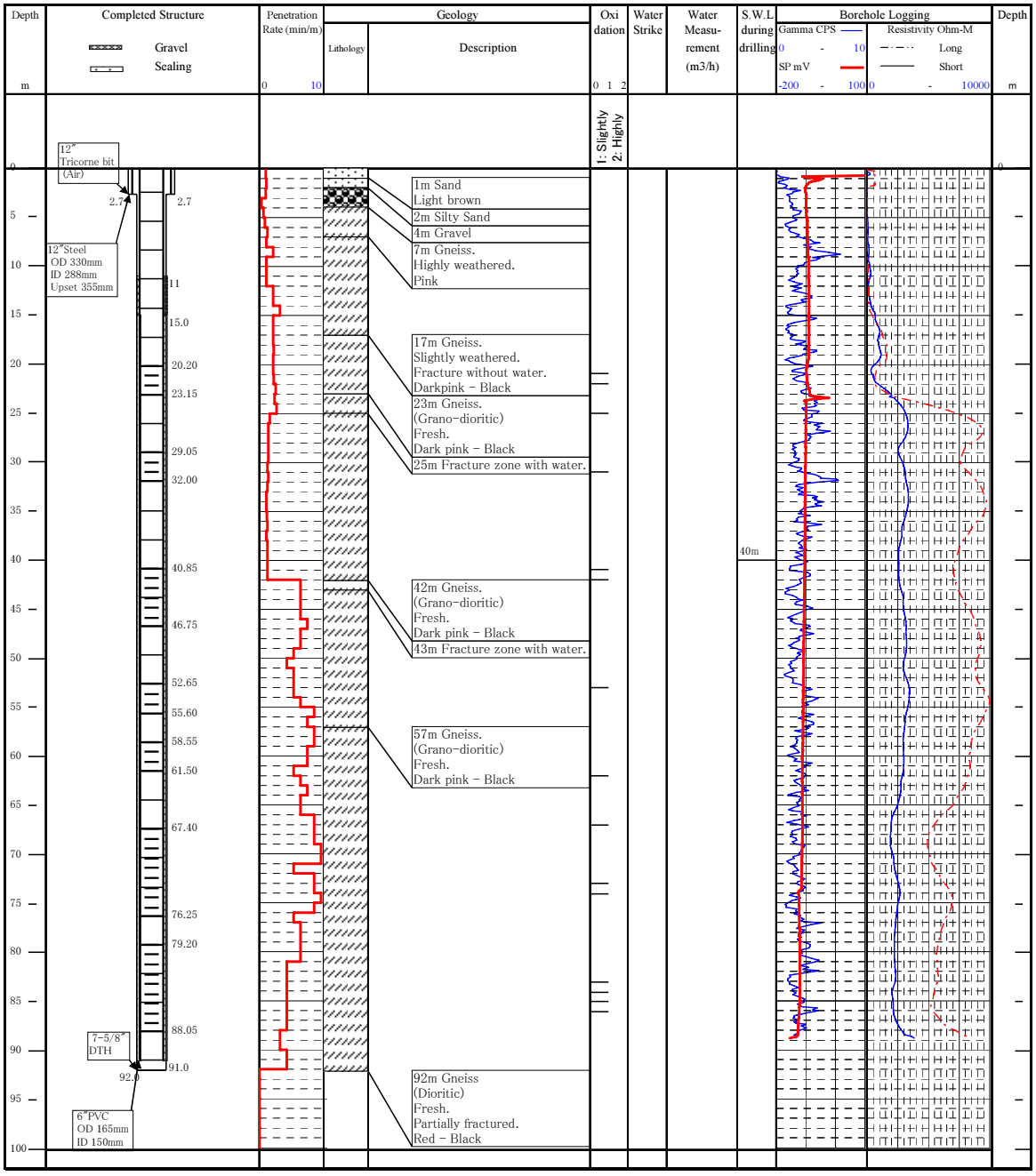
Drilling No.	SK-037BH1	Registration No.		Date of Commencement	10-Sep-10
Village	Mpombwe	GPS Coordinates (Arc1960):		Date of Completion	11-Sep-10
Ward	Pangale	X	Y	Contractor	DDCA
District/Municipality	Sikonge	36M0466529	9402556	Rig Sankyo	Drille Tito



E.5 Drilling report of Mpombwe (BH1), Sikonge District

The Study on Rural Water Supply in Tabora Region | **JICA**

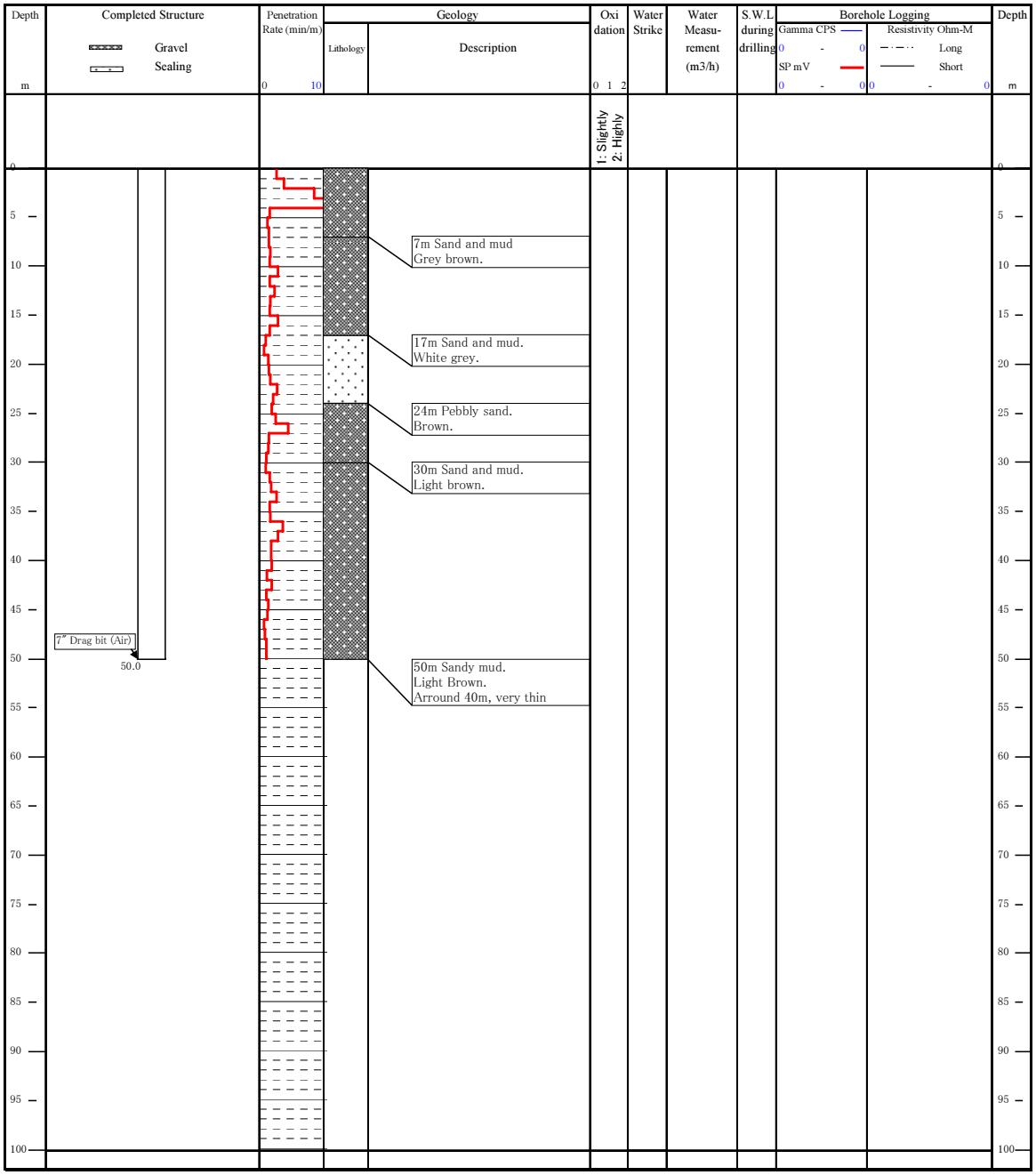
Drilling No.	SK-037BH2	Registration No.	669/2010	Date of Commencement	12-Sep-10
Village	Mpombwe	GPS Coordinates (Arc1960):		Date of Completion	13-Sep-10
Ward	Pangale	X	Y	Contractor	DDCA
District/Municipality	Sikonge	36M0465785	9405719	Rig Sankyo	Drille Tito



E.6 Drilling report of Mpombwe (BH2), Sikonge District

The Study on Rural Water Supply in Tabora Region | **JICA**

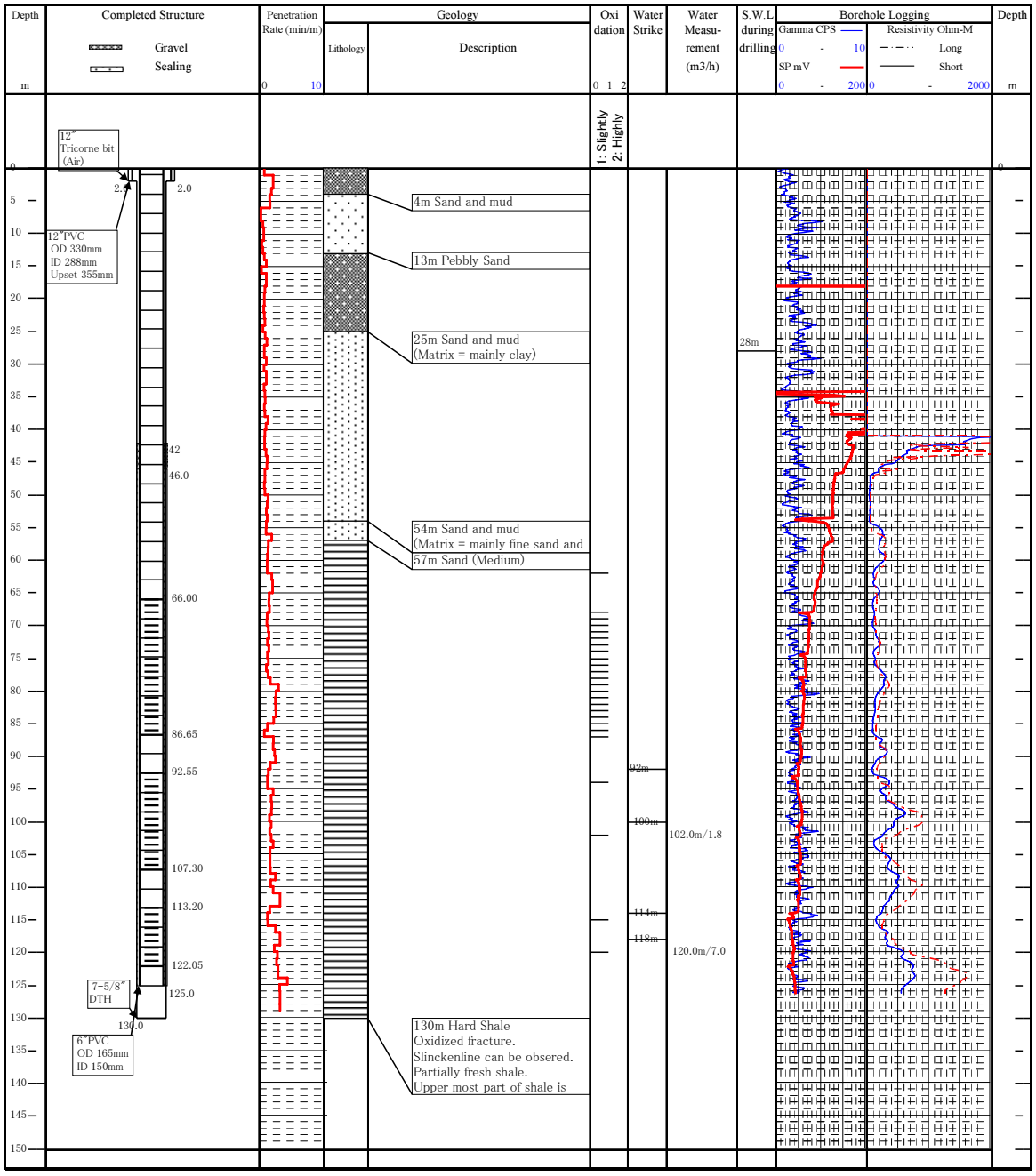
Drilling No.	TR-054BH1	Registration No.		Date of Commencement	17-Aug-10
Village	Mpumbuli	GPS Coordinates (Arc1960):		Date of Completion	17-Aug-10
Ward	Kizengi	X	Y	Contractor	DDCA
District/Municipality	Tabora Rural	36M0549469	9413752	Rig Shlum	Drille Kanza



E.7 Drilling report of Mpumbuli (BH1), Tabora Rural District

The Study on Rural Water Supply in Tabora Region | **JICA**

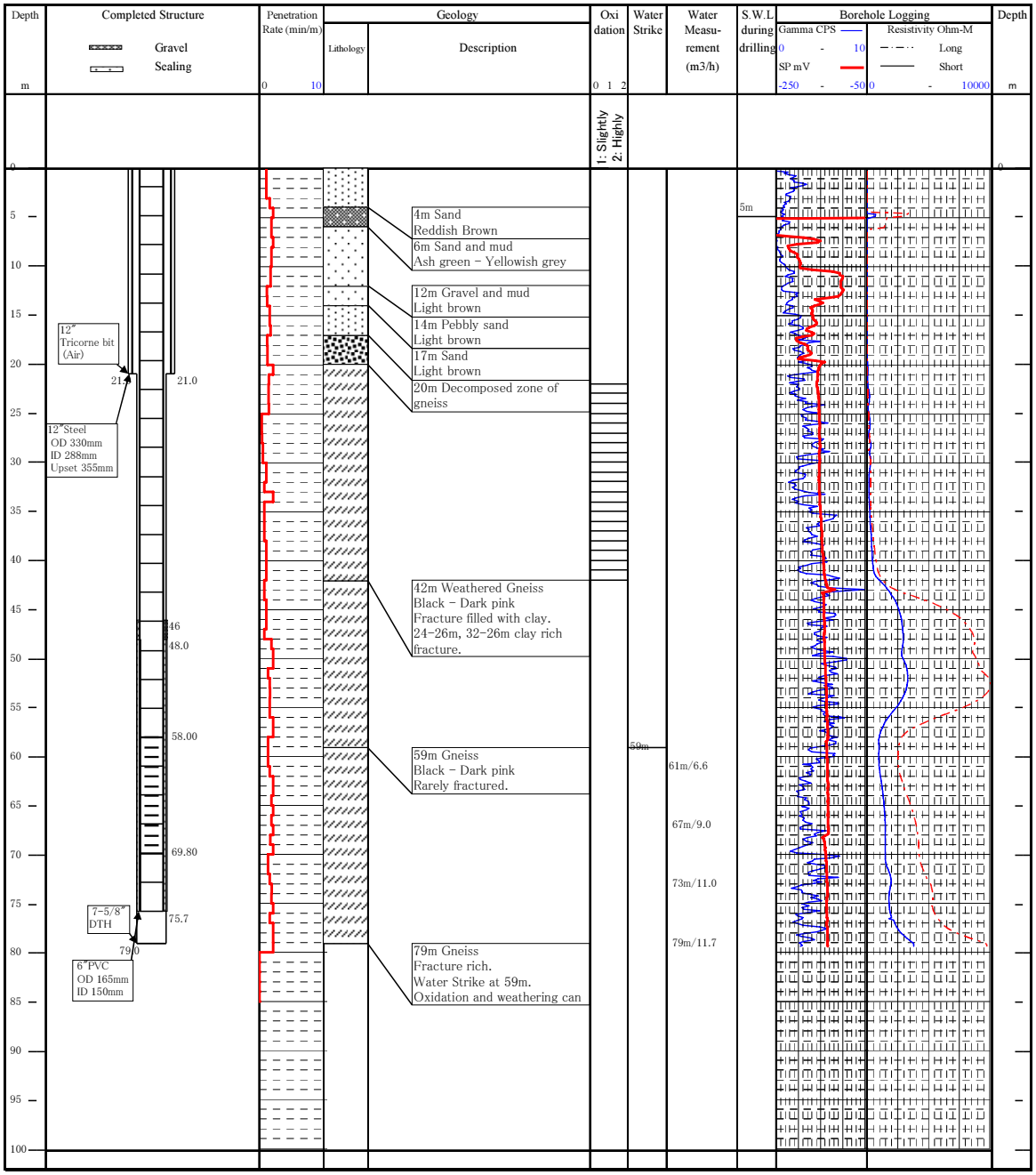
Drilling No.	TR-054BH2	Registration No.	662/2010	Date of Commencement	18-Aug-10
Village	Mpumbuli	GPS Coordinates (Arc1960):		Date of Completion	19-Aug-10
Ward	Kizengi	X	Y	Contractor	DDCA
District/Municipality	Tabora Rural	36M0549535	9413742	Rig Shlum	Drille kanza



E.8 Drilling report of Mpumbuli (BH2), Tabora Rural district

The Study on Rural Water Supply in Tabora Region | **JICA**

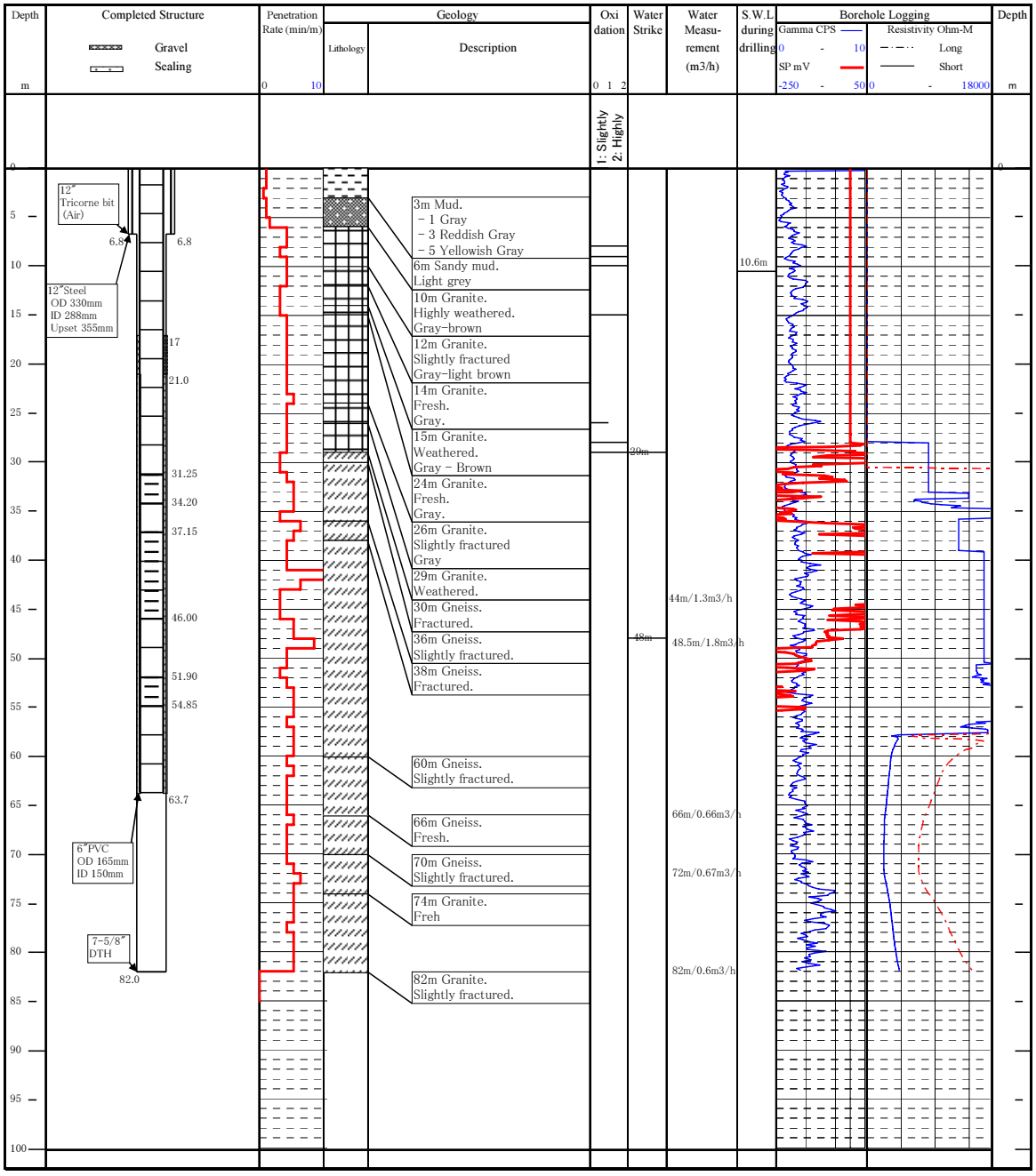
Drilling No.	TR-069BH1	Registration No.	664/2010	Date of Commencement	1-Sep-10
Village	Mabama	GPS Coordinates (Arc1960):		Date of Completion	9-Sep-10
Ward	Mabama	X	Y	Contractor	DDCA
District/Municipality	Tabora Rural	36M0448218	9433981	Rig Shlum	Drille kanza



E.9 Drilling report of Mabama (BH1), Tabora Rural District

The Study on Rural Water Supply in Tabora Region | **JICA**

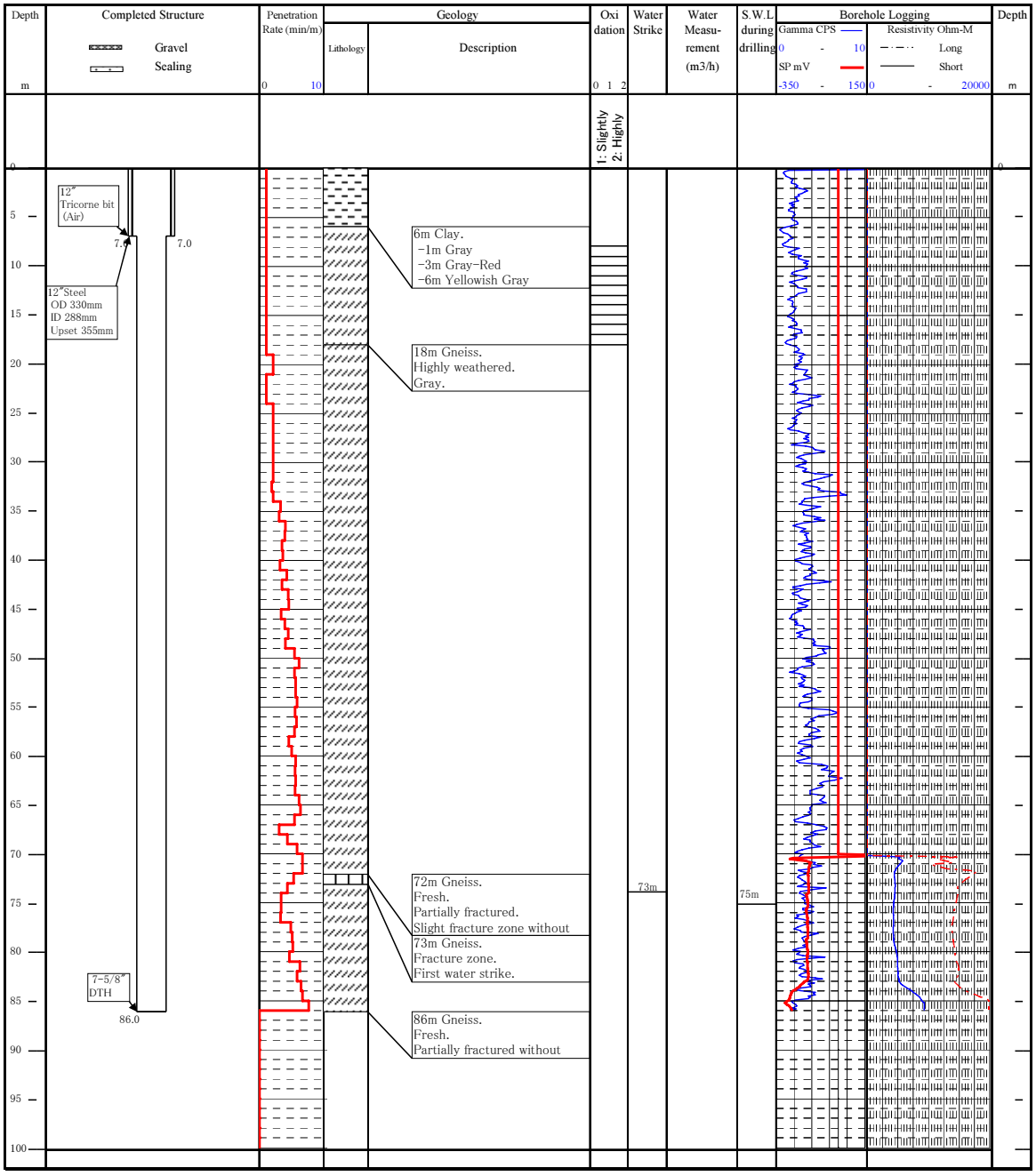
Drilling No.	TR-069BH2	Registration No.	665/2010	Date of Commencement	10-Sep-10
Village	Mabama	GPS Coordinates (Arc1960):		Date of Completion	13-Sep-10
Ward	Mabama	X	Y	Contractor	DDCA
District/Municipality	Tabora Rural	36M0448362	9433208	Rig Shlum	Drille kanza



E.10 Drilling report of Mabama (BH2), Tabora Rural District

The Study on Rural Water Supply in Tabora Region | **JICA**

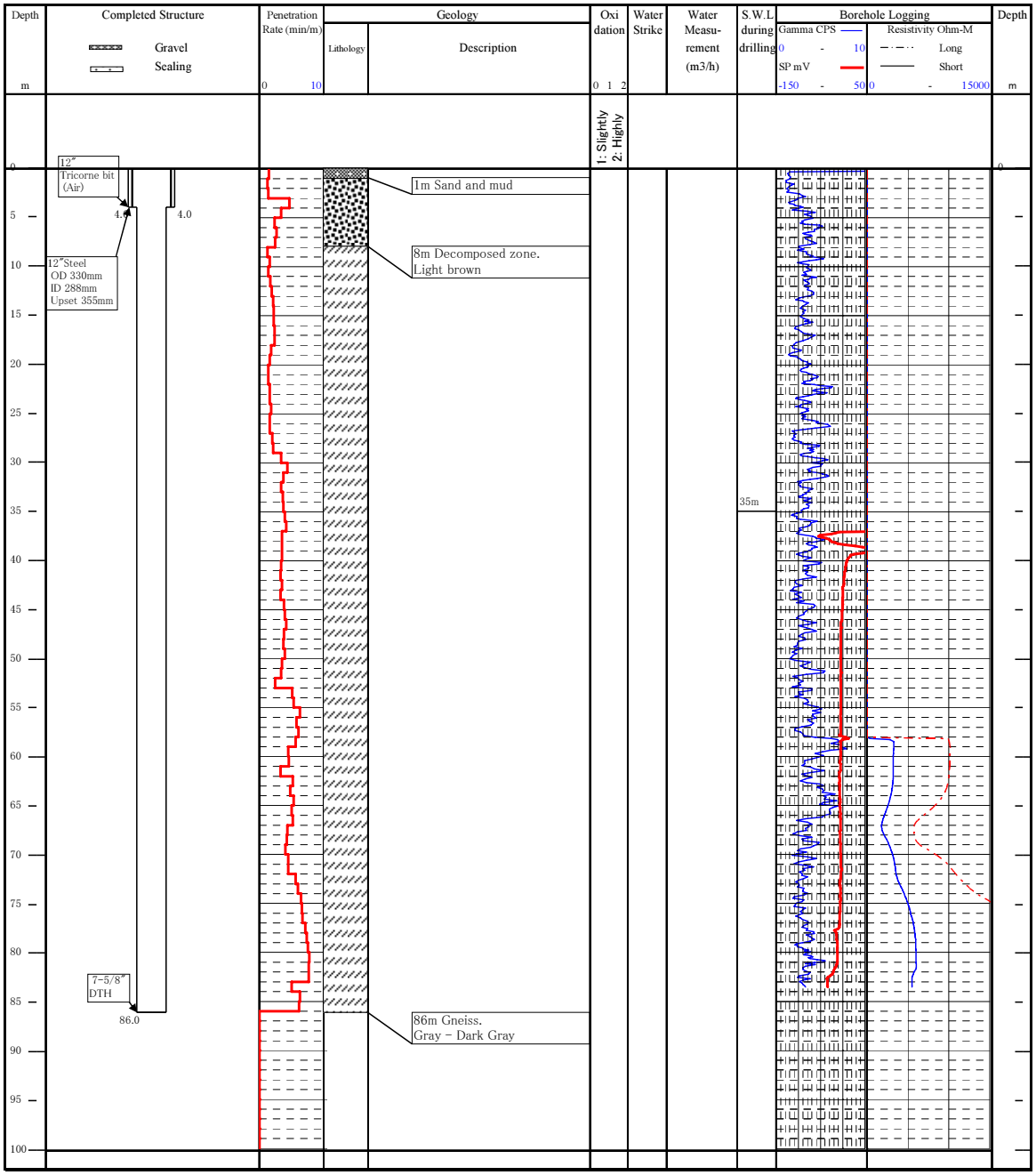
Drilling No.	TR-069BH3	Registration No.		Date of Commencement	14-Sep-10
Village	Mabama	GPS Coordinates (Arc1960):		Date of Completion	16-Sep-10
Ward	Mabama	X	Y	Contractor	DDCA
District/Municipality	Tabora Rural	36M0448517	9433250	Rig Shlum	Drille kanza



E.11 Drilling report of Mabama (BH3), Tabora Rural District

The Study on Rural Water Supply in Tabora Region | **JICA**

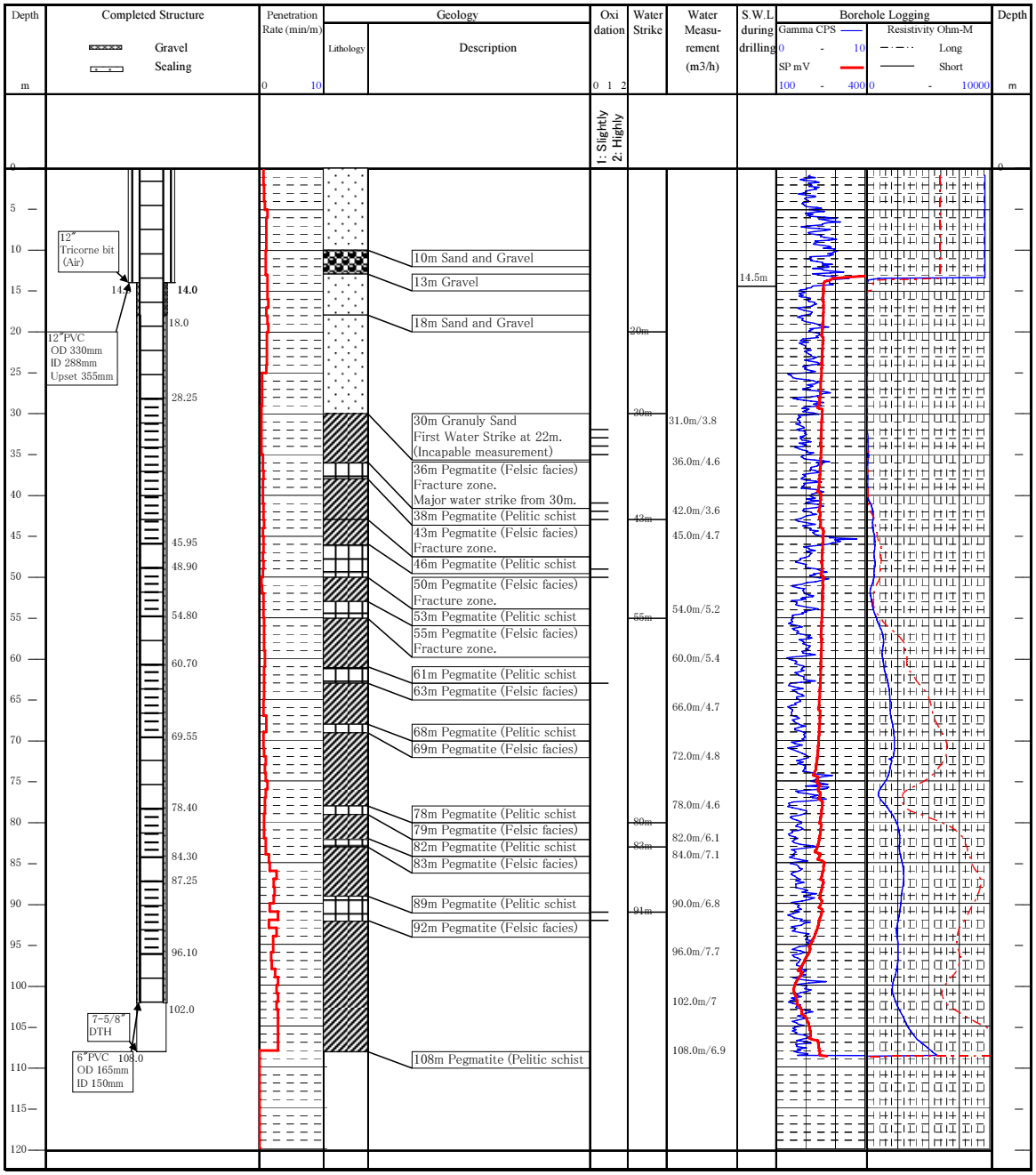
Drilling No.	TR-098BH1	Registration No.		Date of Commencement	19-Sep-10
Village	Ufuluma	GPS Coordinates (Arc1960):		Date of Completion	22-Sep-10
Ward	Ufuluma	X	Y	Contractor	DDCA
District/Municipality	Tabora Rural	36M0432350	9447793	Rig Shlum	Drille kanza



E.12 Drilling report of Ufuluma (BH1), Tabora Rural District

The Study on Rural Water Supply in Tabora Region | **JICA**

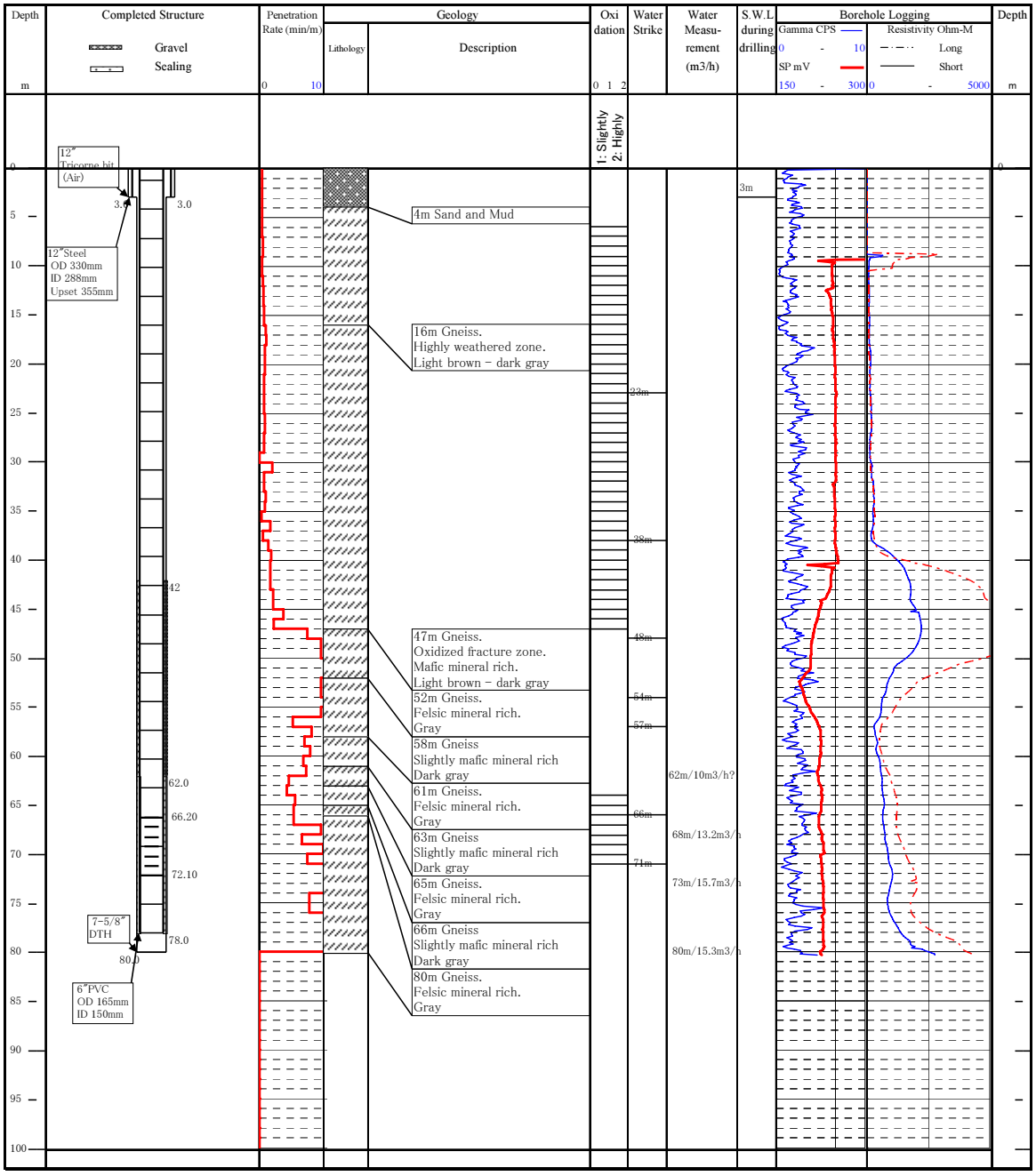
Drilling No.	TU-008BH1	Registration No.	663/2010	Date of Commencement	26-Aug-10
Village	Kakola	GPS Coordinates (Arc1960):		Date of Completion	31-Aug-10
Ward	Kakola	X	Y	Contractor	DDCA
District/Municipality	Tabora Urban	36M0482083	9462843	Rig Shlum	Drille kanza



E.13 Drilling report of Kakola (BH1), Tabora Urban Municipal District

The Study on Rural Water Supply in Tabora Region | **JICA**

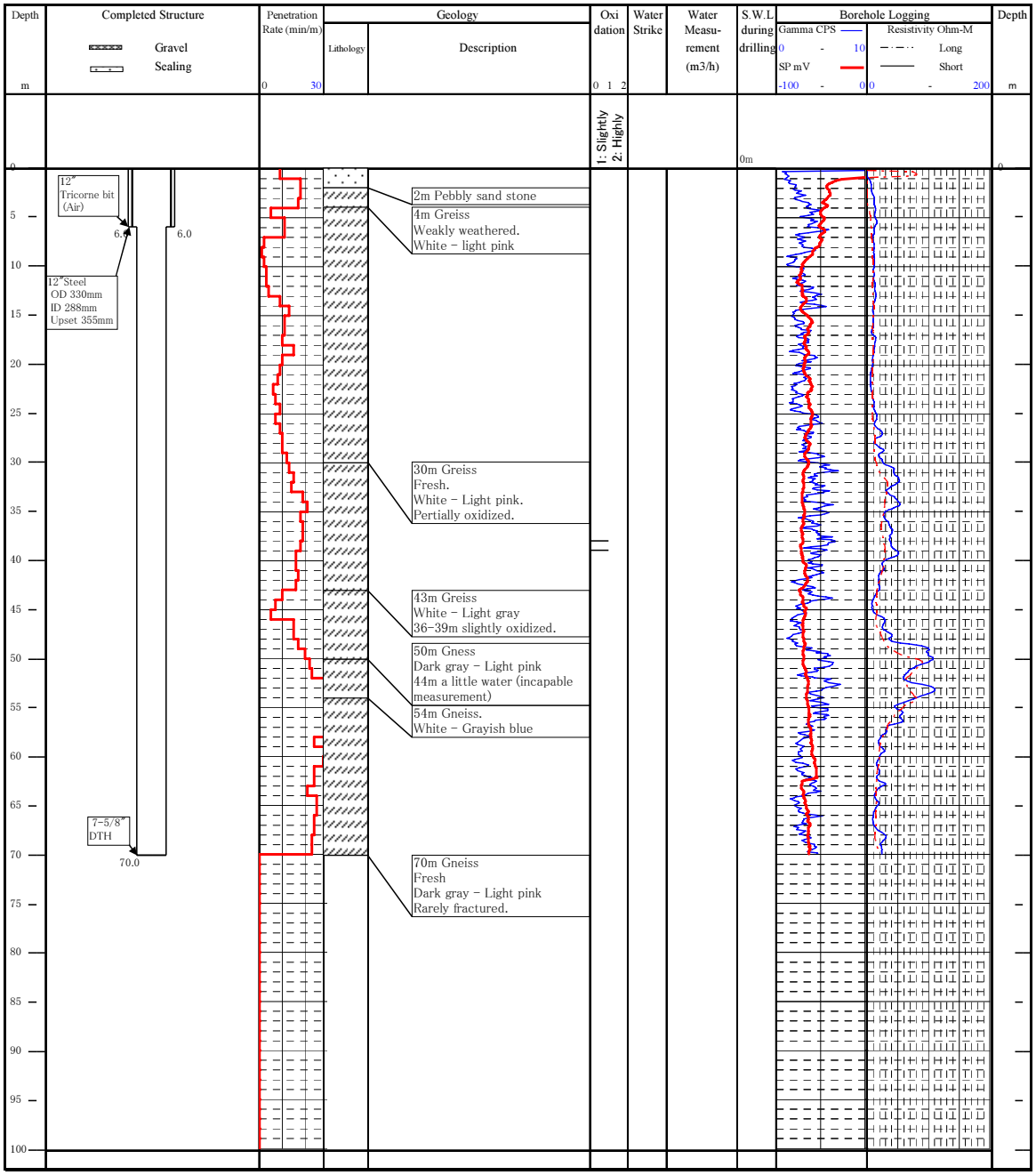
Drilling No.	IG-007BH1	Registration No.	675/2010	Date of Commencement	24-Sep-10
Village	Igumo	GPS Coordinates (Arc1960):		Date of Completion	28-Sep-10
Ward	Chabutwa	X	Y	Contractor	DDCA
District/Municipality	Igunga	36M0551014	9495593	Rig Shlum	Drille kanza



E.14 Drilling report of Igumo (BH1), Igunga District

The Study on Rural Water Supply in Tabora Region | **JICA**

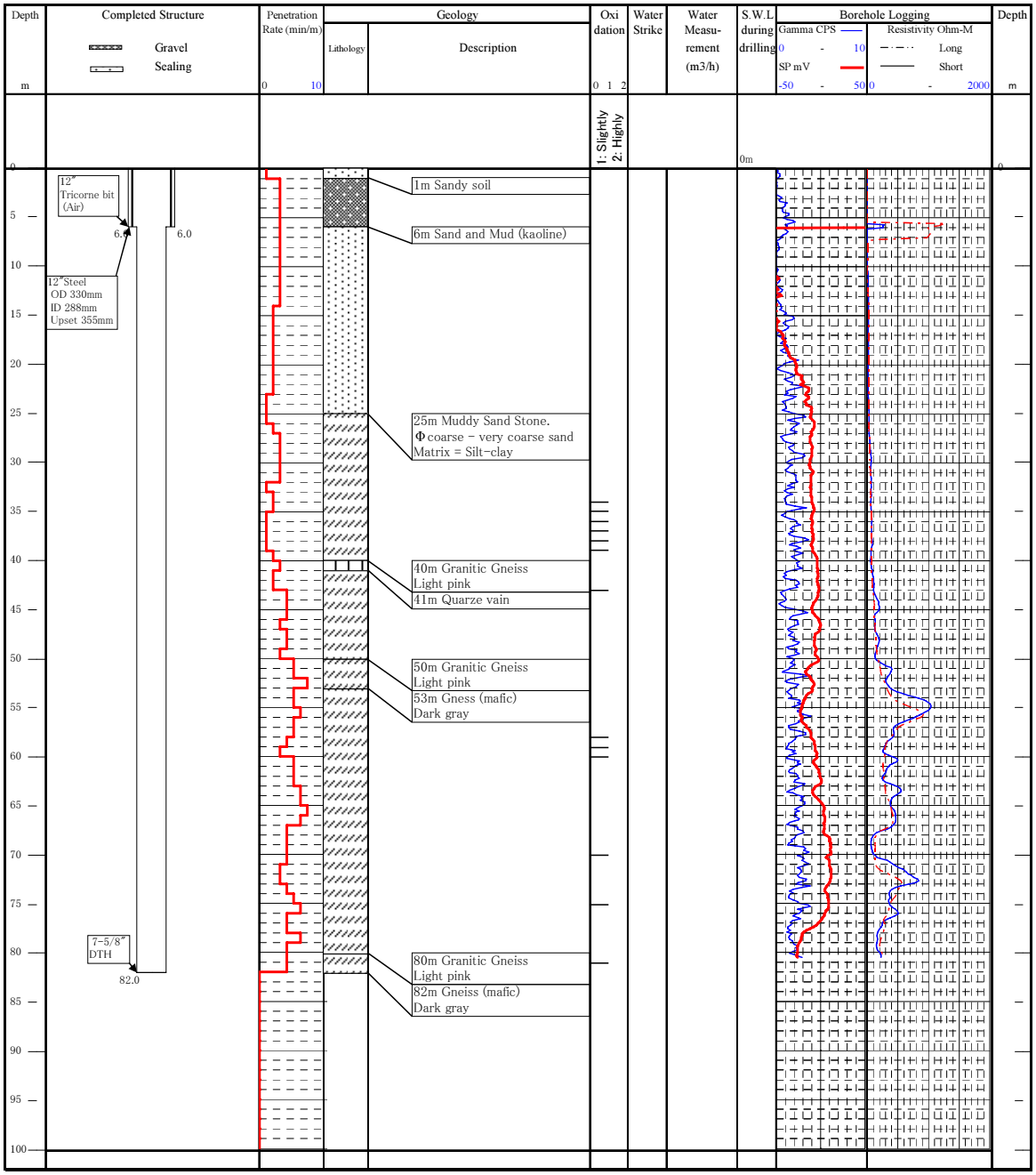
Drilling No.	IG-012BH1	Registration No.		Date of Commencement	29-Sep-10
Village	Buhekela	GPS Coordinates (Arc1960):		Date of Completion	6-Oct-10
Ward	Igoweko	X	Y	Contractor	DDCA
District/Municipality	Igunga	36M0578471	9472418	Rig Shlum	Drille kanza



E.15 Drilling report of Buhekela (BH1), Igunga District

The Study on Rural Water Supply in Tabora Region | **JICA**

Drilling No.	IG-033BH1	Registration No.		Date of Commencement	29-Sep-10
Village	Kagongwa	GPS Coordinates (Arc1960):		Date of Completion	1-Oct-10
Ward	Itunduru	X	Y	Contractor	DDCA
District/Municipality	Igunga	36M0573228	9553481	Rig Sankyo	Drille Tito

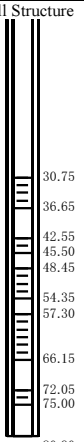


E.16 Drilling report of Kagongwa (BH1), Igunga District

The Study on Rural Water Supply in Tabora Region | **JICA**

BH No.	NZ-047BH1	Village	Isanga	Date of Submission	28-Oct-08
Borehole No.	672/2010	Ward	Lusu	Contractor	DDCA
		District/Municipality	Nzega		

Well Structure

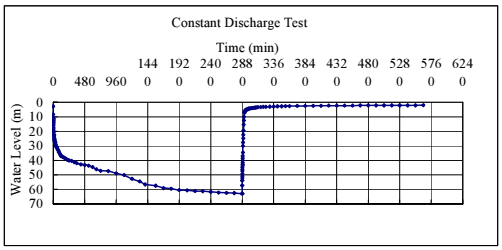


Driling Results

Completion Date:	27-Sep-10
Static Water Level (m)	19.00
Blown Yield (L/min)	
Casing Bottom (m)	80.9
Screen Position (m-m)	30.75-36.65, 42.55-45.5, 48.45-54.35, 57.3-66.15, 72.05-75

Constant Discharge Rate Pumping Test

Date:	17-Oct-10	-	19-Oct-10
Static Water Level (m)	2.82		
Duration (min)	2880		
Q	3.70 m3/h	61.67	L/min
D.W.L (m)	63.55		
D.W.L after 12 hr (m)	47.15		
Specific Capacity after 12hr (m3/h)	0.08		
s (m)	60.73		
Recovered D.W.L After 1hr(m)	5.15		

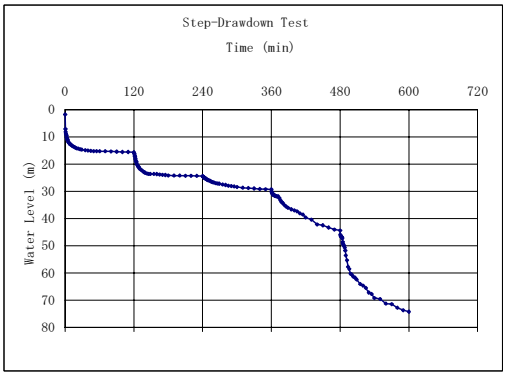


Step-Drawdown Test

Date: 17-Oct-10 - 17-Oct-10

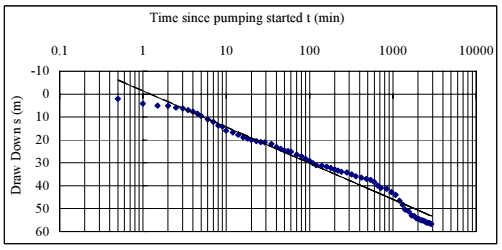
Static Water Level (m) : 1.74 m

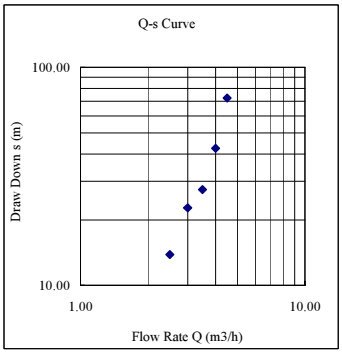
Step	Duration (min)	Q (m3/h)	Q (L/min)	D.W.L (m)	s (m)	Q/s (m3/h/m)
1	120	2.50	41.67	15.60	13.86	0.18
2	120	3.00	50	24.40	22.66	0.13
3	120	3.50	58.33	29.27	27.53	0.13
4	120	4.00	66.67	44.36	42.62	0.09
5	120	4.50	75	74.20	72.46	0.06



Analysis Results of Constant Dicharge Rate Pumping Test

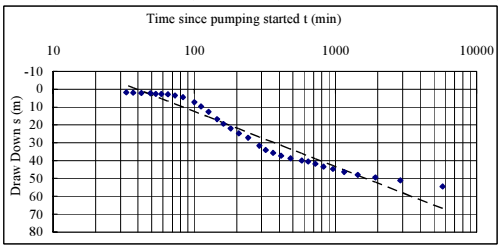
Q	3.7 m3/h	61.67	L/min
ds1 (m)	14.417606	dt1 (min)	10
ds2 (m)	30.160289	dt2 (min)	100
ds (m)	15.742683		
Screen Pipe Length (m)	26.55		
T (L/min/m)	0.71	=0.183Q/ds	
T (m3/s/m)	1.195E-05		
K (m/min)	0.03	=T/(Screen Length)	
K (m/s)	4.500E-07		





Analysis Results of Recovery Test

Q	3.7 m3/h	61.67	L/min
ds'1 (m)	12.405501	dt/t'1	100
ds'2 (m)	43.288354	dt/t'2	1000
ds (m)	30.882853		
Screen Pipe Length (m)	26.55		
T (L/min/m)	0.36	=0.183Q/ds	
T (m3/s/m)	6.091E-06		
K (m/min)	0.01	=T/(Screen Length)	
K (m/s)	2.294E-07		



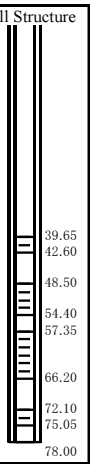
Observation

E.17 Pumping test result of Isanga(BH1), in Nzega District

The Study on Rural Water Supply in Tabora Region | **JICA**

BH No.	NZ-047BH2	Village	Isanga	Date of Submission	28-Oct-08
Borehole No.	673/2010	Ward	Lusu	Contractor	DDCA
		District/Municipality	Nzega		

Well Structure

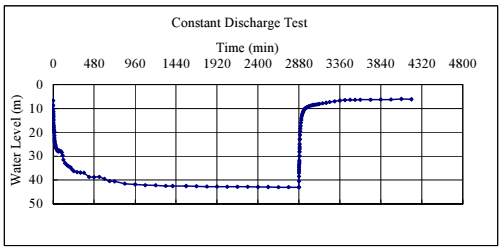


Driling Results

Completion Date:	28-Sep-10
Static Water Level (m)	9.20
Blown Yield (L/min)	
Casing Bottom (m)	78
Screen Position (m-m)	39.65-42.6, 48.5-54.4, 57.35-66.2, 72.1-75.05

Constant Discharge Rate Pumping Test

Date:	20-Oct-10	-	22-Oct-10
Static Water Level (m)	6.64		
Duration (min)	2880		
Q	3.00 m3/h	50	L/min
D.W.L (m)	42.98		
D.W.L after 12 hr (m)	40.50		
Specific Capacity after 12hr (m3/h)	0.09		
s (m)	36.34		
Recovered D.W.L After 1hr(m)	10.60		

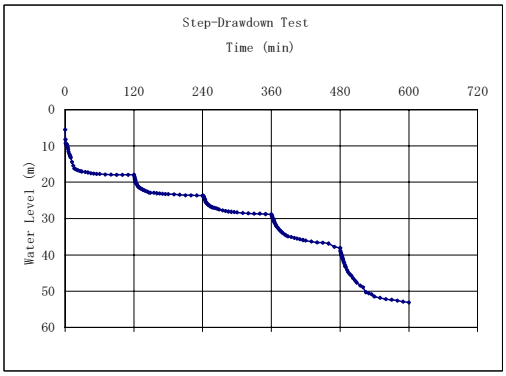


Step-Drawdown Test

Date: 20-Oct-10 - 20-Oct-10

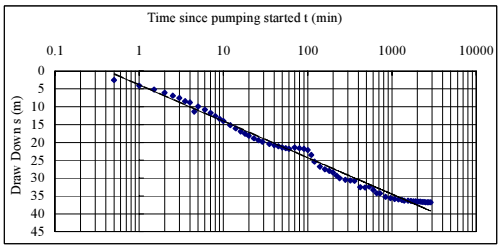
Static Water Level (m) : 5.52 m

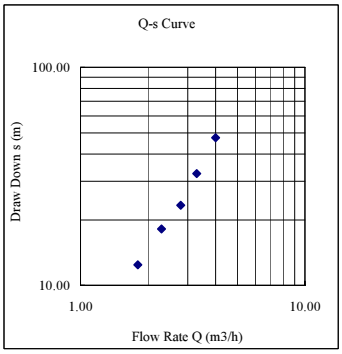
Step	Duration (min)	Q (m3/h)	Q (L/min)	D.W.L (m)	s (m)	Q/s (m3/h/m)
1	120	1.80	30	17.96	12.44	0.14
2	120	2.30	38.33	23.70	18.18	0.13
3	120	2.80	46.67	28.81	23.29	0.12
4	120	3.30	55	38.11	32.59	0.10
5	120	4.00	66.67	53.09	47.57	0.08



Analysis Results of Constant Dicharge Rate Pumping Test

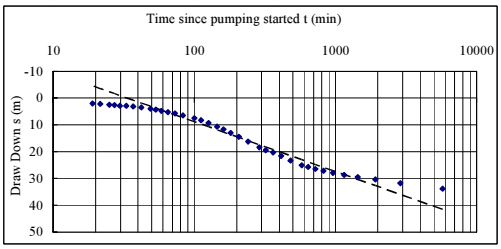
Q	3 m3/h	50	L/min
ds1 (m)	14.084289	dt1 (min)	10
ds2 (m)	24.288461	dt2 (min)	100
ds (m)	10.204172		
Screen Pipe Length (m)	20.65		
T (L/min/m)	0.89	=0.183Q/ds	
T (m3/s/m)	1.494E-05		
K (m/min)	0.04	=T/(Screen Length)	
K (m/s)	7.237E-07		





Analysis Results of Recovery Test

Q	3 m3/h	50	L/min
ds'1 (m)	8.7896329	dt/t'1	100
ds'2 (m)	27.384651	dt/t'2	1000
ds (m)	18.595018		
Screen Pipe Length (m)	20.65		
T (L/min/m)	0.49	=0.183Q/ds	
T (m3/s/m)	8.201E-06		
K (m/min)	0.02	=T/(Screen Length)	
K (m/s)	3.971E-07		



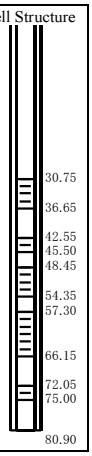
Observation

E.18 Pumping test result of Isanga (BH2), Nzega District

The Study on Rural Water Supply in Tabora Region | **JICA**

BH No.	NZ-047BH1	Village	Isanga	Date of Submission	28-Oct-08
Borehole No.	672/2010	Ward	Lusu	Contractor	DDCA
		District/Municipality	Nzega		

Well Structure

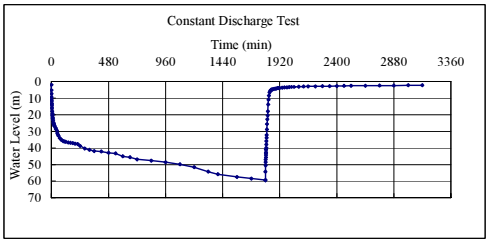


Driling Results

Completion Date:	27-Sep-10
Static Water Level (m)	19.00
Blown Yield (L/min)	
Casing Bottom (m)	80.9
Screen Position (m-m)	30.75-36.65, 42.55-45.5, 48.45-54.35, 57.3-66.15, 72.05-75

Constant Discharge Rate Pumping Test

Date:	24-Oct-10	-	24-Oct-10
Static Water Level (m)	1.90		
Duration (min)	1800		
Q	3.70 m3/h	61.67	L/min
D.W.L (m)	59.37		
D.W.L after 12 hr (m)	0.00		
Specific Capacity after 12hr (m3/h)	-1.95		
s (m)	57.47		
Recovered D.W.L After 1hr(m)	4.69		

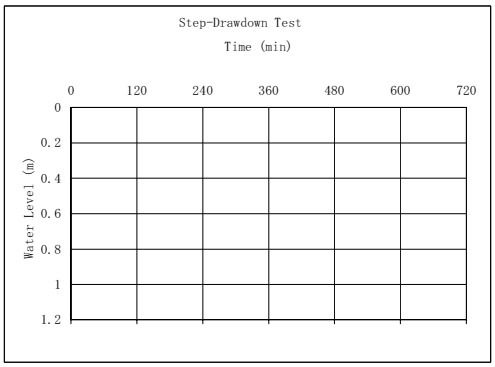


Step-Drawdown Test

Date: -

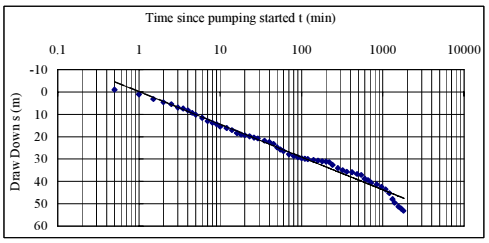
Static Water Level (m) : m

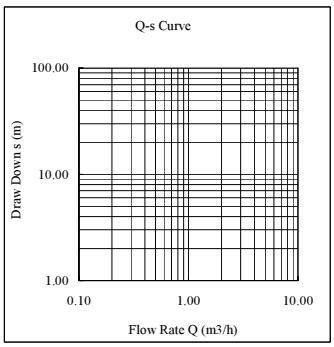
Step	Duration (min)	Q (m3/h)	Q (L/min)	D.W.L (m)	s (m)	Q/s (m3/h/m)
1						
2						
3						
4						
5						



Analysis Results of Constant Dicharge Rate Pumping Test

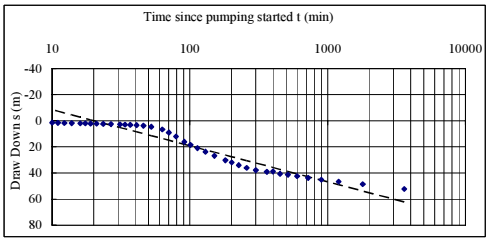
Q	3.7 m3/h	61.67	L/min
ds1 (m)	14.502057	dt1 (min)	10
ds2 (m)	29.147063	dt2 (min)	100
ds (m)	14.645006		
Screen Pipe Length (m)	26.55		
T (L/min/m)	0.77	=0.183Q/ds	
T (m3/s/m)	1.284E-05		
K (m/min)	0.03	=T/(Screen Length)	
K (m/s)	4.837E-07		





Analysis Results of Recovery Test

Q	3.7 m3/h	61.67	L/min
ds'1 (m)	19.183789	dt/t'1	100
ds'2 (m)	46.835943	dt/t'2	1000
ds (m)	27.652154		
Screen Pipe Length (m)	26.55		
T (L/min/m)	0.4	=0.183Q/ds	
T (m3/s/m)	6.802E-06		
K (m/min)	0.02	=T/(Screen Length)	
K (m/s)	2.562E-07		

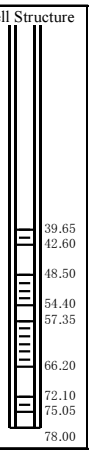


Observation
Simultaneous pumping test with [NZ-047BH2]

E.19 BH1 result of simultaneous pumping test of Isanga (BH1/BH2), Nzega District

BH No.	NZ-047BH2	Village	Isanga	Date of Submission	0-Jan-00
Borehole No.	672/2010	Ward	Lusu	Contractor	DDCA
		District/Municipality	Nzega		

Well Structure

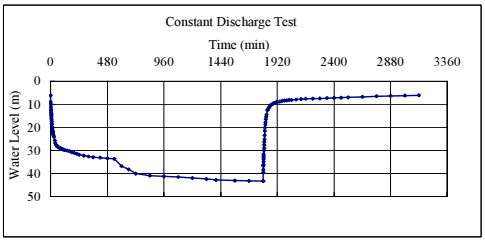


Driling Results

Completion Date:	28-Sep-10
Static Water Level (m)	9.20
Blown Yield (L/min)	
Casing Bottom (m)	78
Screen Position (m-m)	39.65-42.6, 48.5-54.4, 57.35-66.2, 72.1-75.05

Constant Discharge Rate Pumping Test

Date:	24-Oct-10	-	24-Oct-10
Static Water Level (m)	6.17		
Duration (min)	1800		
Q	3.00 m3/h	50	L/min
D.W.L (m)	43.29		
D.W.L after 12 hr (m)	0.00		
Specific Capacity after 12hr (m3/h)	-0.49		
s (m)	37.12		
Recovered D.W.L After 1hr(m)	10.58		

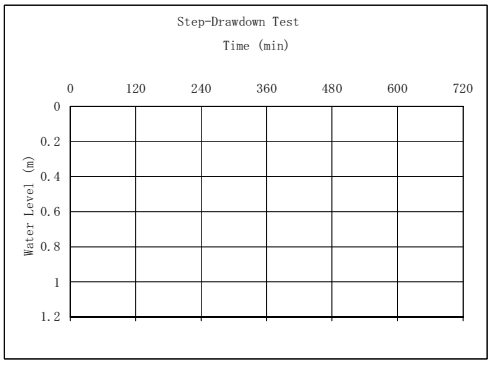


Step-Drawdown Test

Date: -

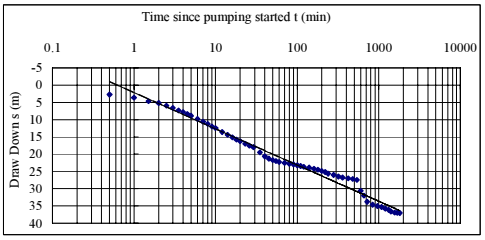
Static Water Level (m) : m

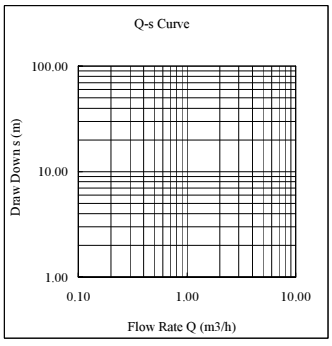
Step	Duration (min)	Q (m3/h)	Q (L/min)	D.W.L (m)	s (m)	Q/s (m3/h/m)
1						
2						
3						
4						
5						



Analysis Results of Constant Dicharge Rate Pumping Test

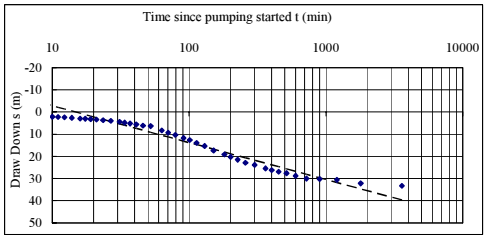
Q	3 m3/h	50	L/min
ds1 (m)	12.671773	dt1 (min)	10
ds2 (m)	23.161032	dt2 (min)	100
ds (m)	10.489259		
Screen Pipe Length (m)	20.65		
T (L/min/m)	0.87	=0.183Q/ds	
T (m3/s/m)	1.454E-05		
K (m/min)	0.04	=T/(Screen Length)	
K (m/s)	7.041E-07		





Analysis Results of Recovery Test

Q	3 m3/h	50	L/min
ds'1 (m)	13.800781	dt/t'1	100
ds'2 (m)	30.420545	dt/t'2	1000
ds (m)	16.619764		
Screen Pipe Length (m)	20.65		
T (L/min/m)	0.55	=0.183Q/ds	
T (m3/s/m)	9.176E-06		
K (m/min)	0.03	=T/(Screen Length)	
K (m/s)	4.443E-07		

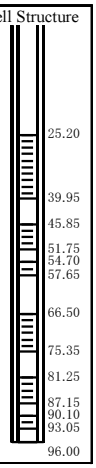


Observation
Simultaneous pumping test with [NZ-047BH1]

E.20 BH2 result of simultaneous pumping test of Isanga (BH1/BH2), Nzega District

BH No.	SK-028BH1	Village	Usunga	Date of Submission	28-Oct-08
Borehole No.	670/2010	Ward	Kipanga	Contractor	DDCA
		District/Municipality	Sikonge		

Well Structure

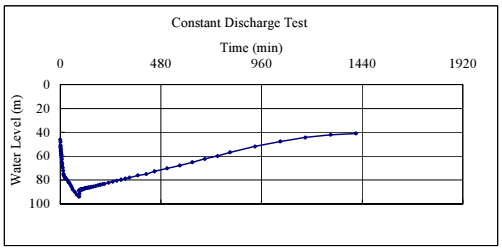


Driling Results

Completion Date:	17-Sep-10
Static Water Level (m)	28.00
Blown Yield (L/min)	
Casing Bottom (m)	96
Screen Position (m-m)	25.2-39.95, 45.85-51.75, 54.7-57.65, 66.5-75.35, 81.25-87.15, 90.1-93.05

Constant Discharge Rate Pumping Test

Date:	12-Oct-10	-	12-Oct-10
Static Water Level (m)	46.20		
Duration (min)	90		
Q	0.30 m3/h	5	L/min
D.W.L (m)	93.90		
D.W.L after 12 hr (m)	0.00		
Specific Capacity after 12hr (m3/h)	0.00		
s (m)	47.70		
Recovered D.W.L After 1hr(m)	85.69		

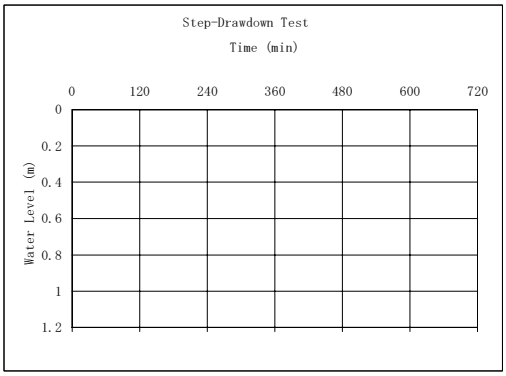


Step-Drawdown Test

Date: -

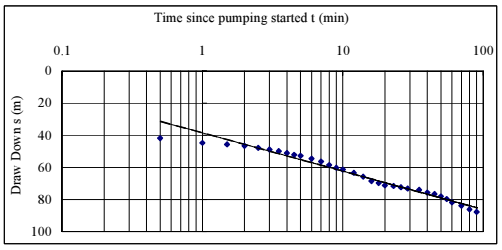
Static Water Level (m) : m

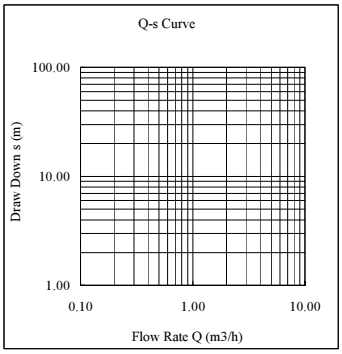
Step	Duration (min)	Q (m3/h)	Q (L/min)	D.W.L (m)	s (m)	Q/s (m3/h/m)
1						
2						
3						
4						
5						



Analysis Results of Constant Dicharge Rate Pumping Test

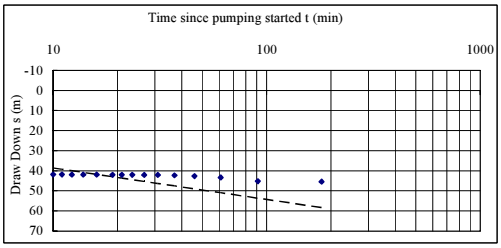
Q	0.3 m3/h	5	L/min
ds1 (m)	62.315342	dt1 (min)	10
ds2 (m)	86.16895	dt2 (min)	100
ds (m)	23.853608		
Screen Pipe Length (m)	41.30		
T (L/min/m)	0.03	=0.183Q/ds	
T (m3/s/m)	6.393E-07		
K (m/min)	0	=T/(Screen Length)	
K (m/s)	1.548E-08		





Analysis Results of Recovery Test

Q	0.3 m3/h	5	L/min
ds'1 (m)	54.311758	dt/t'1	100
ds'2 (m)	70.025448	dt/t'2	1000
ds (m)	15.713691		
Screen Pipe Length (m)	41.30		
T (L/min/m)	0.05	=0.183Q/ds	
T (m3/s/m)	9.705E-07		
K (m/min)	0	=T/(Screen Length)	
K (m/s)	2.350E-08		



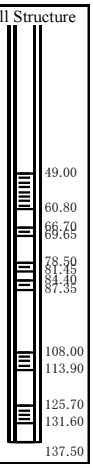
Observation

E.21 Pumping test result of Usunga(BH1), Sikonge District

The Study on Rural Water Supply in Tabora Region | **JICA**

BH No.	SK-028BH2	Village	Usunga	Date of Submission	28-Oct-08
Borehole No.	671/2010	Ward	Kipanga	Contractor	DDCA
		District/Municipality	Sikonge		

Well Structure

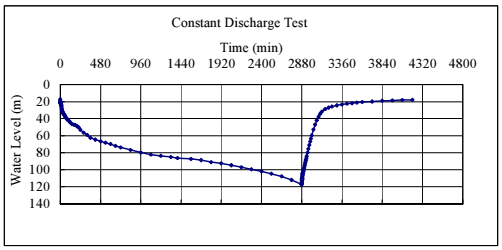


Driling Results

Completion Date:	22-Sep-10
Static Water Level (m)	15.00
Blown Yield (L/min)	
Casing Bottom (m)	137.5
Screen Position (m-m)	49-60.8, 66.7-69.65, 78.5-81.45, 84.4-87.35, 108-113.9, 125.7-131.6

Constant Discharge Rate Pumping Test

Date:	28-Sep-10	-	30-Sep-10
Static Water Level (m)	17.24		
Duration (min)	2880		
Q	0.80 m3/h	13.33	L/min
D.W.L (m)	117.29		
D.W.L after 12 hr (m)	73.72		
Specific Capacity after 12hr (m3/h)	0.01		
s (m)	100.05		
Recovered D.W.L After 1hr(m)	84.08		

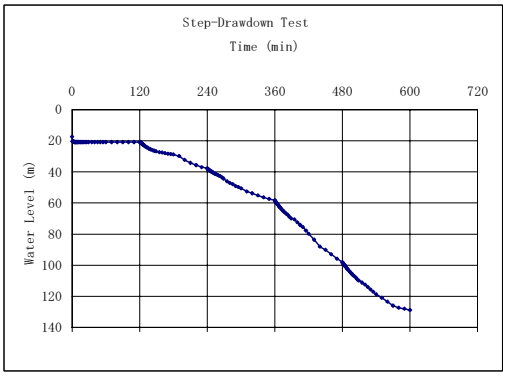


Step-Drawdown Test

Date: 27-Oct-10 - 27-Oct-10

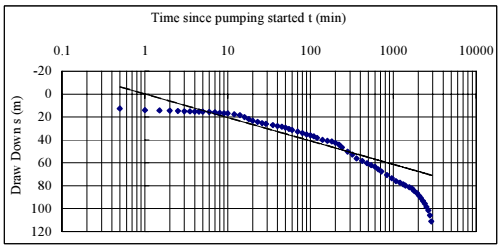
Static Water Level (m) : 17.39 m

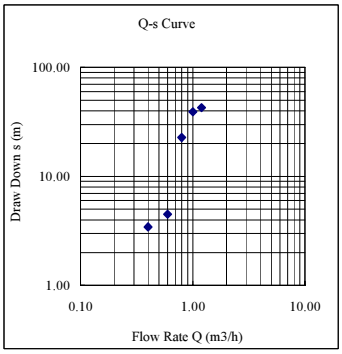
Step	Duration (min)	Q (m3/h)	Q (L/min)	D.W.L (m)	s (m)	Q/s (m3/h/m)
1	120	0.40	6.67	20.83	3.44	0.12
2	120	0.60	10	21.89	4.50	0.13
3	120	0.80	13.33	40.08	22.69	0.04
4	120	1.00	16.67	56.53	39.14	0.03
5	120	1.20	20	60.23	42.84	0.03



Analysis Results of Constant Dicharge Rate Pumping Test

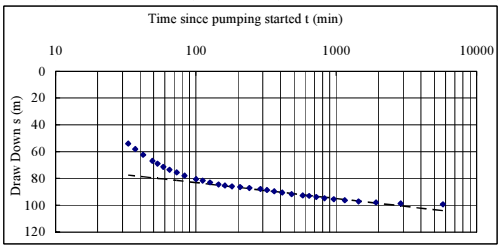
Q	0.8 m3/h	13.33	L/min
ds1 (m)	20.471018	dt1 (min)	10
ds2 (m)	40.921287	dt2 (min)	100
ds (m)	20.450269		
Screen Pipe Length (m)	32.45		
T (L/min/m)	0.11	=0.183Q/ds	
T (m3/s/m)	1.988E-06		
K (m/min)	0	=T/(Screen Length)	
K (m/s)	6.127E-08		





Analysis Results of Recovery Test

Q	0.8 m3/h	13.33	L/min
ds'1 (m)	83.144471	dt/t'1	100
ds'2 (m)	94.987042	dt/t'2	1000
ds (m)	11.842572		
Screen Pipe Length (m)	32.45		
T (L/min/m)	0.2	=0.183Q/ds	
T (m3/s/m)	3.433E-06		
K (m/min)	0.01	=T/(Screen Length)	
K (m/s)	1.058E-07		



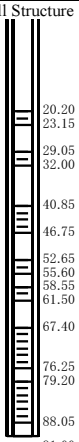
Observation

E.22 Pumping test result of Usunga (BH2), Sikonge District

The Study on Rural Water Supply in Tabora Region | **JICA**

BH No.	SK-037BH2	Village	Mpombwe	Date of Submission	28-Oct-08
Borehole No.	669/2010	Ward	Pangale	Contractor	DDCA
		District/Municipality	Sikonge		

Well Structure

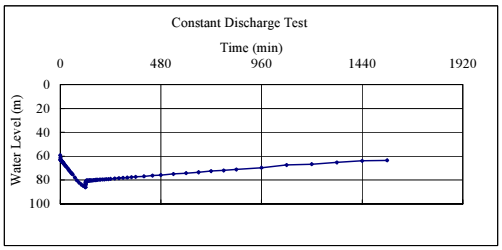


Driling Results

Completion Date:	13-Sep-10
Static Water Level (m)	40.00
Blown Yield (L/min)	
Casing Bottom (m)	91
Screen Position (m-m)	20.2-23.15, 29.05-32, 40.85-46.75, 52.65-55.6, 58.55-61.5, 67.4-76.25, 79.2-88.05

Constant Discharge Rate Pumping Test

Date:	15-Oct-10	-	15-Oct-10
Static Water Level (m)	59.21		
Duration (min)	120		
Q	0.30 m3/h	5	L/min
D.W.L (m)	85.95		
D.W.L after 12 hr (m)	0.00		
Specific Capacity after 12hr (m3/h)	0.00		
s (m)	26.74		
Recovered D.W.L After 1hr(m)	79.80		

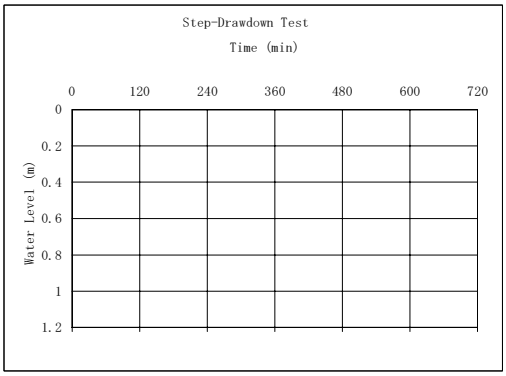


Step-Drawdown Test

Date: -

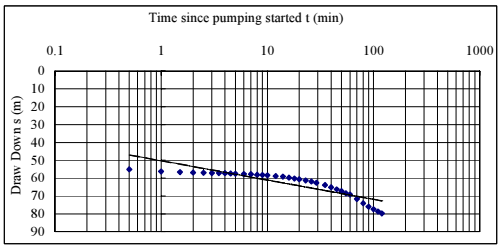
Static Water Level (m) : m

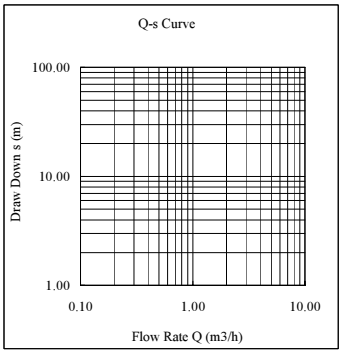
Step	Duration (min)	Q (m3/h)	Q (L/min)	D.W.L (m)	s (m)	Q/s (m3/h/m)
1						
2						
3						
4						
5						



Analysis Results of Constant Dicharge Rate Pumping Test

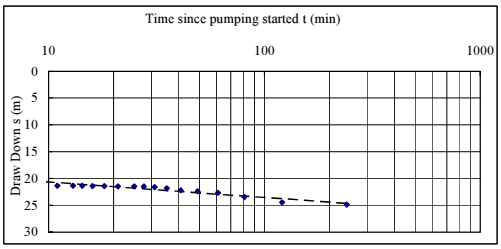
Q	0.3 m3/h	5	L/min
ds1 (m)	61.07419	dt1 (min)	10
ds2 (m)	71.874752	dt2 (min)	100
ds (m)	10.800562		
Screen Pipe Length (m)	35.40		
T (L/min/m)	0.08	=0.183Q/ds	
T (m3/s/m)	1.412E-06		
K (m/min)	0	=T/(Screen Length)	
K (m/s)	3.989E-08		





Analysis Results of Recovery Test

Q	0.3 m3/h	5	L/min
ds'1 (m)	23.55044	dt/t'1	100
ds'2 (m)	26.432572	dt/t'2	1000
ds (m)	2.8821324		
Screen Pipe Length (m)	35.40		
T (L/min/m)	0.31	=0.183Q/ds	
T (m3/s/m)	5.291E-06		
K (m/min)	0.01	=T/(Screen Length)	
K (m/s)	1.495E-07		



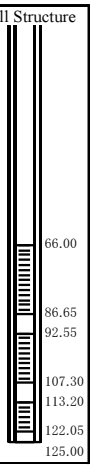
Observation

E.23 Pumping test result of Mpombwe (BH2), Sikonge District

The Study on Rural Water Supply in Tabora Region | **JICA**

BH No.	TR-054BH2	Village	Mpumbuli	Date of Submission	28-Oct-08
Borehole No.	662/2010	Ward	Kizengi	Contractor	DDCA
		District/Municipality	Tabora Rural		

Well Structure



Driling Results

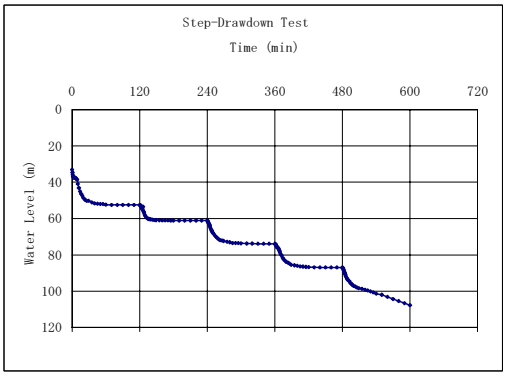
Completion Date:	19-Aug-10
Static Water Level (m)	28.00
Blown Yield (L/min)	
Casing Bottom (m)	125
Screen Position (m-m)	66.00-86.65, 92.55-107.30, 113.20-122.05

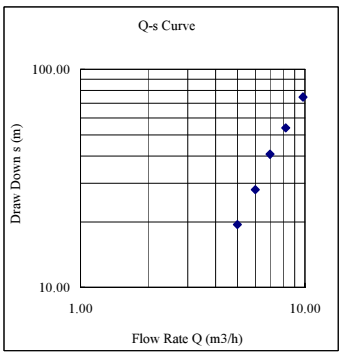
Step-Drawdown Test

Date: 6-Oct-10 - 7-Oct-10

Static Water Level (m) : 33.04 m

Step	Duration (min)	Q (m3/h)	Q (L/min)	D.W.L (m)	s (m)	Q/s (m3/h/m)
1	120	5.00	83.33	52.46	19.42	0.26
2	120	6.00	100	61.10	28.06	0.21
3	120	7.00	116.67	73.82	40.78	0.17
4	120	8.20	136.67	86.95	53.91	0.15
5	120	9.80	163.33	107.69	74.65	0.13

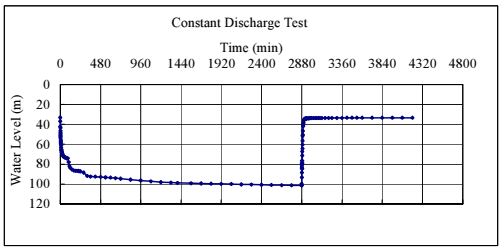




Observation

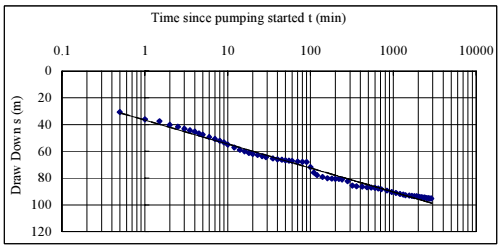
Constant Discharge Rate Pumping Test

Date:	7-Oct-10	-	13-Oct-10
Static Water Level (m)	33.09		
Duration (min)	2880		
Q	9.00 m3/h	150	L/min
D.W.L (m)	101.38		
D.W.L after 12 hr (m)	94.60		
Specific Capacity after 12hr (m3/h)	0.15		
s (m)	68.29		
Recovered D.W.L After 1hr(m)	33.96		



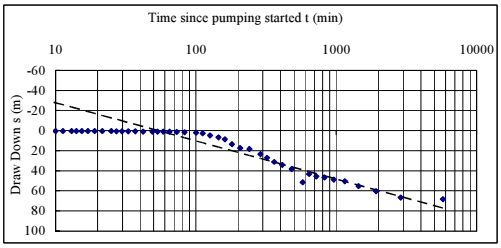
Analysis Results of Constant Dicharge Rate Pumping Test

Q	9 m3/h	150	L/min
ds1 (m)	54.546424	dt1 (min)	10
ds2 (m)	72.452591	dt2 (min)	100
ds (m)	17.906167		
Screen Pipe Length (m)	44.25		
T (L/min/m)	1.53	=0.183Q/ds	
T (m3/s/m)	2.555E-05		
K (m/min)	0.03	=T/(Screen Length)	
K (m/s)	5.774E-07		



Analysis Results of Recovery Test

Q	9 m3/h	150	L/min
ds'1 (m)	10.220049	dt/t'1	100
ds'2 (m)	48.237213	dt/t'2	1000
ds (m)	38.017165		
Screen Pipe Length (m)	44.25		
T (L/min/m)	0.72	=0.183Q/ds	
T (m3/s/m)	1.203E-05		
K (m/min)	0.02	=T/(Screen Length)	
K (m/s)	2.720E-07		



E.24 Pumping test result of Mpumbuli (BH2), Tabora Rural District

The Study on Rural Water Supply in Tabora Region | **JICA**

BH No.	TR-069BH1	Village	Mabama	Date of Submission	29-Oct-08
Borehole No.	664/2010	Ward	Mabama	Contractor	DDCA
		District/Municipality	Tabora Rural		

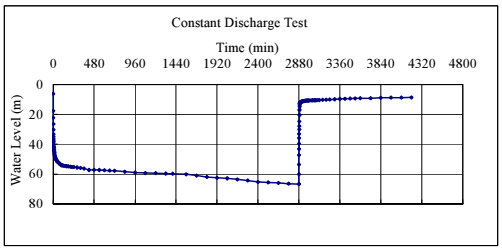
Well Structure

Driling Results

Completion Date:	9-Sep-10
Static Water Level (m)	5.00
Blown Yield (L/min)	
Casing Bottom (m)	75.7
Screen Position (m-m)	58.0-69.8

Constant Discharge Rate Pumping Test

Date:	23-Sep-10	-	25-Sep-10
Static Water Level (m)	6.21		
Duration (min)	2880		
Q	14.00 m3/h	233.33	L/min
D.W.L (m)	66.69		
D.W.L after 12 hr (m)	57.78		
Specific Capacity after 12hr (m3/h)	0.27		
s (m)	60.48		
Recovered D.W.L After 1hr(m)	11.01		

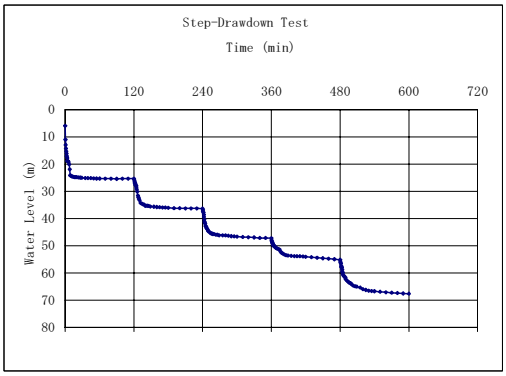


Step-Drawdown Test

Date: 22-Sep-10 - 23-Sep-10

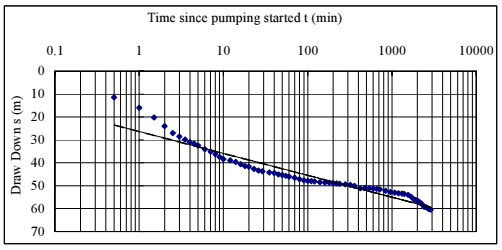
Static Water Level (m) : 5.93 m

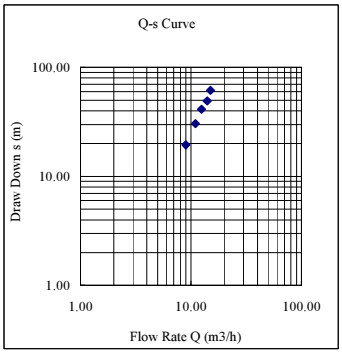
Step	Duration (min)	Q (m3/h)	Q (L/min)	D.W.L (m)	s (m)	Q/s (m3/h/m)
1	120	9.00	150	25.38	19.45	0.46
2	120	11.00	183.33	36.30	30.37	0.36
3	120	12.50	208.33	47.21	41.28	0.30
4	120	14.00	233.33	55.12	49.19	0.28
5	120	15.00	250	67.53	61.60	0.24



Analysis Results of Constant Dicharge Rate Pumping Test

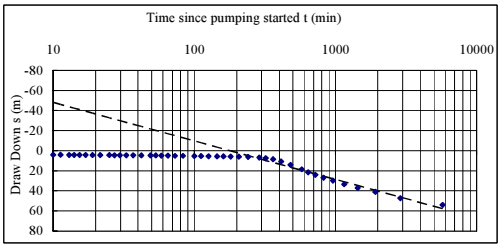
Q	14 m3/h	233.33	L/min
ds1 (m)	35.930353	dt1 (min)	10
ds2 (m)	45.453775	dt2 (min)	100
ds (m)	9.5234216		
Screen Pipe Length (m)	11.80		
T (L/min/m)	4.48	=0.183Q/ds	
T (m3/s/m)	7.473E-05		
K (m/min)	0.38	=T/(Screen Length)	
K (m/s)	6.333E-06		





Analysis Results of Recovery Test

Q	14 m3/h	233.33	L/min
ds'1 (m)	-9.736131	dt/t'1	100
ds'2 (m)	28.630767	dt/t'2	1000
ds (m)	38.366898		
Screen Pipe Length (m)	11.80		
T (L/min/m)	1.11	=0.183Q/ds	
T (m3/s/m)	1.855E-05		
K (m/min)	0.09	=T/(Screen Length)	
K (m/s)	1.572E-06		



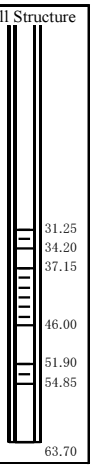
Observation

E.25 Pumping test result of Mabama(BH1), Tabora Rural District

The Study on Rural Water Supply in Tabora Region | **JICA**

BH No.	TR-069BH2	Village	Mabama	Date of Submission	28-Oct-08
Borehole No.	665/2010	Ward	Mabama	Contractor	DDCA
		District/Municipality	Tabora Rural		

Well Structure



Driling Results

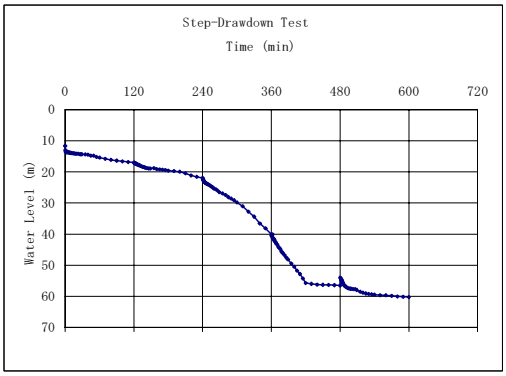
Completion Date:	13-Sep-10
Static Water Level (m)	10.60
Blown Yield (L/min)	
Casing Bottom (m)	63.7
Screen Position (m-m)	31.25-34.2, 37.15-46, 51.9-54.85

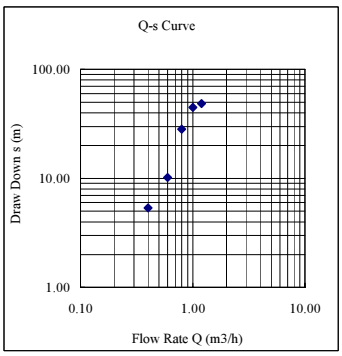
Step-Drawdown Test

Date: 14-Oct-10 - 15-Oct-10

Static Water Level (m) : 11.68 m

Step	Duration (min)	Q (m3/h)	Q (L/min)	D.W.L (m)	s (m)	Q/s (m3/h/m)
1	120	0.40	6.67	17.04	5.36	0.07
2	120	0.60	10	21.89	10.21	0.06
3	120	0.80	13.33	40.08	28.40	0.03
4	120	1.00	16.67	56.53	44.85	0.02
5	120	1.20	20	60.23	48.55	0.02

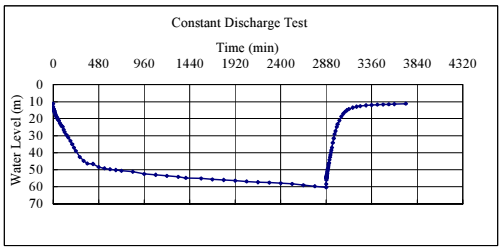




Observation

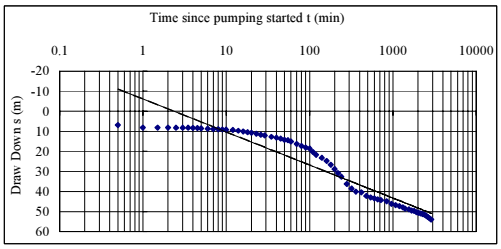
Constant Discharge Rate Pumping Test

Date:	16-Oct-10	-	16-Oct-10
Static Water Level (m)	11.20		
Duration (min)	2880		
Q	0.80 m3/h	13.33	L/min
D.W.L (m)	60.20		
D.W.L after 12 hr (m)	50.53		
Specific Capacity after 12hr (m3/h)	0.02		
s (m)	49.00		
Recovered D.W.L After 1hr(m)	16.61		



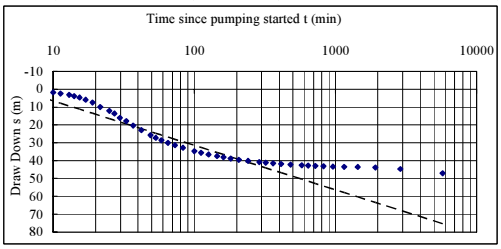
Analysis Results of Constant Dicharge Rate Pumping Test

Q	0.8 m3/h	13.33	L/min
ds1 (m)	10.37357	dt1 (min)	10
ds2 (m)	26.826901	dt2 (min)	100
ds (m)	16.453331		
Screen Pipe Length (m)	14.75		
T (L/min/m)	0.14	=0.183Q/ds	
T (m3/s/m)	2.471E-06		
K (m/min)	0.01	=T/(Screen Length)	
K (m/s)	1.675E-07		



Analysis Results of Recovery Test

Q	0.8 m3/h	13.33	L/min
ds'1 (m)	31.442544	dt/t'1	100
ds'2 (m)	56.369633	dt/t'2	1000
ds (m)	24.927089		
Screen Pipe Length (m)	14.75		
T (L/min/m)	0.09	=0.183Q/ds	
T (m3/s/m)	1.631E-06		
K (m/min)	0.01	=T/(Screen Length)	
K (m/s)	1.106E-07		

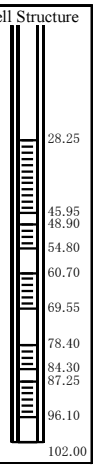


E.26 Pumping test result of Mabama (BH2), Tabora Rural District

The Study on Rural Water Supply in Tabora Region | **JICA**

BH No.	TU-008BH1	Village	Kakola	Date of Submission	28-Oct-08
Borehole No.	663/2010	Ward	Kakola	Contractor	DDCA
		District/Municipality	Tabora Urban		

Well Structure

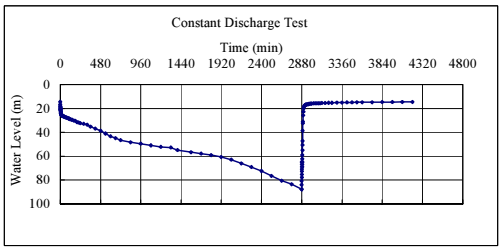


Driling Results

Completion Date:	31-Aug-10
Static Water Level (m)	14.50
Blown Yield (L/min)	
Casing Bottom (m)	102
Screen Position (m-m)	28.25-45.95, 48.90-54.80, 60.70-69.55, 78.40-84.30, 87.25-96.10

Constant Discharge Rate Pumping Test

Date:	3-Oct-10	-	5-Oct-10
Static Water Level (m)	14.35		
Duration (min)	2880		
Q	6.00 m3/h	100	L/min
D.W.L (m)	87.87		
D.W.L after 12 hr (m)	46.58		
Specific Capacity after 12hr (m3/h)	0.19		
s (m)	73.52		
Recovered D.W.L After 1hr(m)	16.61		

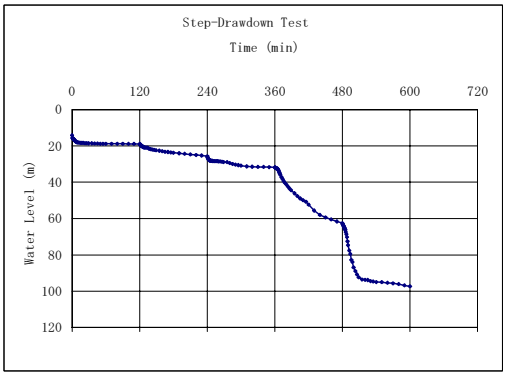


Step-Drawdown Test

Date: 2-Oct-10 - 2-Oct-10

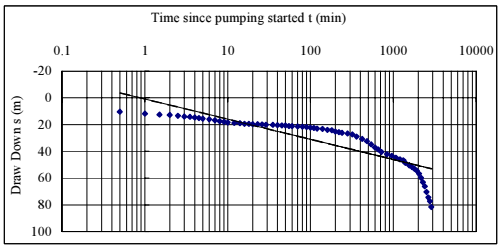
Static Water Level (m) : 14.06 m

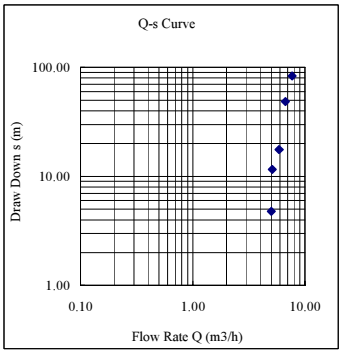
Step	Duration (min)	Q (m3/h)	Q (L/min)	D.W.L (m)	s (m)	Q/s (m3/h/m)
1	120	5.00	83.33	18.84	4.78	1.05
2	120	5.10	85	25.64	11.58	0.44
3	120	5.90	98.33	31.70	17.64	0.33
4	120	6.70	111.67	62.54	48.48	0.14
5	120	7.70	128.33	97.28	83.22	0.09



Analysis Results of Constant Dicharge Rate Pumping Test

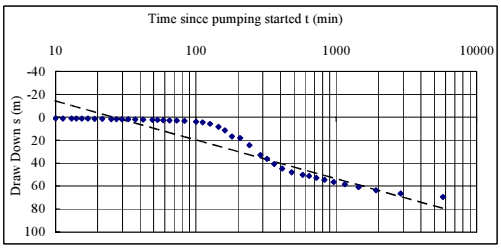
Q	6 m3/h	100	L/min
ds1 (m)	15.945614	dt1 (min)	10
ds2 (m)	31.005345	dt2 (min)	100
ds (m)	15.059731		
Screen Pipe Length (m)	47.20		
T (L/min/m)	1.21	=0.183Q/ds	
T (m3/s/m)	2.025E-05		
K (m/min)	0.03	=T/(Screen Length)	
K (m/s)	4.291E-07		





Analysis Results of Recovery Test

Q	6 m3/h	100	L/min
ds'1 (m)	19.737217	dt/t'1	100
ds'2 (m)	53.603489	dt/t'2	1000
ds (m)	33.866271		
Screen Pipe Length (m)	47.20		
T (L/min/m)	0.54	=0.183Q/ds	
T (m3/s/m)	9.006E-06		
K (m/min)	0.01	=T/(Screen Length)	
K (m/s)	1.908E-07		



Observation

E.27 Pumping test result of Kakola(BH1), Tabora Urban Municipal District

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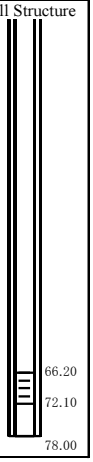
BH No.	IG-007BH1	Village	Igumo	Date of Submission	28-Oct-08
Borehole No.	675/2010	Ward	Chabutwa	Contractor	DDCA
		District/Municipality	Igunga		

Well Structure



Driling Results

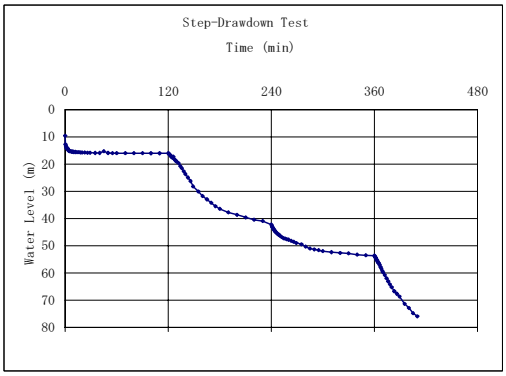
Completion Date:	28-Sep-10
Static Water Level (m)	3.00
Blown Yield (L/min)	
Casing Bottom (m)	78
Screen Position (m-m)	66.2-72.1

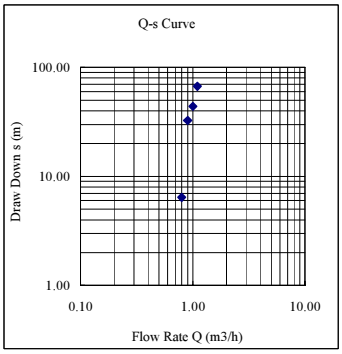
Step-Drawdown Test

Date: 27-Oct-10 - 27-Oct-10

Static Water Level (m) : 9.61 m

Step	Duration (min)	Q (m3/h)	Q (L/min)	D.W.L (m)	s (m)	Q/s (m3/h/m)
1	120	0.80	13.33	16.03	6.42	0.12
2	120	0.90	15	42.19	32.58	0.03
3	120	1.00	16.67	53.63	44.02	0.02
4	50	1.10	18.33	76.57	66.96	0.02
5					(9.61)	0.00

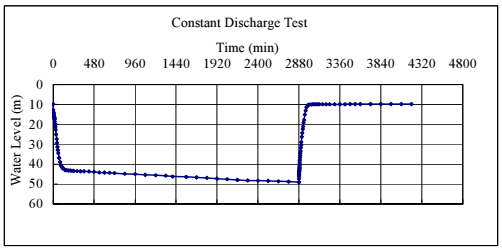




Observation

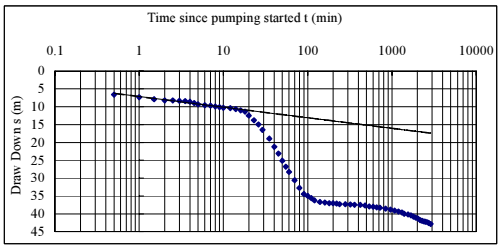
Constant Discharge Rate Pumping Test

Date:	27-Oct-10	-	27-Oct-10	
Static Water Level (m)	9.82			
Duration (min)	2880			
Q	1.00	m3/h	16.67	L/min
D.W.L (m)	49.03			
D.W.L after 12 hr (m)	44.51			
Specific Capacity after 12hr (m3/h)	0.03			
s (m)	39.21			
Recovered D.W.L After 1hr(m)	17.76			



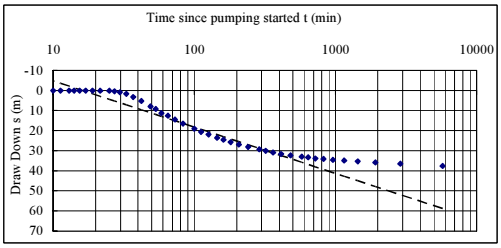
Analysis Results of Constant Dicharge Rate Pumping Test

Q	1	m3/h	16.67	L/min
ds1 (m)	10.120477	dt1 (min)		10
ds2 (m)	13.081651	dt2 (min)		100
ds (m)	2.9611743			
Screen Pipe Length (m)	5.90			
T (L/min/m)	1.03	=0.183Q/ds		
T (m3/s/m)	1.717E-05			
K (m/min)	0.17	=T/(Screen Length)		
K (m/s)	2.910E-06			



Analysis Results of Recovery Test

Q	1	m3/h	16.67	L/min
ds'1 (m)	18.249956	dt/t'1		100
ds'2 (m)	41.307933	dt/t'2		1000
ds (m)	23.057977			
Screen Pipe Length (m)	5.90			
T (L/min/m)	0.13	=0.183Q/ds		
T (m3/s/m)	2.205E-06			
K (m/min)	0.02	=T/(Screen Length)		
K (m/s)	3.737E-07			



E.28 Pumping test result of Igumo(BH1), Igunga District

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E.28 Water quality analysis result by the laboratory

Physical & Chemical Parameters	Unit	Isanga (BH1)	Isanga (BH2)	Kakola (BH1)	Mpumbuli (BH1)	Mabama (BH1)	Mabama (BH2)	Mpombwe (BH1)	Usunga (BH1)	Usunga (BH2)	Igumo (BH1)
Turbidity	NTU	0.99	2.53	0.964	0.861	3.81	0.644	942	1575	3.03	0.44
pH		7.6	7.4	7.7	7.7	7.1	7.2	7.6	7.5	7.8	7.8
Colour	mgPt/L	NIL	NIL	NIL	NIL	NIL	NIL	NIL	Pale brown	NIL	NIL
Electrical Conductivity	µS/cm	864	687	1200	1370	1183	1181	835	937	268	1038
Total Filterable residue*4	mg/l	475.2	377.8	600	685	592	590	459.2	468	134	570.9
Odour	TON	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Taste		NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
Nitrate	mgNo_3/l	0.479	0.170	0.02	0.5	0.29	1.76	0.477	1	0.9	0.291
Nitrite	mgNO_2/L	0.01	NIL	NIL	0.01	0.01	0.02	0.02	0.6	0.01	0.002
Phenolphalein Alkalinity	mg$CaCo_3$/L	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Total Alkalinity	mkg$CaCo_3$/L	400	350	300	250	500	350	200	450	50	400
Non Carbonate Hardness	mg$CaCo_3$/L	NIL	NIL	125	NIL	NIL	NIL	25	NIL	75	NIL
Total Hardness	mg$CaCo_3$/L	300	300	425	200	325	200	225	200	125	250
Arsenic	mg/L	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Bicarbonate (HCo_3)	mgCo_3/L	300	300	300	200	325	200	200	200	50	250
Calcium	mg/l	80	60	160	50	100	70	50	60	40	60
Magnesium	mg/l	24.3	36.48	6.08	18.24	18.24	6.08	24.3	12.16	6.08	24.32
Manganese	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	1.5	0.05	NIL	NIL
Zinc	mg/l	NIL	0.001	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Iron	mg/l	NIL	NIL	NIL	0.02	NIL	0.02	3.02	0.64	NIL	NIL
Chloride	mg/l	88.6	53.1	159.5	212.7	124.07	141.8	88.6	194.97	53.17	70.9
Sulphate (SO_4)	mg/l	NIL	NIL	48	250	NIL	70	1.7	8	9.6	18.72
Nickel	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Sodium	mg/l	60.2	18.8	79.81	220.5	121.9	176.41	86.9	119.37	3.22	121.4
Potassium	mg/l	1.5	2.4	2.1	4.9	1.7	6.0	3.3	7.7	2.2	4.6
Lead (Pb)	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Fluoride	mg/l	2.4	1.1	1.61	3.95	1.50	2.24	1.1	1.46	2.53	7
Copper (Cu)	mg/l	NIL	NIL	NIL	0.001	NIL	0.002	0.001	0.001	NIL	NIL
Ammonium (NH_3+ NH_4)	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	0.001	NIL
Orthophosphate	mg/l	NIL	NIL	NIL	NIL	NIL	0.001	NIL	NIL	NIL	NIL
Temperature	°C	28.6	28.7	25	28	26	26	28.8	26.5	26	28.7
Cadmium (Cd)	mg/l	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
BACTERIOLOGICAL	Count/100mL										
Total Coliform		NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
Escherichia coli		NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

E.30 Water quality measured in the study team office with simple method (1/4)

Date		District	Village		Site	Coordinate			Facility	Stage	Detail	F		F(median)	Conductivity	pH	ORP	Temp.
Sampling	Analysis						X	Y				mg/L			mS/m		mV	℃
2010/10/6	2010/10/10	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Pumping Test	Preliminary 1 hour	4.9	5	4.95	151.7	7.37		
2010/10/6	2010/10/10	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Pumping Test	Preliminary 3 hours	4.6	4.6	4.6	152.7	7.67		
2010/10/6	2010/10/10	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Pumping Test	Step 1st	4.6	4.7	4.65	153	7.67		
2010/10/6	2010/10/10	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Pumping Test	Step 2nd	4.8	4.9	4.85	153.7	7.63		
2010/10/6	2010/10/10	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Pumping Test	Step 3rd	4.7	4.7	4.7	154	7.69		
2010/10/6	2010/10/10	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Pumping Test	Step 4th	4.8	4.8	4.8	153.7	7.65		
2010/10/6	2010/10/10	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Pumping Test	Step 5th	4.8	4.8	4.8	154.1	7.59		
2010/10/7	2010/10/10	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Pumping Test	Constant 10H	4.7	4.8	4.75	153.8	7.71		
2010/10/8	2010/10/10	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Pumping Test	Constant 20H	4.6	4.7	4.65	154.8	7.67		
2010/10/7	2010/10/10	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Pumping Test	Constant 30H	4.8	4.9	4.85	154.3	7.6		
2010/10/9	2010/10/10	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Pumping Test	Constant 40H	4.8	4.9	4.85	155.3	7.64		
2010/10/9	2010/10/10	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Pumping Test	Constant 48H	4.9	5	4.95	155.3	7.62		
2010/8/24	2010/8/24	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Development	185min. 6.9m3/h				164.7	8.47		28.4
2010/8/24	2010/8/24	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Development	220min. 6.9m3/h				165.6	8.56		
2010/8/24	2010/8/24	Tabora Rural	Mpumbuli	2	TR-054BH2	36M	0549469	9413752	Test Well	Development	240min. 7.0m3/h				165.6	8.56		
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	30m First strike				136.5	8.03	120	
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	31m, 3.8m3/h					8.03	107	28.8
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	36m, 4.6m3/h				137	8.02	109	28.8
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	42m, 4.7m3/h				136	8.9		28.6
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	45m, 4.7m3/h				129.3	7.89		28.6
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	49m	1.32	1.43	1.375	130.2	7.95	147	28.6
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	54m, 5.2m3/h				131.7	7.78	114	27.1
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	60m, 5.4m3/h	1.34	1.43	1.385	133.6	7.81	135	27.4
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	66m, 4.7m3/h				133.1	7.9	136	27.1
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	72m, 4.8m3/h				134.1	7.86	128	26.8
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	78m, 4.6m3/h	1.33	1.41	1.37	129.8	7.89	117	26.6
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	82m, 6.1m3/h	1.24	1.28	1.26	136.4	8.09	97	26.6
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	84m, 7.1m3/h	1.22	1.32	1.27	130.8	7.98	111	26.7
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	90m, 6.8m3/h	1.24	1.29	1.265	131.7	7.97	100	27.2
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	96m, 7.7m3/h	1.24	1.31	1.275	132	7.92	60	27.2
2010/8/28	2010/8/28	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	102m, 7.0m3/h	1.28	1.3	1.29	128.5	7.9	80	27.4
2010/8/30	2010/8/30	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Drilling	108m, 6.9m3/h	1.22	1.3	1.26	127.4	7.85	72	28.8
2010/8/30	2010/8/30	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Development	60min.				136.5	8.28		26.7
2010/8/30	2010/8/30	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Development	105min.				135.6	8.26		26.7
2010/8/30	2010/8/30	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Development	130min.				136.2	8.26		26.3
2010/8/30	2010/8/30	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Development	330min., 5.5m3/h				131.4	8.22		26
2010/9/7	2010/9/7	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Drilling	61m, 6.6m3/h	1.79	1.86	1.825	105.3	8.56	-14	27
2010/9/7	2010/9/7	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Drilling	67m, 9.0m3/h	1.96	1.97	1.965	111.2	8.3	-2	26.1
2010/9/7	2010/9/7	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Drilling	73m, 11.0m3/h	2	2.1	2.05	113.3	8.33	7	26.8
2010/9/7	2010/9/7	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Drilling	79m, 11.7m3/h	2.3	2.4	2.35	116.6	8.36		26.4
2010/9/9	2010/9/9	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Step 4th, 5.0m3/h	1.27	1.34	1.305		6.76		
2010/9/9	2010/9/9	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Step 5th, 6.0m3/h	1.1	1.21	1.155		7.81		
2010/9/9	2010/9/9	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Step 1st, 6.0m3/h	1.19	1.22	1.205		6.8		
2010/9/9	2010/9/9	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Step 2nd, 7.0m3/h	1.12	1.2	1.16		7.1		
2010/9/12	2010/9/12	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Step 1st	2.5	2.5	2.5	135.2	7.08		
2010/9/12	2010/9/12	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Step 2nd	2.5	2.6	2.55	124.6	6.71		
2010/9/12	2010/9/12	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Step 3rd	2.5	2.6	2.55	124.9	6.72		
2010/9/12	2010/9/12	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Step 4th	2.6	2.6	2.6	127.4	6.72		
2010/9/12	2010/9/12	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Step 5th	2.6	2.6	2.6	127.6	6.69		
2010/9/13	2010/9/13	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Drilling	First strike 30m	4.7	4.7	4.7	162.2	8.26		
2010/9/13	2010/9/13	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Drilling	44m	3.7	3.9	3.8	161.4	8.62		
2010/9/13	2010/9/13	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Drilling	48m	3.7	3.8	3.75	138.3	8.22		
2010/9/13	2010/9/13	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Development	1.5h	3.4	3.6	3.5	134.8	8.65		
2010/9/13	2010/9/13	Sikonge	Mpombwe	1	SK-037BH1	36M	0466529	9402556	Test Well	Drilling	1st strike	1.41	1.43	1.42	122.9	8.38		

E.30 Water quality measured in the study team office with simple method (2/4)

Date		District	Village		Site	Coordinate			Facility	Stage	Detail	F		F(median)	Conductivity	pH	ORP	Temp.
Sampling	Analysis						X	Y				mg/L			mS/m		mV	℃
2010/9/16	2010/9/16	Sikonge	Usunga	1	SK-028BH1	36M	0492530	9368238	Test Well	Drilling	17m	2.1	2.3	2.2	148.3	8.26		
2010/9/17	2010/9/17	Sikonge	Usunga	1	SK-028BH1	36M	0492530	9368238	Test Well	Drilling	Morning	2.1	2.2	2.15	172.7	7.02		
2010/9/17	2010/9/17	Tabora Rural	Mabama	3	TR-069BH3	36M	0448517	9433250	Test Well	Drilling	End	3.1	3.2	3.15	134.5	8.16		
2010/9/19	2010/9/19	Sikonge	Usunga	2	SK-028BH2	36M	0494744	9368375	Test Well	Drilling	End	2.2	2.3	2.25				
2010/9/14	2010/9/13	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Development	60m	3.5	3.8	3.65	162.3	7.44		
2010/9/14	2010/9/18	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Development	240m	3.3	3.6	3.45	146.2	7.75		
2010/9/15	2010/9/18	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Pumping Test	Preliminary	2.7	2.7	2.7	145.7	7.29		
2010/9/16	2010/9/18	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Pumping Test	Step 1st, 0.4m3/h	2.9	3	2.95	143	7.43		
2010/9/16	2010/9/18	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Pumping Test	Step 2nd, 0.6m3/h	2.7	2.7	2.7	137.1	7.43		
2010/9/16	2010/9/18	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Pumping Test	Step 3rd, 0.8m3/h	2.9	3	2.95	143.3	7.51		
2010/9/16	2010/9/18	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Pumping Test	Step 4th, 1.0m3/h	2.9	2.9	2.9	144.5	7.48		
2010/9/17	2010/9/18	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Pumping Test	Constant 0.8, 10H	2.9	3	2.95	144.4	7.44		
2010/9/17	2010/9/18	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Pumping Test	Constant 0.8, 20H	2.7	2.8	2.75	142	7.42		
2010/9/18	2010/9/18	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Pumping Test	Constant 0.8, 30H	2.8	2.8	2.8	143.9	7.35		
2010/9/18	2010/9/18	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Pumping Test	Constant 0.8, 40H	2.8	2.8	2.8	143.2	7.52		
2010/9/18	2010/9/18	Tabora Rural	Mabama	2	TR-069BH2	36M	0448362	9433208	Test Well	Pumping Test	Constant 0.8, 48H	2.7	2.8	2.75	144.5	7.45		
2010/9/22	2010/9/26	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Step 1st, 9m3/h	2	2.1	2.05	136	7.22		
2010/9/22	2010/9/26	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Step 2st, 11m3/h	2	2	2	127	7.09		
2010/9/22	2010/9/26	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Step 3st, 12.5m3/h	2	2.1	2.05	127.3	7.08		
2010/9/22	2010/9/26	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Step 4st, 14m3/h	2.1	2.2	2.15	129.9	7.16		
2010/9/22	2010/9/26	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Step 5st, 15m3/h	2.2	2.3	2.25	131.7	6.67		
2010/9/23	2010/9/26	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Constant, 10H	2.1	2.2	2.15	137.8	7		
2010/9/23	2010/9/26	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Constant, 20H	2.1	2.3	2.2	141.1	7		
2010/9/24	2010/9/26	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Constant, 30H	2	2.2	2.1	144.1	6.95		
2010/9/24	2010/9/26	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Constant, 40H	2.1	2.2	2.15	129.3	7.02		
2010/9/24	2010/9/26	Tabora Rural	Mabama	1	TR-069BH1	36M	0448218	9433981	Test Well	Pumping Test	Constant, 48H	2.1	2.4	2.25	144.3	6.94		
2010/9/25	2010/9/26	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Drilling	26m	1.58	1.67	1.625	105.3	7.48		
2010/9/25	2010/9/26	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Drilling	49m	1.21	1.26	1.235	0.2	7.75		
2010/9/25	2010/9/26	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Drilling	60m	1.14	1.16	1.15	106.7	7.67		
2010/9/25	2010/9/26	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Drilling	80m	1.16	1.19	1.175	101.6	7.84		
2010/9/27	2010/9/27	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Drilling	26m	5.2	5.3	5.25	114.5	8.01		
2010/9/27	2010/9/27	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Drilling	36m	4.9	5.1	5	105.5	7.56		
2010/9/27	2010/9/27	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Drilling	67m	3.9	4.1	4	107.5	7.59		
2010/9/27	2010/9/27	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Drilling	80m	4	4.1	4.05	119.2	8.11		
2010/9/28	2010/9/28	Nzega	Isanga			36M	0524156	9550934	River	River Water	Near Drilling site	1.36	1.39	1.375				
2010/9/28	2010/9/28	Nzega	Isanga	2	NZ-047BH2	36M	0523911	9550830	Test Well	Drilling	43m	1.09	1.13	1.11	67.4	7.87		
2010/9/28	2010/9/28	Nzega	Isanga	2	NZ-047BH2	36M	0523911	9550830	Test Well	Drilling	54m	0.78	0.85	0.815	71.4	7.74		
2010/9/28	2010/9/28	Nzega	Isanga	2	NZ-047BH2	36M	0523911	9550830	Test Well	Drilling	81m	0.68	0.71	0.695	73.5	7.75		
2010/9/27	2010/10/4	Sikonge	Usunga	2	SK-028BH2	36M	0494744	9368375	Test Well	Pumping Test	Step 1st, 0.4m3/h	1.8	1.93	1.865	55.4	7.61		
2010/9/27	2010/10/4	Sikonge	Usunga	2	SK-028BH2	36M	0494744	9368375	Test Well	Pumping Test	Step 2nd, 0.6m3/h	1.48	1.61	1.545	31.9	7.33		
2010/9/27	2010/10/4	Sikonge	Usunga	2	SK-028BH2	36M	0494744	9368375	Test Well	Pumping Test	Step 3rd, 0.8m3/h	1.46	1.59	1.525	31.7	7.31		
2010/9/27	2010/10/4	Sikonge	Usunga	2	SK-028BH2	36M	0494744	9368375	Test Well	Pumping Test	Step 4th, 1.0m3/h	1.82	1.87	1.845	32	7.34		
2010/9/27	2010/10/4	Sikonge	Usunga	2	SK-028BH2	36M	0494744	9368375	Test Well	Pumping Test	Step 5th, 1.2m3/h	1.79	1.87	1.83	31.8	7.34		
2010/9/28	2010/10/4	Sikonge	Usunga	2	SK-028BH2	36M	0494744	9368375	Test Well	Pumping Test	Constant 10H	1.96	2	1.98	32.2	7.39		
2010/9/28	2010/10/4	Sikonge	Usunga	2	SK-028BH2	36M	0494744	9368375	Test Well	Pumping Test	Constant 20H	2.1	2	2.05	31.9	7.39		
2010/9/29	2010/10/4	Sikonge	Usunga	2	SK-028BH2	36M	0494744	9368375	Test Well	Pumping Test	Constant 30H	1.89	2	1.945	32.5	7.38		
2010/9/29	2010/10/4	Sikonge	Usunga	2	SK-028BH2	36M	0494744	9368375	Test Well	Pumping Test	Constant 40H	2	2.1	2.05	32.7	7.41		
2010/9/29	2010/10/4	Sikonge	Usunga	2	SK-028BH2	36M	0494744	9368375	Test Well	Pumping Test	Constant 48H	1.96	2	1.98	32.1	7.47		
2010/9/25	2010/10/4								Existing Well	HPRP-28	HP	0.2	0.23	0.215	6.5	6.05		
2010/9/25	2010/10/4					36M	0540003	9244735	Existing Well	HPRP-31	HP	0.08	0.09	0.085	5.9	7.38		
2010/9/26	2010/10/4	Tabora Rural	Mabama			36M	0447574	9434083	Existing Well	Near Mabama-1	NPW	0.185	0.187	0.186	9	5.73		
2010/9/26	2010/10/4	Igunga	Igumo			36M	0551674	94993828	Existing Well		PW	0.19	0.2	0.195	15.2	6.2		
2010/9/24	2010/10/4	Sikonge	Usunga-2			36M	0496531	9375370	Existing Well	DDCA	TANIRA	0.39	0.42	0.405	19.5	6.3		
2010/9/24	2010/10/4	Sikonge	Usunga-3			36M	0492657	9369842	Existing Well	DDCA	TANIRA	0.2	0.21	0.205	18.2	5.9		

E.30 Water quality measured in the study team office with simple method (3/4)

Date		District	Village		Site	Coordinate			Facility	Stage	Detail	F	F(median)	Conductivity	pH	ORP	Temp.
Sampling	Analysis						X	Y				mg/L		mS/m		mV	℃
2010/9/24	2010/10/4	Sikonge	Usunga-1			36M	0496376	9365105	Existing Well	DDCA	TANIRA	0.37 - 0.39	0.38	24.3	6.11		
2010/9/27	2010/10/4	Igunga	Buhekela			36M	0578812	9472253	Existing Well		PW	0.64 - 0.69	0.665	20.3	6.1		
2010/9/25	2010/10/4					36M	0504437	9460978	Existing Well	HPRP-33	HP	0.84 - 0.92	0.88	26.4	6.07		
2010/10/2	2010/10/6	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Preliminary 2H	1.23 - 1.23	1.23	147.3	6.56		
2010/10/2	2010/10/6	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Preliminary 4H	1.21 - 1.22	1.215	144.5	7.07		
2010/10/2	2010/10/6	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Step 1st, 4.3m3/h	1.27 - 1.29	1.28	87.3	7.33		
2010/10/2	2010/10/6	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Step 2nd, 5.1m3/h	1.21 - 1.23	1.22	143.4	7.17		
2010/10/2	2010/10/6	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Step 3rd, 5.9m3/h	1.21 - 1.24	1.225	139.9	7.24		
2010/10/2	2010/10/6	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Step 4th, 6.7m3/h	1.26 - 1.28	1.27	142.8	7.34		
2010/10/2	2010/10/6	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Step 5th, 7.7m3/h	1.25 - 1.28	1.265	143.3	7.12		
2010/10/3	2010/10/6	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Constant 10H	1.19 - 1.22	1.205	143.4	7.13		
2010/10/3	2010/10/6	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Constant 20H	1.21 - 1.24	1.225	144	7.17		
2010/10/4	2010/10/6	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Constant 30H	1.27 - 1.29	1.28	142.5	7.18		
2010/10/4	2010/10/6	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Constant 40H	1.28 - 1.3	1.29	143.2	7.08		
2010/10/4	2010/10/6	Tabora Urban	Kakola	1	TU-008BH1	36M	0482083	9462843	Test Well	Pumping Test	Constant 48H	1.21 - 1.22	1.215	143.3	7.13		
2010/10/4	2010/10/6					36M	420393	9508729	Existing Well	HPRP-36	HP	0.63 - 0.65	0.64	31.9	6.6		
2010/10/12	2010/10/20	Sikonge	Usunga	1	SK-028BH1	36M	0492530	9368238	Test Well	Pumping Test	60min.	1.44 - 1.46	1.45	90.7	7.72		
2010/10/12	2010/10/20	Sikonge	Usunga	1	SK-028BH1	36M	0492530	9368238	Test Well	Pumping Test	90min.	1.16 - 1.18	1.17	106.1	7.45		
2010/10/15	2010/10/20	Sikonge	Usunga			36M	0492721	9368314	Existing well		NPW	0.52 - 0.54	0.53	35.9	6.96		
2010/10/15	2010/10/20	Sikonge	Mpombwe	2	SK-037BH2	36M	0465785	9405719	Test Well	Pumping Test	60min.	0.69 - 0.71	0.7	111.2	7.57		
2010/10/15	2010/10/20	Sikonge	Mpombwe	2	SK-037BH2	36M	0465785	9405719	Test Well	Pumping Test	120min.	0.61 - 0.62	0.615	108.6	7.53		
2010/10/23	2010/10/23	Tabora Urban	Office						Rain Water		Puddle	0.1 - 0.1	0.1	6.43	8.85		
2010/10/23	2010/10/23	Tabora Urban	Office						Rain Water		Hotel roof	0.07 - 0.07	0.07	10.04	7.67		
2010/10/23	2010/10/23	Tabora Urban	Office						PET Bottled water		In the market	0.33 - 0.39	0.36	24.8	7.2		
2010/10/17	2010/10/23	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Pumping Test	Preliminary 90min	1.49 - 1.5	1.495	102.4	7.57		
2010/10/17	2010/10/23	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Pumping Test	Preliminary 180min	1.39 - 1.4	1.395	111.7	7.44		
2010/10/17	2010/10/23	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Pumping Test	Step 1st, 2.5m3/h	1.39 - 1.4	1.395	110	7.3		
2010/10/17	2010/10/23	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Pumping Test	Step 2nd, 3.0m3/h	1.5 - 1.54	1.52	110.9	7.32		
2010/10/17	2010/10/23	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Pumping Test	Step 3rd, 3.5m3/h	1.44 - 1.46	1.45	109.7	7.29		
2010/10/17	2010/10/23	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Pumping Test	Step 4th, 4.0m3/h	1.43 - 1.46	1.445	109.6	7.43		
2010/10/17	2010/10/23	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Pumping Test	Step 5th, 4.5m3/h	1.49 - 1.5	1.495	108.6	7.09		
2010/10/17	2010/10/23	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Pumping Test	Constant 10H	1.4 - 1.41	1.405	110.1	7.39		
2010/10/18	2010/10/23	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Pumping Test	Constant 20H	1.43 - 1.46	1.445	106.5	7.43		
2010/10/18	2010/10/23	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Pumping Test	Constant 30H	1.42 - 1.49	1.455	110.8	7.38		
2010/10/18	2010/10/23	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Pumping Test	Constant 40H	1.31 - 1.34	1.325	109.9	7.33		
2010/10/19	2010/10/23	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Pumping Test	Constant 48H	1.48 - 1.5	1.49	110.4	7.41		
2010/10/19	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Preliminary 90min	0.85 - 0.86	0.855	84.6	7.41		
2010/10/19	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Preliminary 180min	0.75 - 0.77	0.76	79.1	7.39		
2010/10/19	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Preliminary 240min	0.75 - 0.79	0.77	79.2	6.97		
2010/10/20	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Step 1st, 1.8m3/h	0.76 - 0.8	0.78	78.8	7.53		
2010/10/20	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Step 2nd, 2.3m3/h	0.76 - 0.81	0.785	78.3	7.41		
2010/10/20	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Step 3rd, 2.8m3/h	0.79 - 0.86	0.825	79.9	7.32		
2010/10/20	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Step 4th, 3.3m3/h	0.85 - 0.89	0.87	79.8	7.28		
2010/10/20	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Step 5th, 4.0m3/h	0.84 - 0.86	0.85	80.8	7.13		
2010/10/20	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Constant 10H	0.95 - 0.94	0.945	87.5	7.15		
2010/10/21	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Constant 20H	0.93 - 0.93	0.93	84.8	7.07		
2010/10/21	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Constant 30H	0.87 - 0.87	0.87	84.6	7.06		
2010/10/21	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Constant 40H	0.96 - 0.96	0.96	89.4	7.07		
2010/10/22	2010/10/23	Nzega	Isanga	2	NZ-047BH2	36M	0524030	9550844	Test Well	Pumping Test	Constant 48H	0.87 - 0.86	0.865	87.4	7.07		
2010/10/24	2010/10/29	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Double Pumping Test	Constant 5H	1.71 - 1.71	1.71	111.4	7.45		
2010/10/24	2010/10/29	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Double Pumping Test	Constant 10H	1.74 - 1.74	1.74	111.3	7.27		
2010/10/24	2010/10/29	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Double Pumping Test	Constant 15H	1.66 - 1.67	1.665	109.7	7.27		
2010/10/25	2010/10/29	Nzega	Isanga	1	NZ-047BH1	37M	0523911	9550830	Test Well	Double Pumping Test	Constant 20H	1.68 - 1.69	1.685	110.2	7.3		
2010/10/25	2010/10/29	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Double Pumping Test	Constant 25H	1.71 - 1.72	1.715	110.8	7.32		

E.30 Water quality measured in the study team office with simple method (4/4)

Date		District	Village		Site	Coordinate			Facility	Stage	Detail	F		F(median)	Conductivity	pH	ORP	Temp.
Sampling	Analysis						X	Y				mg/L			mS/m		mV	℃
2010/10/25	2010/10/29	Nzega	Isanga	1	NZ-047BH1	36M	0523911	9550830	Test Well	Double Pumping Test	Constant 30H	1.67	1.68	1.675	110.4	7.31		
2010/10/24	2010/10/29	Nzega	Isanga	2	NZ-047BH2	36M	0523911	9550830	Test Well	Double Pumping Test	Constant 5H	1.03	1.03	1.03	86.5	7.38		
2010/10/24	2010/10/29	Nzega	Isanga	2	NZ-047BH2	36M	0523911	9550830	Test Well	Double Pumping Test	Constant 10H	1.02	1.01	1.015	86.2	7.11		
2010/10/24	2010/10/29	Nzega	Isanga	2	NZ-047BH2	36M	0523911	9550830	Test Well	Double Pumping Test	Constant 15H	0.99	1	0.995	87.4	7.01		
2010/10/25	2010/10/29	Nzega	Isanga	2	NZ-047BH2	36M	0523911	9550830	Test Well	Double Pumping Test	Constant 20H	0.99	1	0.995	88.6	7.05		
2010/10/25	2010/10/29	Nzega	Isanga	2	NZ-047BH2	36M	0523911	9550830	Test Well	Double Pumping Test	Constant 25H	1	1	1	86.1	7.03		
2010/10/25	2010/10/29	Nzega	Isanga	2	NZ-047BH2	36M	0523911	9550830	Test Well	Double Pumping Test	Constant 30H	0.99	1	0.995	89.4	7.05		
2010/10/25	2010/10/29	Nzega	Isanga				0523832	9550665	Existing Well		HDW	9.3	9.5	9.4	190.09	7.78		
2010/10/26	2010/10/31	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Pumping Test	Preliminary 90min	6	6	6	113.3	7.51		
2010/10/26	2010/10/31	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Pumping Test	Preliminary 180min	5.5	5.5	5.5	120.3	7.51		
2010/10/27	2010/10/31	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Pumping Test	Step 1st, 0.8m3/h	5.3	5.3	5.3	118.6	7.71		
2010/10/27	2010/10/31	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Pumping Test	Step 2nd, 0.9m3/h	5.3	5.3	5.3	112.2	7.67		
2010/10/27	2010/10/31	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Pumping Test	Step 3rd, 1.0m3/h	5.3	5.6	5.45	115.5	7.61		
2010/10/27	2010/10/31	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Pumping Test	Step 4th, 1.1m3/h	5.7	5.7	5.7	121.5	7.43		
2010/10/27	2010/10/31	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Pumping Test	Constant 10H	5.2	5.2	5.2	118.6	7.65		
2010/10/27	2010/10/31	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Pumping Test	Constant 20H	5.2	5.3	5.25	118.3	7.68		
2010/10/28	2010/10/31	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Pumping Test	Constant 30H	5.4	5.4	5.4	121.1	7.64		
2010/10/28	2010/10/31	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Pumping Test	Constant 40H	5.4	5.4	5.4	120.5	7.67		
2010/10/29	2010/10/31	Igunga	Igumo	1	IG-007BH1	36M	0551014	9495593	Test Well	Pumping Test	Constant 48H	5.4	5.4	5.4	120.3	7.61		
2010/10/26	2010/10/26	Tabora Urban	Orion Hotel						Rain Water			0.046	0.047	0.0465	7.23	6.73		

Data Book F

Hydraulic Calculation Data of Transmission and Distribution Line

Hydraulic Calculation Data

1 Provisional Pump Plan for Level-2 Facility

Provisional Pump Plan(Isanga)

Provisional Pump Plan(Mpumbuli)

Provisional Pump Plan(Mabama)

Provisional Pump Plan(Kakola)

2 Distribution Hydraulic Calculation for Level-2 Facility

Distribution Hydraulic Calculation(Isanga)

Distribution Hydraulic Calculation(Mpumbuli)

Distribution Hydraulic Calculation(Mabama)

Distribution Hydraulic Calculation(Kakola)

3 Distribution Hydraulic Calculation Diagram for Level-2 Facility

Distribution Hydraulic Calculation Diagram- Node Analysis - (Isanga)

Distribution Hydraulic Calculation Diagram- Pipeline Analysis - (Isanga)

Distribution Hydraulic Calculation Diagram- Node Analysis - (Mpumbuli)

Distribution Hydraulic Calculation Diagram- Pipeline Analysis - (Mpumbuli)

Distribution Hydraulic Calculation Diagram- Node Analysis - (Mabama)

Distribution Hydraulic Calculation Diagram- Pipeline Analysis - (Mabama)

Distribution Hydraulic Calculation Diagram- Node Analysis - (Kakola)

Distribution Hydraulic Calculation Diagram- Pipeline Analysis - (Kakola)

Provisional Pump Plan for Level-2 Facility

Village Isanga
Ward Lusu
Region Tabora

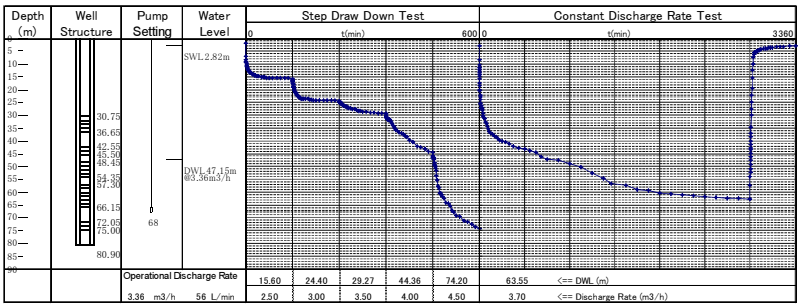
This Provisional Pump Plan shall be revised, according to the technical specifications of the pumps and piping materials which shall be selected by the Contractor, after the commencement of the implementation of the Project.

Borehole No.	672/2010	Contractor	DDCA
BH No.	NZ-047BH1	Supply Population	1956
BT No.	BTTR-008	Operating Hour (hr)	16
PP No.	PP-008	Daily Supply (m3/day)	53.79

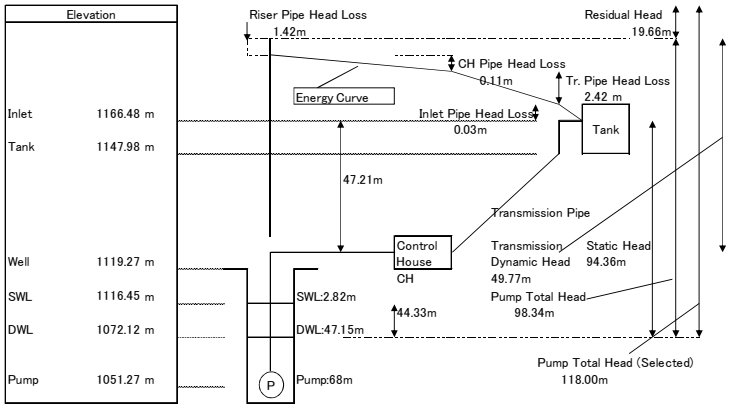
Pump Setting Depth Calculation

1) SWL (m)	
2.82 m	
2) Discharge Rate (m3/hr)	
3.36 m3/hr	56 L/min
3) Specific Capacity (m3/hr/m)	
0.061 m3/hr/m	
4) Draw Down (m)	
44.33 m	4)=2)÷3)
5) Annual Fractuation	
0 m	
6) DWL (m)	
47.15 m	6)=1)+4)+5)
7) Additional Depth (m)	
20.85 m	
8) Pump Setting Depth (m)	
68 m	8)=6)+7)

Pump Setting Plan



Pump Capacity Calculation

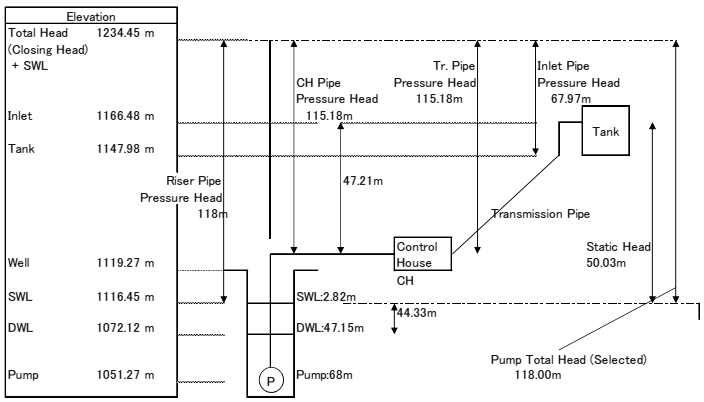


Head Loss Calculation

Riser Pipe	
Pipe Type	1-1/2"SUS
Pipe Dia.	0.0426 m
Velocity	0.655 m/sec
Pipe Length	68 m
Head Loss	1.42 m
Control House Pipe	
Pipe Type	2"STPG
Pipe Dia.	0.0527 m
Velocity	0.428 m/sec
Pipe Length	10.3 m
Head Loss	0.11 m
Transmission Pipe	
Pipe Type	90/16PVC
Pipe Dia.	0.0766 m
Velocity	0.203 m/sec
Pipe Length	2011.83 m
Head Loss	2.42 m
Inlet Pipe	
Pipe Type	3"GP-M
Pipe Dia.	0.08 m
Velocity	0.186 m/sec
Pipe Length	18.5 m
Head Loss	0.03 m
Total Head Loss	3.98 m
Trasmission Dynamic Head	69.43 m
Maximum Head at Control House by Water Hammer (Transmission Dynamic Head x 1.4)	97.2 m
Pump Total Head	98.34 m
Provisional Pump Selection	
Pump Model	
Total Head	118 m
Residual Head	19.66 m
Power	2.2 kw
Closing Head	160 m
Closing Head-D.W.L	112.85 m

Pressure Head Calculation

(Pump starts @DWL=SWL)



Pipe Pressure Calculation

Riser Pipe	
Pressure Head	118 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	16.2 bar
CH Pipe	
Pressure Head	115.18 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	15.8 bar
Tr. Pipe	
Pressure Head	115.18 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	15.8 bar
Inlet Pipe	
Pressure Head	67.97 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	9.3 bar

Class of Transmission Pipe: Class16

Provisional Pump Plan for Level-2 Facility

Village Mpumbuli
Ward Kizengi
Region Tabora

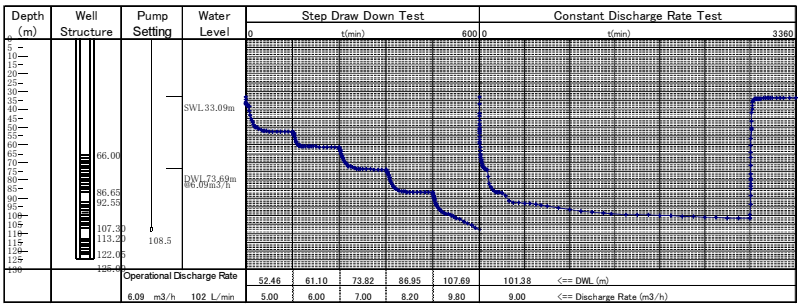
This Provisional Pump Plan shall be revised, according to the technical specifications of the pumps and piping materials which shall be selected by the Contractor, after the commencement of the implementation of the Project.

Borehole No.	662/2010	Contractor	DDCA
BH No.	TR-054BH2	Supply Population	2658
BT No.	BTTR-001	Operating Hour (hr)	12
PP No.	PP-001	Daily Supply (m3/day)	73.1

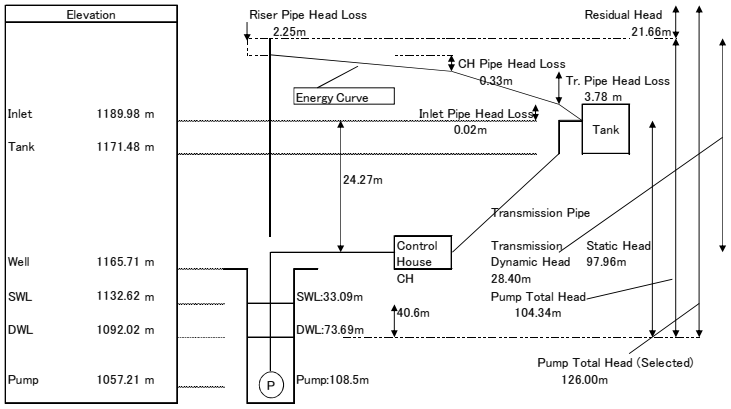
Pump Setting Depth Calculation

1) SWL (m)	
33.09 m	
2) Discharge Rate (m3/hr)	
6.09 m3/hr	102 L/min
3) Specific Capacity (m3/hr/m)	
0.15 m3/hr/m	
4) Draw Down (m)	
40.6 m	4)=2)÷3)
5) Annual Fractuation	
0 m	
6) DWL (m)	
73.69 m	6)=1)+4)+5)
7) Additional Depth (m)	
34.81 m	
8) Pump Setting Depth (m)	
108.5 m	8)=6)+7)

Pump Setting Plan



Pump Capacity Calculation

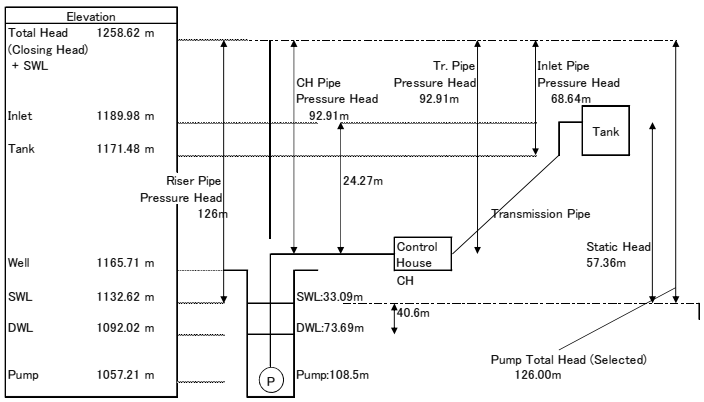


Head Loss Calculation

Riser Pipe	
Pipe Type	2″SUS
Pipe Dia.	0.0535 m
Velocity	0.753 m/sec
Pipe Length	108.5 m
Head Loss	2.25 m
Control House Pipe	
Pipe Type	2″STPG
Pipe Dia.	0.0527 m
Velocity	0.776 m/sec
Pipe Length	10.3 m
Head Loss	0.33 m
Transmission Pipe	
Pipe Type	110/16PVC
Pipe Dia.	0.0966 m
Velocity	0.231 m/sec
Pipe Length	3238.19 m
Head Loss	3.78 m
Inlet Pipe	
Pipe Type	4″GP-M
Pipe Dia.	0.1043 m
Velocity	0.198 m/sec
Pipe Length	18.5 m
Head Loss	0.02 m
Total Head Loss	6.38 m
Trasmission Dynamic Head	50.06 m
Maximum Head at Control House by Water Hammer (Transmission Dynamic Head x 1.4)	70.08 m
Pump Total Head	104.34 m
Provisional Pump Selection	
Pump Model	
Total Head	126 m
Residual Head	21.66 m
Power	3.7 kw
Closing Head	140 m
Closing Head-D.W.L	66.31 m

Pressure Head Calculation

(Pump starts @DWL=SWL)



Pipe Pressure Calculation

Riser Pipe	
Pressure Head	126 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	17.3 bar
CH Pipe	
Pressure Head	92.91 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	12.7 bar
Tr. Pipe	
Pressure Head	92.91 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	12.7 bar
Inlet Pipe	
Pressure Head	68.64 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	9.4 bar

Class of Transmission Pipe: Class16

Provisional Pump Plan for Level-2 Facility

Village Mabama
Ward Mabama
Region Tabora

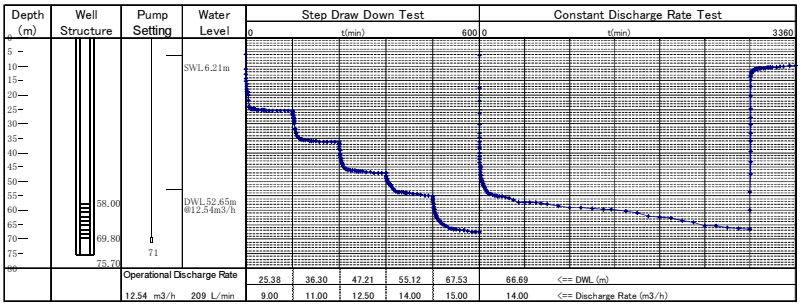
This Provisional Pump Plan shall be revised, according to the technical specifications of the pumps and piping materials which shall be selected by the Contractor, after the commencement of the implementation of the Project.

Borehole No.	664/2010	Contractor	DDCA
BH No.	TR-069BH1	Supply Population	5471
BT No.	BTTR-003	Operating Hour (hr)	12
PP No.	PP-003	Daily Supply (m3/day)	150.45

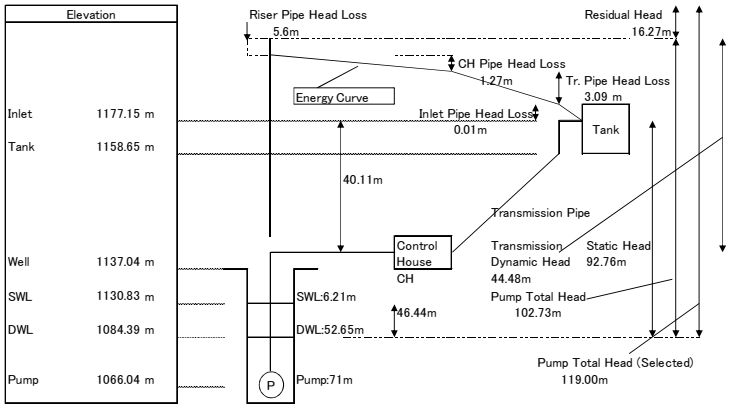
Pump Setting Depth Calculation

1) SWL (m)	
6.21 m	
2) Discharge Rate (m3/hr)	
12.54 m3/hr	209 L/min
3) Specific Capacity (m3/hr/m)	
0.27 m3/hr/m	
4) Draw Down (m)	
46.44 m	4)=2)÷3)
5) Annual Fractuation	
0 m	
6) DWL (m)	
52.65 m	6)=1)+4)+5)
7) Additional Depth (m)	
18.35 m	
8) Pump Setting Depth (m)	
71 m	8)=6)+7)

Pump Setting Plan



Pump Capacity Calculation

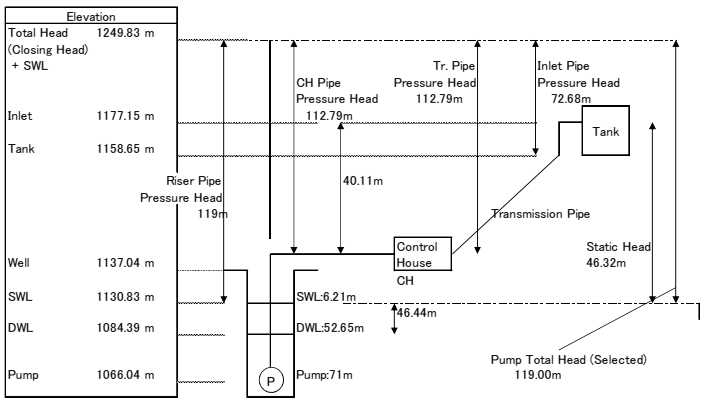


Head Loss Calculation

Riser Pipe	
Pipe Type	2"SUS
Pipe Dia.	0.0535 m
Velocity	1.55 m/sec
Pipe Length	71 m
Head Loss	5.6 m
Control House Pipe	
Pipe Type	2"STPG
Pipe Dia.	0.0527 m
Velocity	1.598 m/sec
Pipe Length	10.3 m
Head Loss	1.27 m
Transmission Pipe	
Pipe Type	160/16PVC
Pipe Dia.	0.141 m
Velocity	0.223 m/sec
Pipe Length	4384.04 m
Head Loss	3.09 m
Inlet Pipe	
Pipe Type	6"GP-M
Pipe Dia.	0.1544 m
Velocity	0.186 m/sec
Pipe Length	18.5 m
Head Loss	0.01 m
Total Head Loss	9.97 m
Trasmission Dynamic Head	60.75 m
Maximum Head at Control House by Water Hammer (Transmission Dynamic Head x 1.4)	85.05 m
Pump Total Head	102.73 m
Provisional Pump Selection	
Pump Model	
Total Head	119 m
Residual Head	16.27 m
Power	7.5 kw
Closing Head	140 m
Closing Head-D.W.L	87.35 m

Pressure Head Calculation

(Pump starts @DWL=SWL)



Pipe Pressure Calculation

Riser Pipe	
Pressure Head	119 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	16.3 bar
CH Pipe	
Pressure Head	112.79 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	15.5 bar
Tr. Pipe	
Pressure Head	112.79 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	15.5 bar
Inlet Pipe	
Pressure Head	72.68 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	10 bar

Class of Transmission Pipe: Class16

Provisional Pump Plan for Level-2 Facility

Village Kakola
Ward Kakola
Region Tabora

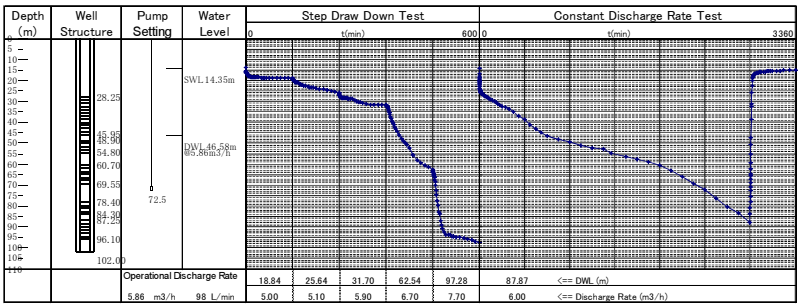
This Provisional Pump Plan shall be revised, according to the technical specifications of the pumps and piping materials which shall be selected by the Contractor, after the commencement of the implementation of the Project.

Borehole No.	663/2010	Contractor	DDCA
BH No.	TU-008BH1	Supply Population	2983
BT No.	BTTR-002	Operating Hour (hr)	14
PP No.	PP-002	Daily Supply (m3/day)	82.03

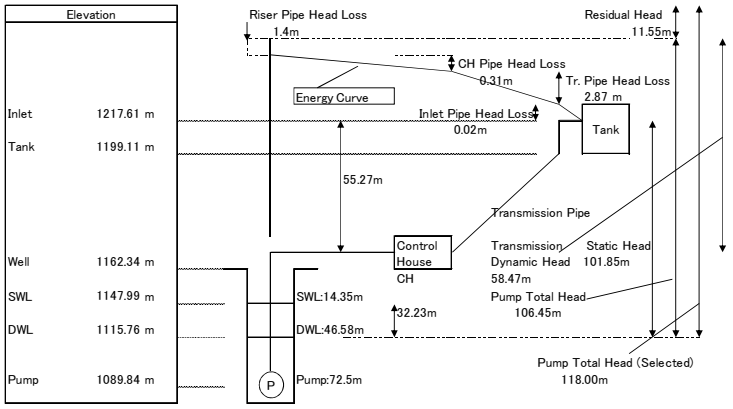
Pump Setting Depth Calculation

1) SWL (m)	
14.35 m	
2) Discharge Rate (m3/hr)	
5.86 m3/hr	97.7 L/min
3) Specific Capacity (m3/hr/m)	
0.186 m3/hr/m	
4) Draw Down (m)	
32.23 m	4)=2)÷3)
5) Annual Fractuation	
0 m	
6) DWL (m)	
46.58 m	6)=1)+4)+5)
7) Additional Depth (m)	
25.92 m	
8) Pump Setting Depth (m)	
72.5 m	8)=6)+7)

Pump Setting Plan



Pump Capacity Calculation



Head Loss Calculation

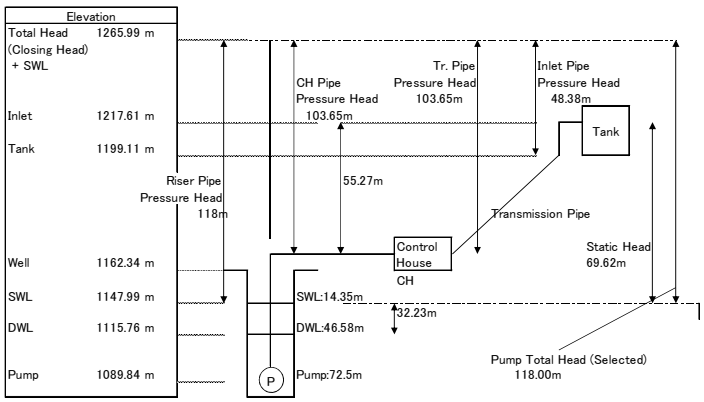
Riser Pipe	
Pipe Type	2"SUS
Pipe Dia.	0.0535 m
Velocity	0.724 m/sec
Pipe Length	72.5 m
Head Loss	1.4 m
Control House Pipe	
Pipe Type	2"STPG
Pipe Dia.	0.0527 m
Velocity	0.747 m/sec
Pipe Length	10.3 m
Head Loss	0.31 m
Transmission Pipe	
Pipe Type	110/16PVC
Pipe Dia.	0.0966 m
Velocity	0.222 m/sec
Pipe Length	2644.98 m
Head Loss	2.87 m
Inlet Pipe	
Pipe Type	4"GP-M
Pipe Dia.	0.1043 m
Velocity	0.191 m/sec
Pipe Length	18.5 m
Head Loss	0.02 m
Total Head Loss	4.6 m
Trasmission Dynamic Head	70.02 m
Maximum Head at Control House by Water Hammer (Transmission Dynamic Head x 1.4)	98.03 m
Pump Total Head	106.45 m

Provisional Pump Selection

Pump Model	
Total Head	118 m
Residual Head	11.55 m
Power	3.7 kw
Closing Head	140 m
Closing Head-D.W.L	93.42 m

Pressure Head Calculation

(Pump starts @DWL=SWL)



Pipe Pressure Calculation

Riser Pipe	
Pressure Head	118 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	16.2 bar
CH Pipe	
Pressure Head	103.65 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	14.2 bar
Tr. Pipe	
Pressure Head	103.65 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	14.2 bar
Inlet Pipe	
Pressure Head	48.38 m
Safety Factor (Water Hammer)	1.4
Pipe Pressure	6.6 bar

Class of Transmission Pipe: Class16

Hydraulic Calculation for Distribution Line

S-001 ISANGA

Pipe Line																	NodeFrom					Node To				
PL No.	NT No.	RT No.	Node From	Node To	Station From	Station To	Junction Valve	Pipe	Dia. (mm)	Dia Calc. (mm)	V (m/sec)	Loss (m)	A. Q (l/sec)	A. Q (m3/h)	Pipe Length	A. V (m/sec)	A. Loss (m)	Alt.	A. EH. (m)	A. WL. (m)	A. Q (l/sec)	A. Q (m3/h)	Alt.	A. EH. (m)	A. WL. (m)	A. Q (l/sec)	A. Q (m3/h)
1	S-001D	RT-001	1	2	T	J1	2	4"GP-M	104.3	79.702	0.292	0.031	2.493	8.976	18.67	0.292	0.0312	1147.98	15.5	1163.48	-2.49	-8.9768	1147.368	16.08	1163.448	0	0
2	S-001D	RT-001	2	3	J1	J2	2	90/10PVC	81.4	61.129	0.282	2.177	1.467	5.28	1030.27	0.282	2.1765	1147.368	16.08	1163.448	0	0	1136.115	25.16	1161.272	0	0
3	S-001D	RT-001	3	4	J2	J3	2	40/10HDPE	35.2	33.482	0.452	0.361	0.44	1.584	26.59	0.452	0.3605	1136.115	25.16	1161.272	0	0	1136.115	24.79	1160.906	0	0
4	S-001D	RT-001	4	5	J3	JPW2	1	40/10HDPE	35.2	27.338	0.302	0.107	0.293	1.056	16.68	0.301	0.1068	1136.115	24.79	1160.906	0	0	1136.151	24.65	1160.797	0	0
5	S-001D	RT-001	5	6	JPW2	PW2		32/10HDPE	27.4	19.331	0.249	0.028	0.147	0.528	4.47	0.249	0.0281	1136.151	24.65	1160.797	0	0	1136.151	24.62	1160.772	0.147	0.528
6	S-001D	RT-002	5	7	JPW2	PW1		40/10HDPE	35.2	19.331	0.151	1.72	0.147	0.528	968.34	0.151	1.7201	1136.151	24.65	1160.797	0	0	1137.213	21.86	1159.078	0.147	0.528
7	S-001D	RT-003	4	32	J3	PW12		32/10HDPE	27.4	19.331	0.249	1.927	0.147	0.528	306.55	0.249	1.9271	1136.115	24.79	1160.906	0	0	1132.622	26.35	1158.976	0.147	0.528
8	S-001D	RT-004	3	8	J2	J4	2	63/10PVC	57	51.144	0.403	1.04	1.027	3.696	171.96	0.402	1.0396	1136.115	25.16	1161.272	0	0	1135.543	24.69	1160.232	0	0
9	S-001D	RT-004	8	9	J4	PWD3		32/10HDPE	27.4	27.338	0.498	2.259	0.293	1.056	99.7	0.497	2.2594	1135.543	24.69	1160.232	0	0	1136.767	21.2	1157.966	0.293	1.056
10	S-001D	RT-005	8	10	J4	JPW11	1	63/10PVC	57	43.225	0.288	1.292	0.733	2.64	398.19	0.287	1.2919	1135.543	24.69	1160.232	0	0	1134.085	24.86	1158.941	0	0
11	S-001D	RT-005	10	11	JPW11	PW11		32/10HDPE	27.4	19.331	0.249	0.008	0.147	0.528	1.2	0.249	0.0075	1134.085	24.86	1158.941	0	0	1134.08	24.85	1158.935	0.147	0.528
12	S-001D	RT-006	10	12	JPW11	JPW15	1	63/10PVC	57	38.661	0.23	1.18	0.587	2.112	549.71	0.23	1.1802	1134.085	24.86	1158.941	0	0	1130.059	27.7	1157.76	0	0
13	S-001D	RT-006	12	13	JPW15	PW15		32/10HDPE	27.4	19.331	0.249	0.034	0.147	0.528	5.38	0.249	0.0338	1130.059	27.7	1157.76	0	0	1130.163	27.57	1157.729	0.147	0.528
14	S-001D	RT-007	12	14	JPW15	J5	2	40/10HDPE	35.2	33.482	0.452	2.023	0.44	1.584	149.19	0.452	2.0227	1130.059	27.7	1157.76	0	0	1129.315	26.43	1155.74	0	0
15	S-001D	RT-007	14	15	J5	PW16		40/10HDPE	35.2	19.331	0.151	0.76	0.147	0.528	428.09	0.151	0.7604	1129.315	26.43	1155.74	0	0	1128.302	26.68	1154.98	0.147	0.528
16	S-001D	RT-008	14	16	J5	J6	2	32/10HDPE	27.4	27.338	0.498	0.307	0.293	1.056	13.53	0.497	0.3066	1129.315	26.43	1155.74	0	0	1128.921	26.5	1155.423	0	0
17	S-001D	RT-008	16	17	J6	PW13		32/10HDPE	27.4	19.331	0.249	2.895	0.147	0.528	460.51	0.249	2.8949	1128.921	26.5	1155.423	0	0	1124.96	27.56	1152.525	0.147	0.528
18	S-001D	RT-009	16	18	J6	PW14		32/10HDPE	27.4	19.331	0.249	2.524	0.147	0.528	401.47	0.249	2.5238	1128.921	26.5	1155.423	0	0	1127.317	25.59	1152.902	0.147	0.528
19	S-001D	RT-010	2	19	J1	J7	2	63/10PVC	57	51.144	0.403	1.313	1.027	3.696	217.24	0.402	1.3134	1147.368	16.08	1163.448	0	0	1143.321	18.82	1162.136	0	0
20	S-001D	RT-010	19	20	J7	PW4		32/10HDPE	27.4	19.331	0.249	0.816	0.147	0.528	129.81	0.249	0.816	1143.321	18.82	1162.136	0	0	1143.636	17.68	1161.319	0.147	0.528
21	S-001D	RT-011	19	21	J7	JPW5	1	63/10PVC	57	47.35	0.345	1.984	0.88	3.168	436.47	0.345	1.9841	1143.321	18.82	1162.136	0	0	1137.831	22.32	1160.154	0	0
22	S-001D	RT-011	21	22	JPW5	PW5		32/10HDPE	27.4	19.331	0.249	0.116	0.147	0.528	18.44	0.249	0.1159	1137.831	22.32	1160.154	0	0	1137.947	22.09	1160.041	0.147	0.528
23	S-001D	RT-012	21	23	JPW5	J8	2	63/10PVC	57	43.225	0.288	0.7	0.733	2.64	215.68	0.287	0.6997	1137.831	22.32	1160.154	0	0	1134.239	25.21	1159.454	0	0
24	S-001D	RT-012	23	24	J8	PW6		32/10HDPE	27.4	19.331	0.249	1.97	0.147	0.528	313.37	0.249	1.9699	1134.239	25.21	1159.454	0	0	1131.311	26.17	1157.486	0.147	0.528
25	S-001D	RT-013	23	25	J8	J9	2	63/10PVC	57	38.661	0.23	0.595	0.587	2.112	277.11	0.23	0.595	1134.239	25.21	1159.454	0	0	1135.295	23.56	1158.859	0	0
26	S-001D	RT-013	25	26	J9	PW8		40/10HDPE	35.2	19.331	0.151	0.628	0.147	0.528	353.7	0.151	0.6283	1135.295	23.56	1158.859	0	0	1131.625	26.61	1158.23	0.147	0.528
27	S-001D	RT-014	25	27	J9	JPW7	1	40/10HDPE	35.2	33.482	0.452	0.889	0.44	1.584	65.56	0.452	0.8889	1135.295	23.56	1158.859	0	0	1135.458	22.51	1157.964	0	0
28	S-001D	RT-014	27	28	JPW7	PW7		32/10HDPE	27.4	19.331	0.249	0.09	0.147	0.528	14.37	0.249	0.0903	1135.458	22.51	1157.964	0	0	1135.558	22.32	1157.876	0.147	0.528
29	S-001D	RT-015	27	29	JPW7	JPW10	1	40/10HDPE	35.2	27.338	0.302	4.374	0.293	1.056	683.11	0.301	4.3744	1135.458	22.51	1157.964	0	0	1133.028	20.56	1153.59	0	0
30	S-001D	RT-015	29	30	JPW10	PW10		32/10HDPE	27.4	19.331	0.249	0.037	0.147	0.528	5.81	0.249	0.0365	1133.028	20.56	1153.59	0	0	1133.109	20.44	1153.553	0.147	0.528
31	S-001D	RT-016	29	31	JPW10	PW9		40/10HDPE	35.2	19.331	0.151	0.652	0.147	0.528	367.16	0.151	0.6522	1133.028	20.56	1153.59	0	0	1128.324	24.61	1152.938	0.147	0.528

Hydraulic Calculation for Distribution Line

S-002 MPUMBULI

Pipe Line																	NodeFrom					Node To				
PL No.	NT No.	RT No.	Node From	Node To	Station From	Station To	Junction Valve	Pipe	Dia. (mm)	Dia Calc. (mm)	V (m/sec)	Loss (m)	A. Q (l/sec)	A. Q (m3/h)	Pipe Length	A. V (m/sec)	A. Loss (m)	Alt.	A. EH. (m)	A. WL. (m)	A. Q (l/sec)	A. Q (m3/h)	Alt.	A. EH. (m)	A. WL. (m)	A. Q (l/sec)	A. Q (m3/h)
1	S-002D	RT-001	1	2	T	J1	2	4"GP-M	104.3	92.846	0.396	0.055	3.383	12.181	18.67	0.396	0.0548	1171.48	15.5	1186.98	-3.38	-12.179	1171.48	15.44	1186.924	0	0
2	S-002D	RT-001	2	3	J1	J2	1	90/10PVC	81.4	81.433	0.5	0.117	2.603	9.3702	19.12	0.5	0.1167	1171.48	15.44	1186.924	0	0	1171.543	15.27	1186.808	0	0
3	S-002D	RT-001	3	4	J2	PWD5		50/10HDPE	44	36.418	0.343	0.061	0.521	1.874	9.98	0.342	0.0606	1171.543	15.27	1186.808	0	0	1171.543	15.2	1186.748	0.521	1.874
4	S-002D	RT-002	3	5	J2	J3	2	90/10PVC	81.4	72.836	0.4	0.935	2.082	7.4961	231.39	0.4	0.9348	1171.543	15.27	1186.808	0	0	1169.531	16.34	1185.875	0	0
5	S-002D	RT-002	5	6	J3	PW4		32/10HDPE	27.4	25.751	0.442	0.552	0.26	0.937	30.36	0.441	0.5515	1169.531	16.34	1185.875	0	0	1169.611	15.72	1185.33	0.26	0.937
6	S-002D	RT-003	5	7	J3	JPW9	1	90/10PVC	81.4	68.132	0.35	0.385	1.822	6.5591	122.08	0.35	0.3853	1169.531	16.34	1185.875	0	0	1167.32	18.17	1185.49	0	0
7	S-002D	RT-003	7	8	JPW9	PWD9		50/10HDPE	44	36.418	0.343	0.007	0.521	1.874	1.19	0.342	0.0072	1167.32	18.17	1185.49	0	0	1167.32	18.16	1185.484	0.521	1.874
8	S-002D	RT-004	7	9	JPW9	J4	2	90/10PVC	81.4	57.582	0.25	0.002	1.301	4.6851	1.16	0.25	0.002	1167.32	18.17	1185.49	0	0	1167.32	18.17	1185.488	0	0
9	S-002D	RT-004	9	10	J4	J5	1	63/10PVC	57	44.603	0.306	0.497	0.781	2.811	136.31	0.306	0.4967	1167.32	18.17	1185.488	0	0	1167.296	17.7	1184.993	0	0
10	S-002D	RT-004	10	11	J5	PWD2		50/10HDPE	44	36.418	0.343	0.074	0.521	1.874	12.23	0.342	0.0743	1167.296	17.7	1184.993	0	0	1167.312	17.61	1184.92	0.521	1.874
11	S-002D	RT-005	10	12	J5	PW1		40/10HDPE	35.2	25.751	0.268	1.199	0.26	0.937	233.67	0.267	1.1995	1167.296	17.7	1184.993	0	0	1163.902	19.89	1183.792	0.26	0.937
12	S-002D	RT-006	9	13	J4	PWD3		50/10HDPE	44	36.418	0.343	0.862	0.521	1.874	142	0.342	0.8621	1167.32	18.17	1185.488	0	0	1166.318	18.31	1184.626	0.521	1.874
13	S-002D	RT-007	2	14	J1	J6	2	90/10PVC	81.4	44.603	0.15	0.02	0.781	2.8111	29.94	0.15	0.0197	1171.48	15.44	1186.924	0	0	1171.573	15.33	1186.904	0	0
14	S-002D	RT-007	14	15	J6	PW6		40/10HDPE	35.2	25.751	0.268	2.539	0.26	0.937	494.7	0.267	2.5394	1171.573	15.33	1186.904	0	0	1171.775	12.59	1184.364	0.26	0.937
15	S-002D	RT-008	14	16	J6	JPW8	1	90/10PVC	81.4	36.418	0.1	0.598	0.521	1.874	1922.03	0.1	0.5975	1171.573	15.33	1186.904	0	0	1173.999	12.31	1186.307	0	0
16	S-002D	RT-008	16	17	JPW8	PW8		32/10HDPE	27.4	25.752	0.442	0.061	0.26	0.937	3.37	0.441	0.0612	1173.999	12.31	1186.307	0	0	1173.853	12.4	1186.252	0.26	0.937
17	S-002D	RT-009	16	18	JPW8	PW7		63/10PVC	57	25.751	0.102	0.544	0.26	0.937	1139.47	0.102	0.544	1173.999	12.31	1186.307	0	0	1173.248	12.52	1185.763	0.26	0.937

Hydraulic Calculation for Distribution Line

S-003 MABAMA

Pipe Line																		NodeFrom					Node To				
PL No.	NT No.	RT No.	Node From	Node To	Station From	Station To	Junction Valve	Pipe	Dia. (mm)	Dia Calc. (mm)	V (m/sec)	Loss (m)	A. Q (l/sec)	A. Q (m3/h)	Pipe Length	A. V (m/sec)	A. Loss (m)	Alt.	A. EH. (m)	A. WL. (m)	A. Q (l/sec)	A. Q (m3/h)	Alt.	A. EH. (m)	A. WL. (m)	A. Q (l/sec)	A. Q (m3/h)
1	S-003D	RT-001	1	2	T	J1	2	6"GP-M	154.4	133.23	0.372	0.031	6.967	25.08	18.67	0.372	0.0308	1158.65	15.5	1174.15	-6.97	-25.079	1158.65	15.47	1174.119	0	0
2	S-003D	RT-001	2	3	J1	JPW1	1	160/10PVC	147.6	130.16	0.389	0.464	6.65	23.94	252.25	0.389	0.4638	1158.65	15.47	1174.119	0	0	1158.807	14.85	1173.655	0	0
3	S-003D	RT-001	3	4	JPW1	PW1		40/10HDPE	35.2	28.404	0.326	0.004	0.317	1.14	0.6	0.325	0.0044	1158.807	14.85	1173.655	0	0	1158.807	14.84	1173.648	0.317	1.14
4	S-003D	RT-002	3	5	JPW1	JPW2	1	160/10PVC	147.6	127.03	0.37	1.05	6.333	22.8	624.89	0.37	1.0497	1158.807	14.85	1173.655	0	0	1155.624	16.98	1172.605	0	0
5	S-003D	RT-002	5	6	JPW2	PW2		40/10HDPE	35.2	28.404	0.326	0.004	0.317	1.14	0.6	0.325	0.0044	1155.624	16.98	1172.605	0	0	1155.624	16.97	1172.598	0.317	1.14
6	S-003D	RT-003	5	7	JPW2	JPW3	1	160/10PVC	147.6	123.81	0.352	2.532	6.017	21.66	1657.33	0.352	2.532	1155.624	16.98	1172.605	0	0	1146.198	23.88	1170.074	0	0
7	S-003D	RT-003	7	8	JPW3	PW3		40/10HDPE	35.2	28.404	0.326	0.004	0.317	1.14	0.6	0.325	0.0044	1146.198	23.88	1170.074	0	0	1146.534	23.53	1170.066	0.317	1.14
8	S-003D	RT-004	7	9	JPW3	J2	2	160/10PVC	147.6	120.51	0.333	0.176	5.7	20.52	126.96	0.333	0.1755	1146.198	23.88	1170.074	0	0	1147.245	22.65	1169.898	0	0
9	S-003D	RT-004	9	10	J2	PW4		40/10HDPE	35.2	28.404	0.326	0.296	0.317	1.14	40.06	0.325	0.2956	1147.245	22.65	1169.898	0	0	1147.797	21.81	1169.603	0.317	1.14
10	S-003D	RT-005	9	11	J2	J3	2	160/10PVC	147.6	117.11	0.315	0.025	5.383	19.38	19.78	0.315	0.0246	1147.245	22.65	1169.898	0	0	1147.264	22.61	1169.873	0	0
11	S-003D	RT-005	11	12	J3	J4	2	110/10PVC	101.6	94.206	0.43	0.558	3.483	12.54	163.86	0.43	0.5581	1147.264	22.61	1169.873	0	0	1148.712	20.6	1169.315	0	0
12	S-003D	RT-005	12	13	J4	JPW12	1	90/10PVC	81.4	69.576	0.365	0.22	1.9	6.84	64.5	0.365	0.22	1148.712	20.6	1169.315	0	0	1148.502	20.59	1169.097	0	0
13	S-003D	RT-005	13	14	JPW12	PW12		40/10HDPE	35.2	28.404	0.326	0.004	0.317	1.14	0.6	0.325	0.0044	1148.502	20.59	1169.097	0	0	1148.502	20.59	1169.089	0.317	1.14
14	S-003D	RT-006	13	15	JPW12	J5	2	90/10PVC	81.4	63.514	0.304	0.107	1.583	5.7	44.03	0.304	0.1072	1148.502	20.59	1169.097	0	0	1148.489	20.5	1168.989	0	0
15	S-003D	RT-006	15	16	J5	J6	2	50/10HDPE	44	40.169	0.417	1.32	0.633	2.28	151.29	0.417	1.3202	1148.489	20.5	1168.989	0	0	1147.922	19.75	1167.672	0	0
16	S-003D	RT-006	16	17	J6	PW13		40/10HDPE	35.2	28.404	0.326	0.524	0.317	1.14	71.08	0.325	0.5244	1147.922	19.75	1167.672	0	0	1147.007	20.14	1167.148	0.317	1.14
17	S-003D	RT-007	16	18	J6	PW14		40/10HDPE	35.2	28.404	0.326	0.791	0.317	1.14	107.22	0.325	0.7911	1147.922	19.75	1167.672	0	0	1148.498	18.38	1166.882	0.317	1.14
18	S-003D	RT-008	19	21	J7	JPW20	1	63/10PVC	57	40.169	0.248	6.311	0.633	2.28	2551.14	0.248	6.3106	1150.244	17.81	1168.052	0	0	1155.152	6.59	1161.742	0	0
19	S-003D	RT-008	21	22	JPW20	PW20		40/10HDPE	35.2	28.404	0.326	0.004	0.317	1.14	0.6	0.325	0.0044	1155.152	6.59	1161.742	0	0	1155.152	6.583	1161.735	0.317	1.14
20	S-003D	RT-009	21	23	JPW20	PW21		50/10HDPE	44	28.404	0.208	2.162	0.317	1.14	893.13	0.208	2.1619	1155.152	6.59	1161.742	0	0	1151.311	8.269	1159.58	0.317	1.14
21	S-003D	RT-010	15	19	J5	J7	2	63/10PVC	57	49.197	0.372	0.94	0.95	3.42	179.46	0.372	0.9399	1148.489	20.5	1168.989	0	0	1150.244	17.81	1168.052	0	0
22	S-003D	RT-010	19	20	J7	PW15		40/10HDPE	35.2	28.404	0.326	0.355	0.317	1.14	48.15	0.325	0.3552	1150.244	17.81	1168.052	0	0	1150.244	17.45	1167.698	0.317	1.14
23	S-003D	RT-011	12	24	J4	JPW9	1	90/10PVC	81.4	63.514	0.304	0.531	1.583	5.7	218.11	0.304	0.5309	1148.712	20.6	1169.315	0	0	1149.412	19.37	1168.784	0	0
24	S-003D	RT-011	24	25	JPW9	PW9		40/10HDPE	35.2	28.404	0.326	0.004	0.317	1.14	0.6	0.325	0.0044	1149.412	19.37	1168.784	0	0	1149.412	19.36	1168.777	0.317	1.14
25	S-003D	RT-012	24	26	JPW9	J8	2	63/10PVC	57	56.808	0.497	0.035	1.267	4.56	3.98	0.496	0.0355	1149.412	19.37	1168.784	0	0	1148.967	19.78	1168.749	0	0
26	S-003D	RT-012	26	27	J8	J9	2	63/10PVC	57	49.197	0.372	0.19	0.95	3.42	36.19	0.372	0.1895	1148.967	19.78	1168.749	0	0	1150.17	18.39	1168.56	0	0
27	S-003D	RT-012	27	28	J9	PWD10		50/10HDPE	44	40.169	0.417	0.662	0.633	2.28	75.81	0.417	0.6615	1150.17	18.39	1168.56	0	0	1150.403	17.49	1167.897	0.633	2.28
28	S-003D	RT-013	27	29	J9	PW11		40/10HDPE	35.2	28.404	0.326	1.652	0.317	1.14	223.92	0.325	1.652	1150.17	18.39	1168.56	0	0	1149.282	17.63	1166.907	0.317	1.14
29	S-003D	RT-014	26	30	J8	PW8		40/10HDPE	35.2	28.404	0.326	2.12	0.317	1.14	287.39	0.325	2.1203	1148.967	19.78	1168.749	0	0	1146.916	19.72	1166.631	0.317	1.14
30	S-003D	RT-015	11	31	J3	JPW5	1	90/10PVC	81.4	69.576	0.365	0.943	1.9	6.84	276.52	0.365	0.943	1147.264	22.61	1169.873	0	0	1147.388	21.54	1168.929	0	0
31	S-003D	RT-015	31	32	JPW5	PW5		40/10HDPE	35.2	28.404	0.326	0.004	0.317	1.14	0.6	0.325	0.0044	1147.388	21.54	1168.929	0	0	1147.388	21.53	1168.921	0.317	1.14
32	S-003D	RT-016	31	33	JPW5	JPW6	1	90/10PVC	81.4	63.514	0.304	0.628	1.583	5.7	258.11	0.304	0.6282	1147.388	21.54	1168.929	0	0	1145.399	22.9	1168.301	0	0
33	S-003D	RT-016	33	34	JPW6	PW6		40/10HDPE	35.2	28.404	0.326	0.004	0.317	1.14	0.6	0.325	0.0044	1145.399	22.9	1168.301	0	0	1145.399	22.89	1168.293	0.317	1.14
34	S-003D	RT-017	33	35	JPW6	JPW7	1	63/10PVC	57	56.808	0.497	1.814	1.267	4.56	203.37	0.496	1.8135	1145.399	22.9	1168.301	0	0	1144.156	22.33	1166.491	0	0
35	S-003D	RT-017	35	36	JPW7	PW7		40/10HDPE	35.2	28.404	0.326	0.004	0.317	1.14	0.6	0.325	0.0044	1144.156	22.33	1166.491	0	0	1144.156	22.33	1166.483	0.317	1.14
36	S-003D	RT-018	35	37	JPW7	JPW16	1	63/10PVC	57	49.197	0.372	1.344	0.95	3.42	256.64	0.372	1.3441	1144.156	22.33	1166.491	0	0	1145.733	19.41	1165.145	0	0
37	S-003D	RT-018	37	38	JPW16	PW16		40/10HDPE	35.2	28.404	0.326	0.004	0.317	1.14	0.6	0.325	0.0044	1145.733	19.41	1165.145	0	0	1145.733	19.4	1165.137	0.317	1.14
38	S-003D	RT-019	37	39	JPW16	PWD17		50/10HDPE	44	40.169	0.417	3.181	0.633	2.28	364.56	0.417	3.1813	1145.733	19.41	1165.145	0	0	1143.325	18.63	1161.96	0.633	2.28
39	S-003D	RT-020	2	40	J1	PW18		40/10HDPE	35.2	28.404	0.326	3.594	0.317	1.14	487.14	0.325	3.594	1158.65	15.47	1174.119	0	0	1160.327	10.2	1170.526	0.317	1.14

Hydraulic Calculation for Distribution Line

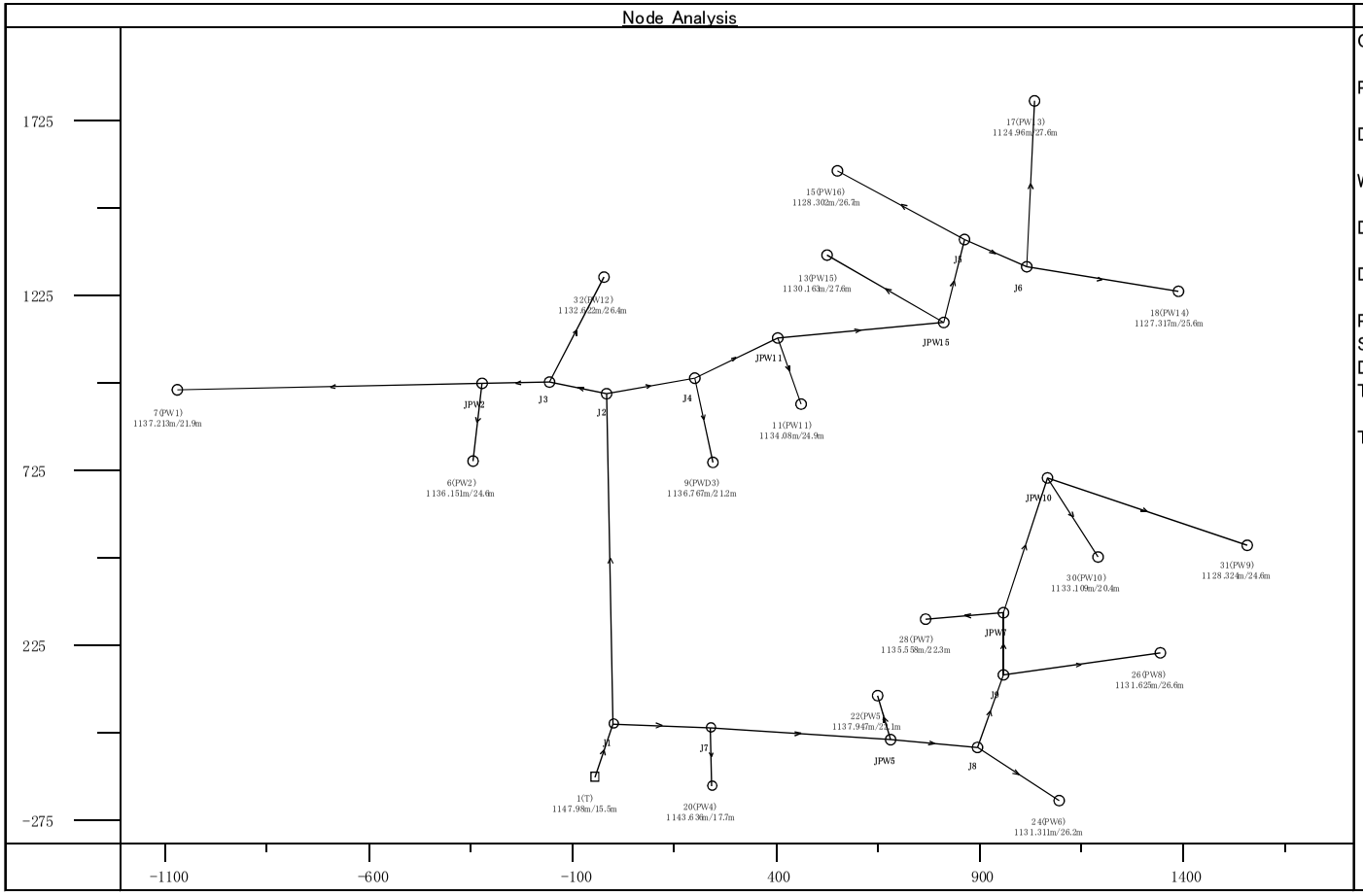
S-004 KAKOLA

Pipe Line																	NodeFrom					Node To				
PL No.	NT No.	RT No.	Node From	Node To	Station From	Station To	Junction Valve	Pipe	Dia. (mm)	Dia Calc. (mm)	V (m/sec)	Loss (m)	A. Q (l/sec)	A. Q (m3/h)	Pipe Length	A. V (m/sec)	A. Loss (m)	Alt.	A. EH. (m)	A. WL. (m)	A. Q (l/sec)	A. Q (m3/h)	Alt.	A. EH. (m)	A. WL. (m)	A. Q (l/sec)	A. Q (m3/h)
1	S-004D	RT-001	1	2	T	J1	2	6"GP-M	154.4	98.332	0.203	0.01	3.795	13.663	18.67	0.203	0.01	1199.11	15.5	1214.61	-3.79	-13.661	1194.121	20.48	1214.6	0	0
2	S-004D	RT-001	2	3	J1	J2	2	110/10PVC	101.6	91.985	0.41	1.006	3.321	11.956	322.52	0.41	1.0057	1194.121	20.48	1214.6	0	0	1189.457	24.14	1213.593	0	0
3	S-004D	RT-001	3	4	J2	JPW4	1	90/10PVC	81.4	65.043	0.319	0.81	1.661	5.9778	304.9	0.319	0.8104	1189.457	24.14	1213.593	0	0	1189.457	23.32	1212.782	0	0
4	S-004D	RT-001	4	5	JPW4	PW4		32/10HDPE	27.4	24.584	0.403	0.009	0.237	0.854	0.6	0.402	0.0092	1189.457	23.32	1212.782	0	0	1188.546	24.22	1212.767	0.237	0.854
5	S-004D	RT-002	4	6	JPW4	J3	2	90/10PVC	81.4	60.218	0.274	0.041	1.423	5.1239	20.556	0.274	0.0411	1189.457	23.32	1212.782	0	0	1188.942	23.8	1212.74	0	0
6	S-004D	RT-002	6	11	J3	JPW2	1	40/10HDPE	35.2	34.767	0.488	3.364	0.474	1.7079	215.85	0.488	3.3642	1188.942	23.8	1212.74	0	0	1190.199	19.17	1209.373	0	0
7	S-004D	RT-002	11	12	JPW2	PW2		32/10HDPE	27.4	24.584	0.403	0.009	0.237	0.854	0.6	0.402	0.0092	1190.199	19.17	1209.373	0	0	1190.199	19.16	1209.358	0.237	0.854
8	S-004D	RT-003	11	13	JPW2	PW1		40/10HDPE	35.2	24.584	0.244	3.378	0.237	0.854	781.36	0.244	3.3781	1190.199	19.17	1209.373	0	0	1195.964	10.03	1205.997	0.237	0.854
9	S-004D	RT-004	6	7	J3	J4	2	63/10PVC	57	49.168	0.372	1.68	0.949	3.4159	321.51	0.372	1.6801	1188.942	23.8	1212.74	0	0	1182.07	28.99	1211.057	0	0
10	S-004D	RT-004	7	8	J4	JPW3	1	50/10HDPE	44	42.581	0.468	1.6	0.712	2.5619	147.75	0.468	1.5996	1182.07	28.99	1211.057	0	0	1182.385	27.07	1209.455	0	0
11	S-004D	RT-004	8	9	JPW3	PW3		32/10HDPE	27.4	24.584	0.403	0.009	0.237	0.854	0.6	0.402	0.0092	1182.385	27.07	1209.455	0	0	1182.385	27.05	1209.44	0.237	0.854
12	S-004D	RT-005	7	14	J4	PW9		40/10HDPE	35.2	24.584	0.244	0.627	0.237	0.854	144.95	0.244	0.6267	1182.07	28.99	1211.057	0	0	1182.385	28.05	1210.43	0.237	0.854
13	S-004D	RT-006	3	15	J2	JPW14	1	90/10PVC	81.4	65.043	0.319	0.621	1.661	5.9778	233.81	0.319	0.6215	1189.457	24.14	1213.593	0	0	1186.603	26.37	1212.971	0	0
14	S-004D	RT-006	15	16	JPW14	PW14		32/10HDPE	27.4	24.584	0.403	0.009	0.237	0.854	0.6	0.402	0.0092	1186.603	26.37	1212.971	0	0	1186.603	26.35	1212.955	0.237	0.854
15	S-004D	RT-007	15	17	JPW14	J5	2	90/10PVC	81.4	60.218	0.274	0.261	1.423	5.1239	130.67	0.273	0.2611	1186.603	26.37	1212.971	0	0	1187.32	25.39	1212.709	0	0
16	S-004D	RT-007	17	18	J5	PWD15		40/10HDPE	35.2	34.767	0.488	3.058	0.474	1.7079	196.21	0.488	3.0581	1187.32	25.39	1212.709	0	0	1192.89	16.76	1209.654	0.474	1.708
17	S-004D	RT-008	17	19	J5	PW13		40/10HDPE	35.2	24.584	0.244	0.728	0.237	0.854	168.45	0.244	0.7283	1187.32	25.39	1212.709	0	0	1186.981	25	1211.983	0.237	0.854
18	S-004D	RT-009	17	20	J5	J6	2	50/10HDPE	44	42.581	0.468	1.242	0.712	2.5619	114.68	0.468	1.2416	1187.32	25.39	1212.709	0	0	1184.227	27.24	1211.464	0	0
19	S-004D	RT-009	20	21	J6	PW10		40/10HDPE	35.2	24.584	0.244	0.584	0.237	0.854	135.04	0.244	0.5838	1184.227	27.24	1211.464	0	0	1182.876	28	1210.88	0.237	0.854
20	S-004D	RT-010	20	22	J6	JPW11	1	40/10HDPE	35.2	34.767	0.488	1.642	0.474	1.7079	105.32	0.488	1.6415	1184.227	27.24	1211.464	0	0	1182.847	26.98	1209.827	0	0
21	S-004D	RT-010	22	23	JPW11	PW11		32/10HDPE	27.4	24.584	0.403	0.009	0.237	0.854	0.6	0.402	0.0092	1182.847	26.98	1209.827	0	0	1182.847	26.96	1209.812	0.237	0.854
22	S-004D	RT-011	22	24	JPW11	PW12		40/10HDPE	35.2	24.584	0.244	5.13	0.237	0.854	1186.62	0.244	5.1302	1182.847	26.98	1209.827	0	0	1187.645	17.05	1204.695	0.237	0.854
23	S-004D	RT-012	2	25	J1	JPW5	1	90/10PVC	81.4	34.767	0.091	0.201	0.474	1.708	769.17	0.091	0.2014	1194.121	20.48	1214.6	0	0	1199.918	14.48	1214.398	0	0
24	S-004D	RT-013	25	26	JPW5	PW5		32/10HDPE	27.4	24.584	0.403	0.009	0.237	0.854	0.6	0.402	0.0092	1199.918	14.48	1214.398	0	0	1199.918	14.47	1214.383	0.237	0.854
25	S-004D	RT-014	25	27	JPW5	PW6		63/10PVC	57	24.584	0.093	0.215	0.237	0.854	533.96	0.093	0.2147	1199.918	14.48	1214.398	0	0	1207.54	6.644	1214.184	0.237	0.854
26	S-004D	RT-015	8	28	JPW3	JPW7	1	50/10HDPE	44	34.767	0.312	11.03	0.474	1.7079	2156.32	0.312	11.026	1182.385	27.07	1209.455	0	0	1160.35	38.08	1198.43	0	0
27	S-004D	RT-015	28	29	JPW7	PW7		32/10HDPE	27.4	24.584	0.403	0.009	0.237	0.854	0.6	0.402	0.0092	1160.35	38.08	1198.43	0	0	1160.35	38.06	1198.415	0.237	0.854
28	S-004D	RT-016	28	10	JPW7	PW8		50/10HDPE	44	24.584	0.156	1.184	0.237	0.854	834.91	0.156	1.1843	1160.35	38.08	1198.43	0	0	1169.29	27.96	1197.246	0.237	0.854

Hydraulic Calculation Sheet

System: S-001 Isanga

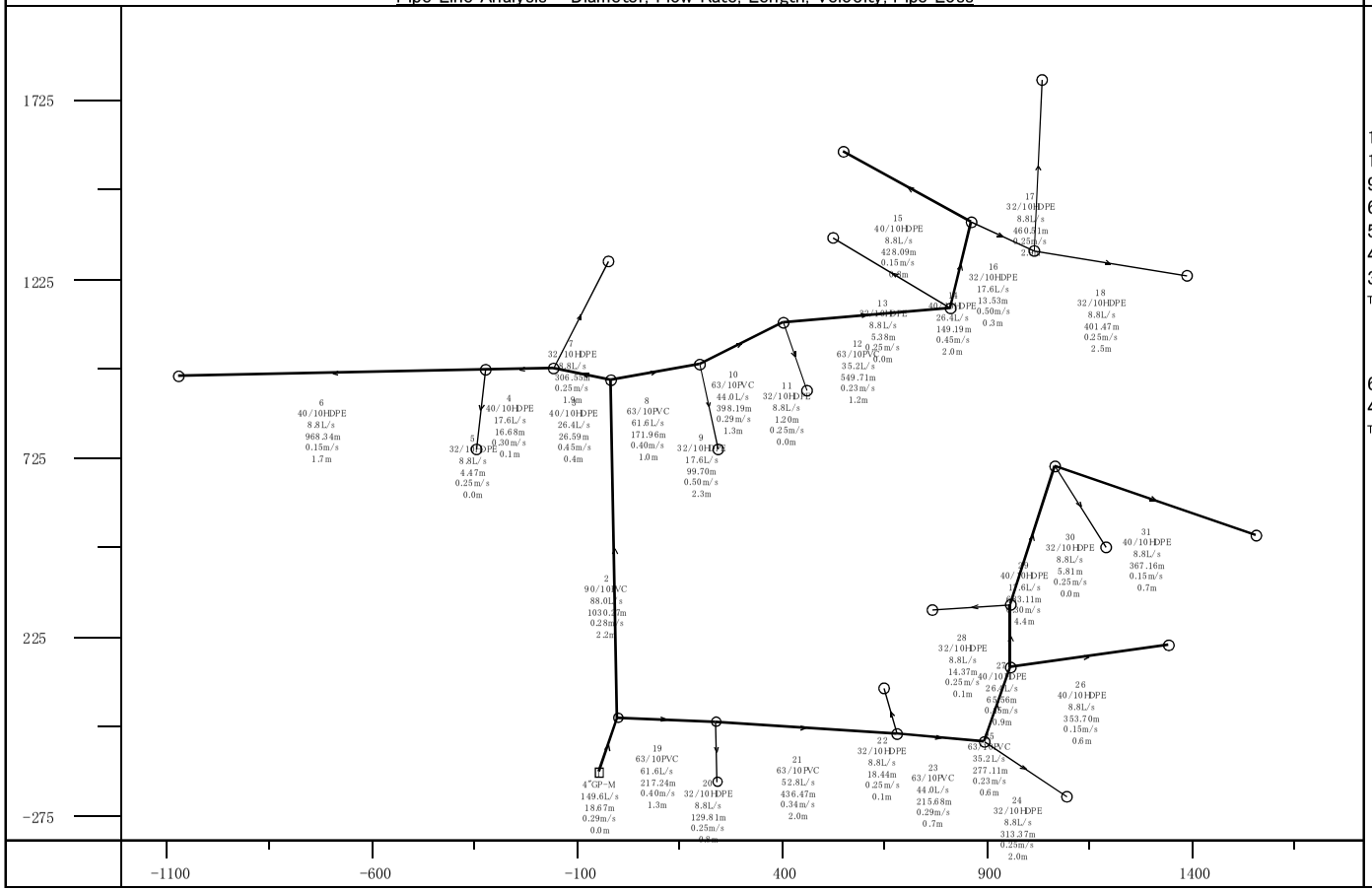
Node Analysis



Water Demand	
Capita/Day	
	25 L
Population to be served (2020)	
	1956
Daily Maximum Demand	
	48.900 m3/day
Water Demand	
	53.79 m3/day
Distribution Hour	
	6 hr
Distribution Flow	
	8.970 m3/h
Public Water Point	
Single	15 nos
Double	1 nos
Total	16 nos
Tap Flow	
	0.528 m3/h
	8.800 L/min
	0.147 L/s

System: S-001 Isanga

Pipe Line Analysis - Diameter, Flow Rate, Length, Velocity, Pipe Loss



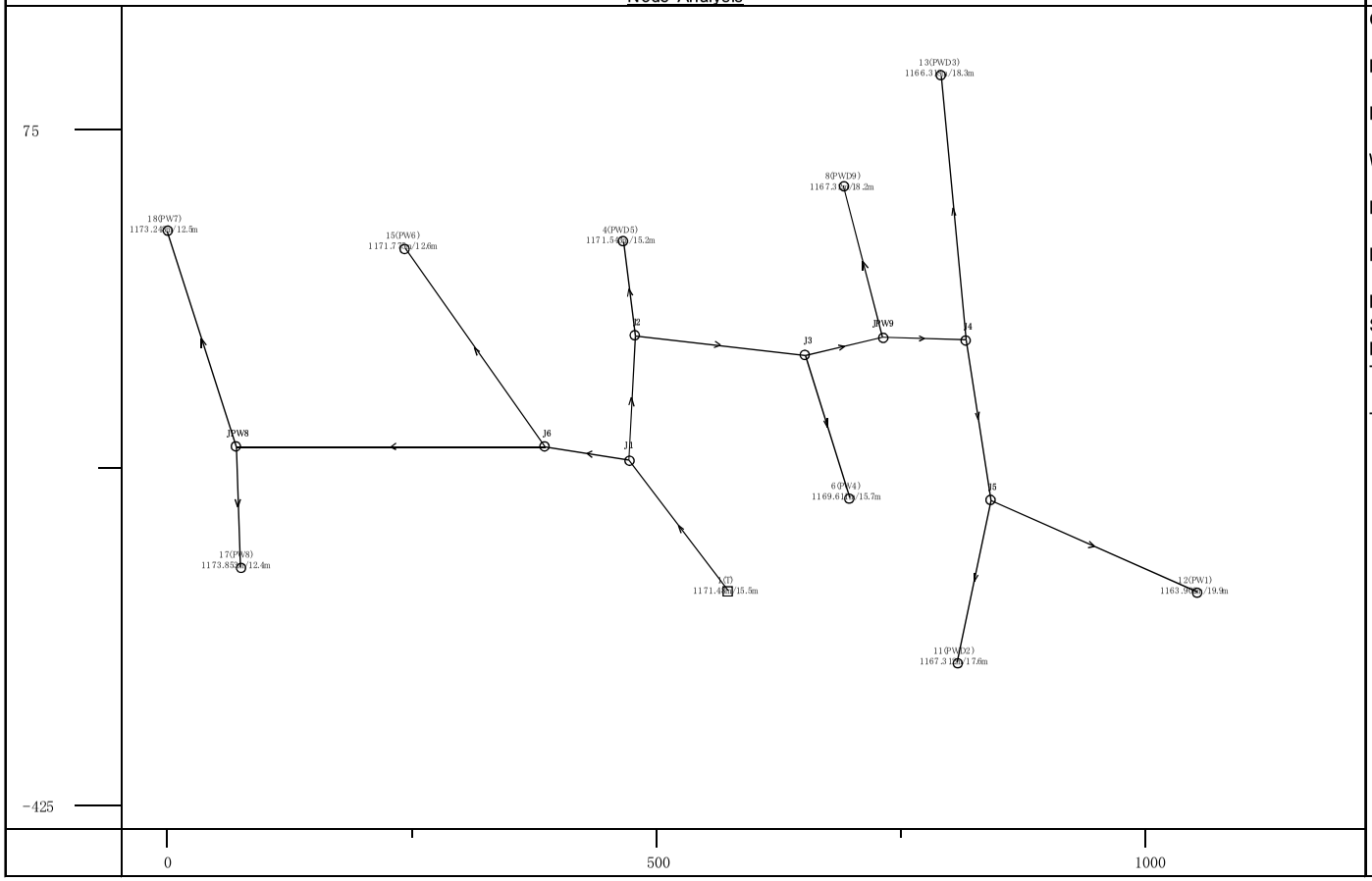
Pipe Length

Pipe	ID (mm)	Length (m)
160/10PVC	147.6	0.00
110/10PVC	101.6	0.00
90/10PVC	81.4	1030.27
63/10PVC	57	2266.36
50/10HDPE	44	0.00
40/10HDPE	35.2	3058.42
32/10HDPE	27.4	1774.61
Total (Distribution)		8129.66
6"GP-M	154.4	0.00
4"GP-M	104.3	18.67
Total (Tank Outlet		18.67

Hydraulic Calculation Sheet

System: S-002 Mpumbuli

Node Analysis

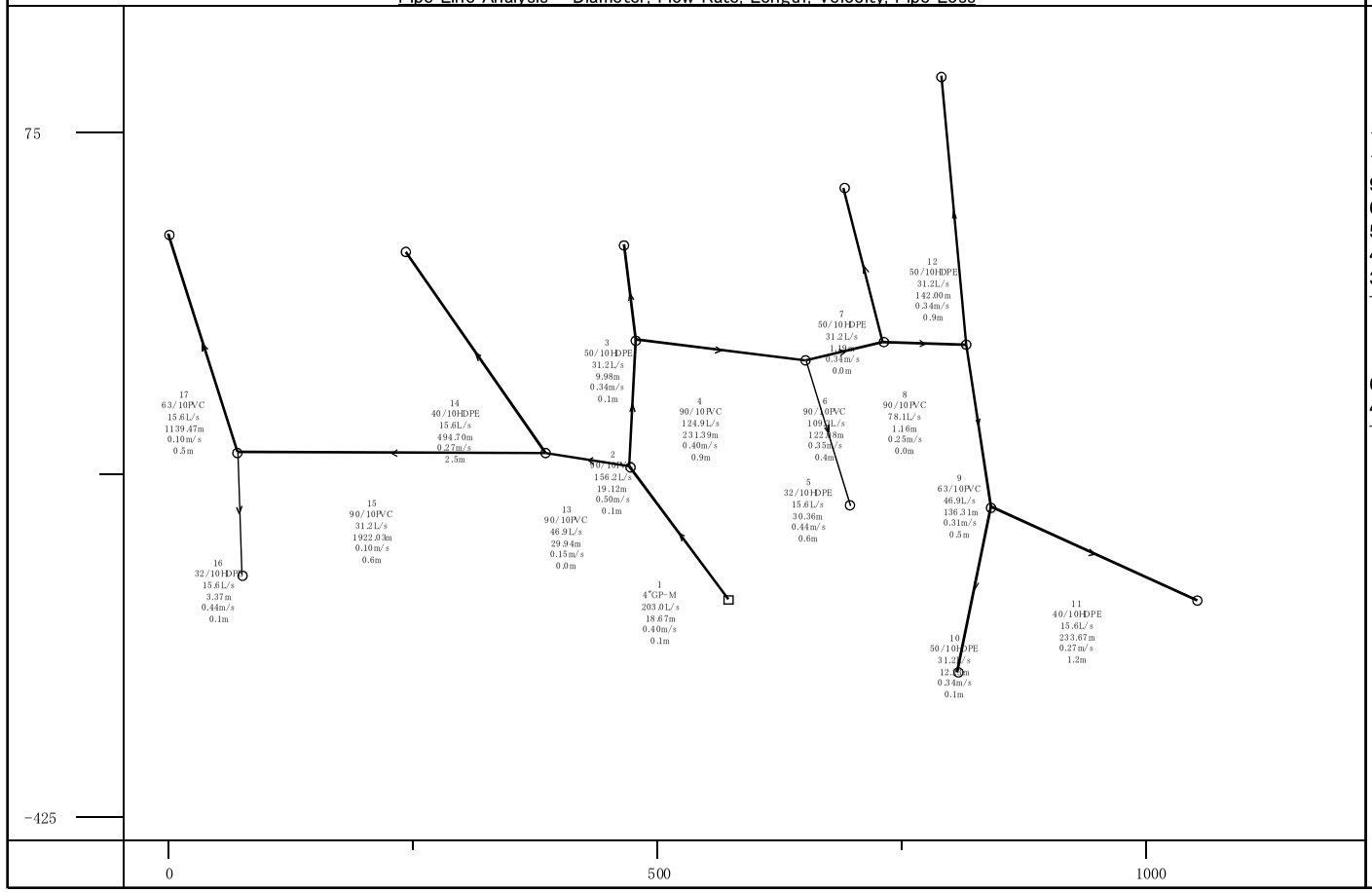


Water Demand	
Capita/Day	
	25 L
Population to be served (2020)	
	2658
Daily Maximum Demand	
	66.450 m3/day
Water Demand	
	73.1 m3/day
Distribution Hour	
	6 hr
Distribution Flow	
	12.180 m3/h
Public Water Point	
Single	5 nos
Double	4 nos
Total	9 nos
Tap Flow	
	0.937 m3/h
	15.617 L/min
	0.260 L/s

Hydraulic Calculation Sheet

System: S-002 Mpumbuli

Pipe Line Analysis – Diameter, Flow Rate, Length, Velocity, Pipe Loss



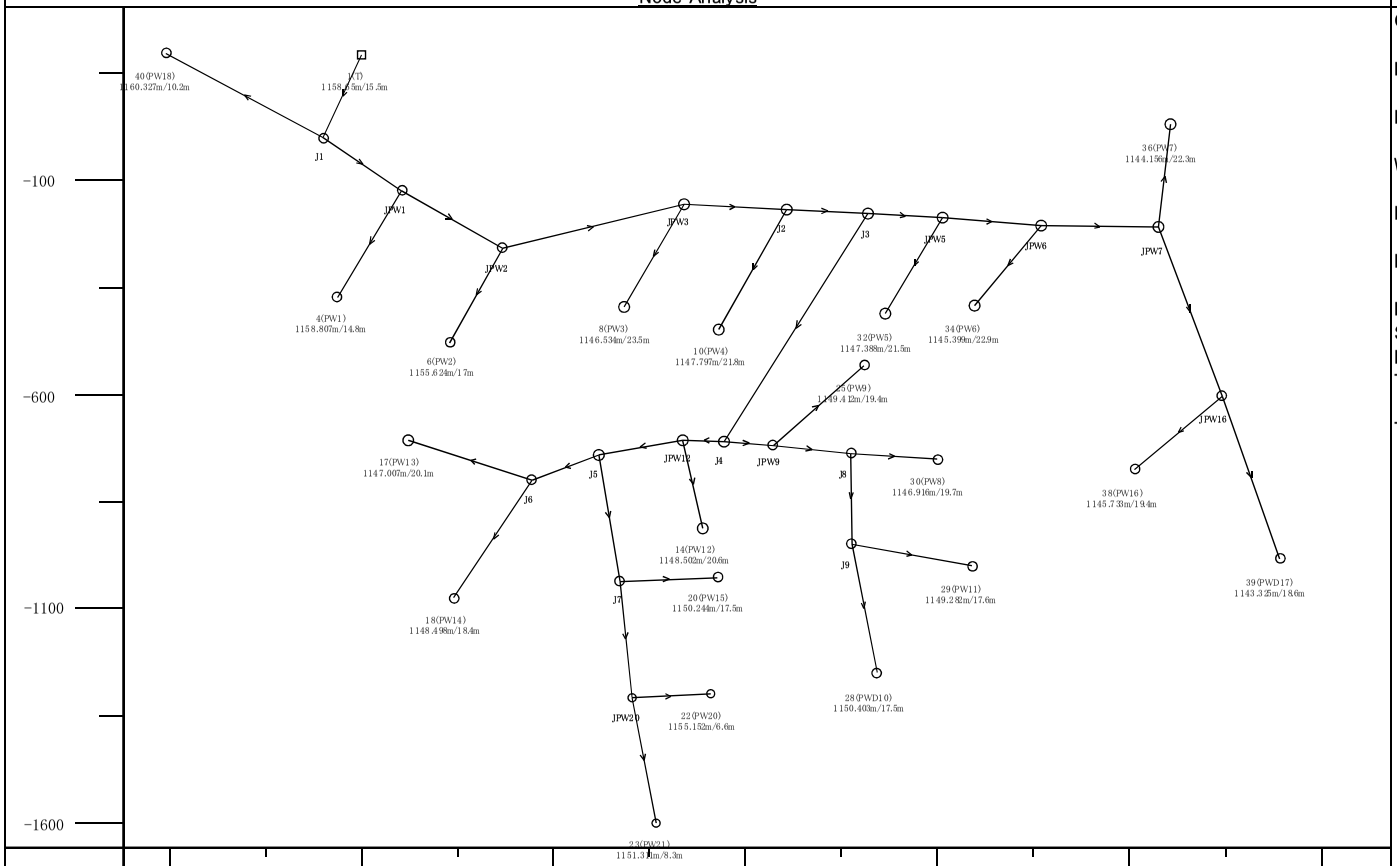
Pipe Length

Pipe	ID (mm)	Length (m)
160/10PVC	147.6	0.00
110/10PVC	101.6	0.00
90/10PVC	81.4	2325.72
63/10PVC	57	1275.78
50/10HDPE	44	165.40
40/10HDPE	35.2	728.37
32/10HDPE	27.4	33.73
Total (Distribution)		4529.00
6"GP-M	154.4	0.00
4"GP-M	104.3	18.67
Total (Tank Outlet		18.67

Hydraulic Calculation Sheet

System: S-003 Mabama

Node Analysis

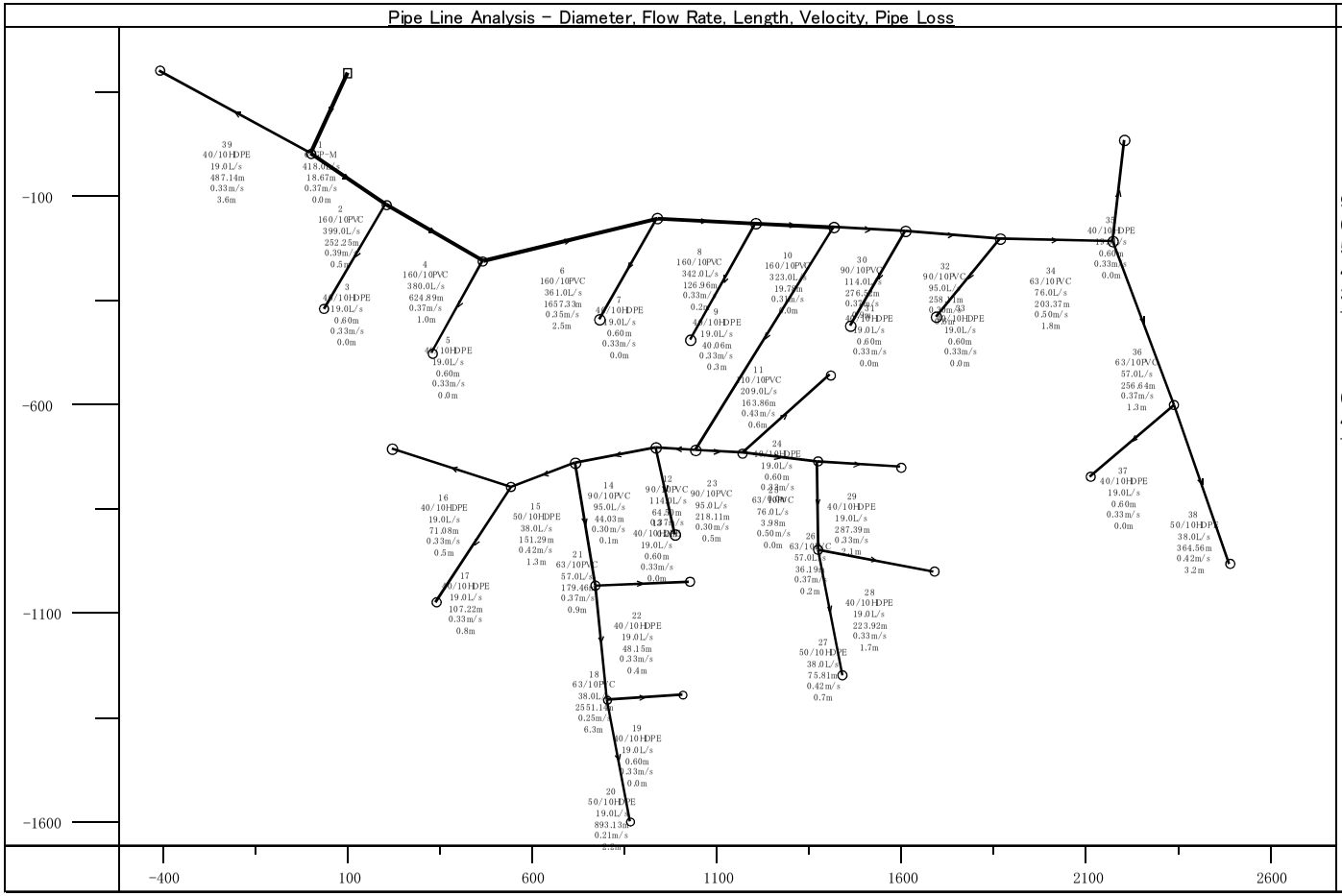


Water Demand	
Capita/Day	
	25 L
Population to be served (2020)	
	5471
Daily Maximum Demand	
	136.780 m3/day
Water Demand	
	150.46 m3/day
Distribution Hour	
	6 hr
Distribution Flow	
	25.080 m3/h
Public Water Point	
Single	18 nos
Double	2 nos
Total	20 nos
Tap Flow	
	1.14 m3/h
	19.000 L/min
	0.317 L/s

Hydraulic Calculation Sheet

System: S-003 Mabama

Pipe Line Analysis - Diameter, Flow Rate, Length, Velocity, Pipe Loss



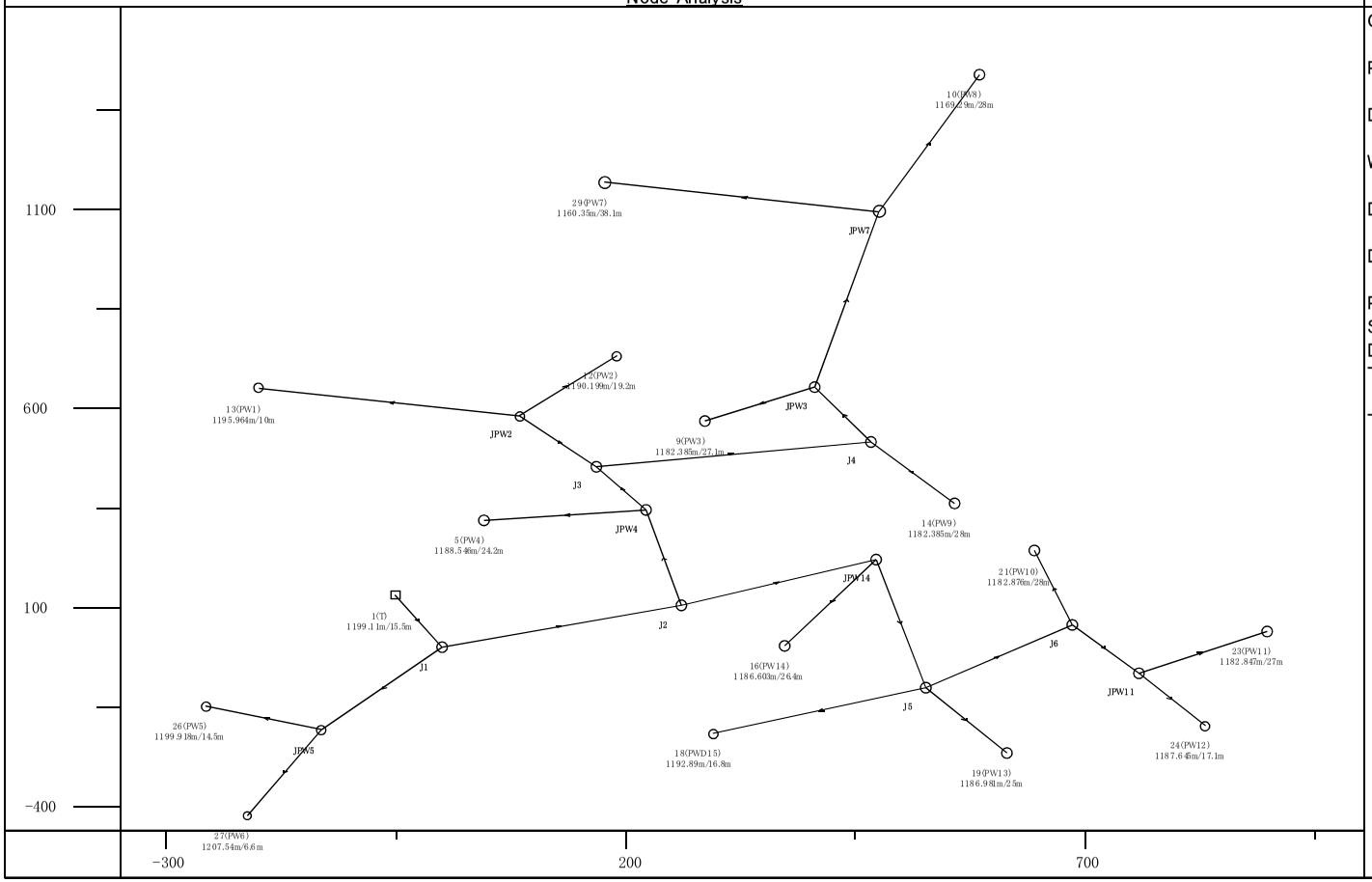
Pipe Length

Pipe	ID (mm)	Length (m)
160/10PVC	147.6	2681.21
110/10PVC	101.6	163.86
90/10PVC	81.4	861.27
63/10PVC	57	3230.78
50/10HDPE	44	1484.79
40/10HDPE	35.2	1270.96
32/10HDPE	27.4	0.00
Total (Distribution)		9692.87
6″GP-M	154.4	18.67
4″GP-M	104.3	0.00
Total (Tank Outlet		18.67

Hydraulic Calculation Sheet

System: S-004 Kakola

Node Analysis



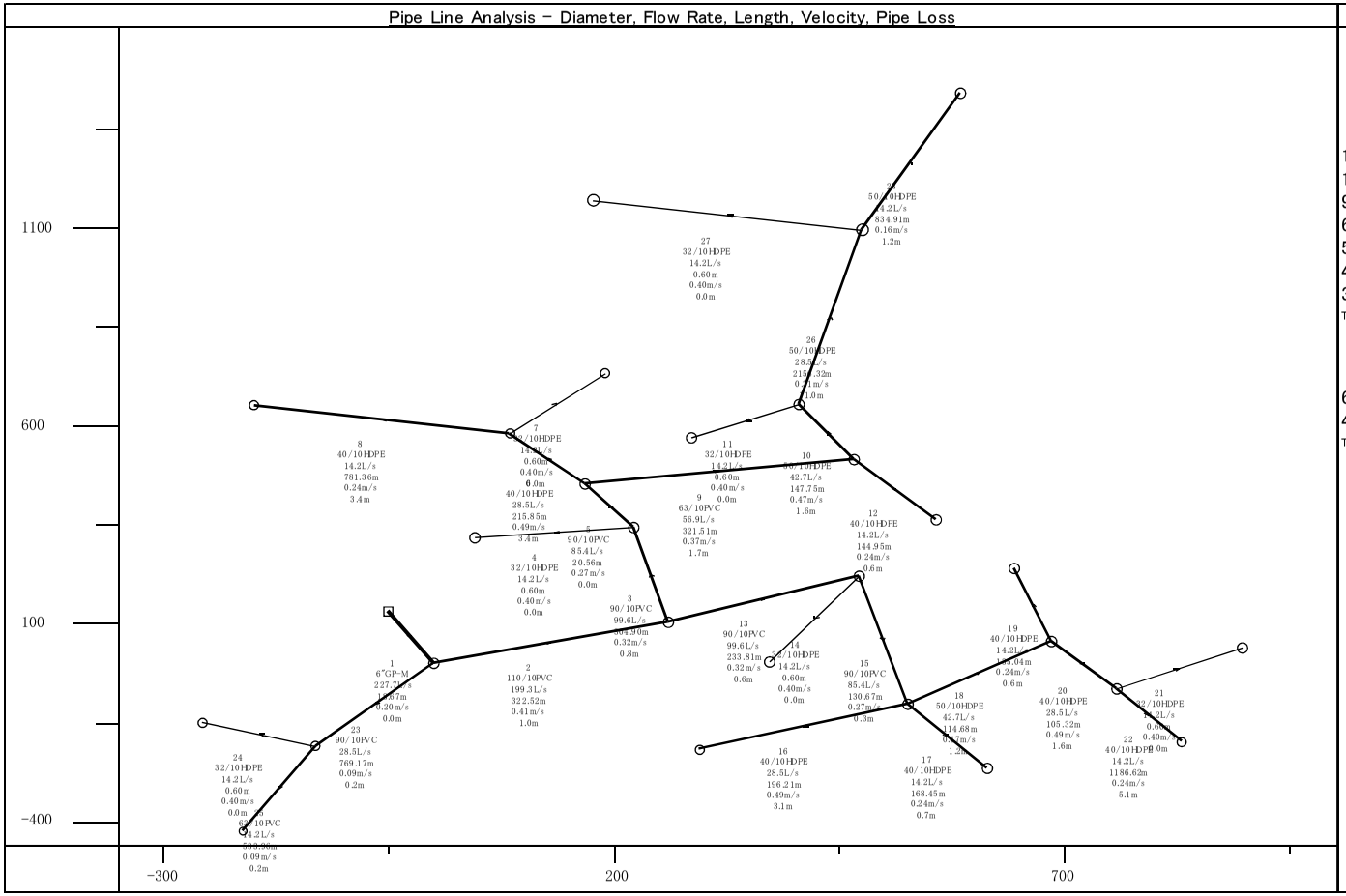
Water Demand

Capita/Day	
	25 L
Population to be served (2020)	
	2983
Daily Maximum Demand	
	74.580 m3/day
Water Demand	
	82.04 m3/day
Distribution Hour	
	6 hr
Distribution Flow	
	13.670 m3/h
Public Water Point	
Single	14 nos
Double	1 nos
Total	15 nos
Tap Flow	
	0.854 m3/h
	14.233 L/min
	0.237 L/s

Hydraulic Calculation Sheet

System: S-004 Kakola

Pipe Line Analysis – Diameter, Flow Rate, Length, Velocity, Pipe Loss



Pipe Length

Pipe	ID (mm)	Length (m)
160/10PVC	147.6	0.00
110/10PVC	101.6	322.52
90/10PVC	81.4	1459.11
63/10PVC	57	855.47
50/10HDPE	44	3253.66
40/10HDPE	35.2	2933.80
32/10HDPE	27.4	4.20
Total (Distribution)		8828.76
6″GP-M	154.4	18.67
4″GP-M	104.3	0.00
Total (Tank Outlet		18.67

Data Book G

Environmental and Social Consideration Data

Environmental and Social Consideration Data

No.1: IEE Implemented by District Officers in Tabora Districts Environmental Impact Review for Installation of Village Water Supply Facility

No.2: Screening Form for Water Projects under WSDP

No.3: An Example of Environmental and Social Management Checklist and Monitoring Plan for Category C

No.4: Projects Requiring EIA - Mandatory List

No.5: Projects (Small-Scale Activities and Enterprises) That May or May Not Require EIA.

IEE Implemented by District Officers in Tabora Districts
Environmental Impact Review for Installation of Village Water Supply Facility

District Name	Answerer's Name	Answerer's Position	Hearing Date	Venue
Igunga	Mr. Gaston Robert Ntulo	District Water Engineer	February 24, 2010	Igunga District Office
Nzega	Mr. Epaphra, Kessy	Environmental Management Officer	February 25, 2010	Nzega District Water Engineers Office
Tabora Rural	Mr. Faustine K. Maisango	Acting District Water Engineer	February 19, 2010	District Forest Officer's Office
	Mr. Paul Renatus	District Catchment Forestry Officer, Forest Department		
Tabora Urban	Mr. Wilson N. Subuya	Municipal Natural Resources Officer	February 19, 2010	Tabora Municipality Office
Urambo	Mr. Shadrack Wilson Yomba	District Environmental Officer/Fisheries officer	February 16, 2010	Urambo District Natural Resources Department Office
Sikonge	Eng. Paschal Ngunda	District Water Engineer	February 20, 2010	Sikonge District Water Engineer's Office
	Mr. Joafar Wibonella	Principal Technician		
	Mr. Madashi	Environment Officer		

Impact Assessment by Districts

	S/N	Impacts on:	Igunga	Nzega	Tabora Rural	Tabora Urban	Urambo	Sikonge
Social Environment	1.	Involuntary Resettlement	No	Nothing reported	No resettlement is expected by this project. If resettlement is necessary, it will be done under Tabora Regional Secretariat, in-line with the government guideline. Their houses, trees, and crops are evaluated in to Tsh. District headquarters, in Isikizya, resettled residents according to this procedure.	No resettlement expected	No resettlement case has been exercised in Urambo District regarding installation of water supply facilities.	32 households are resettling for a new Ulyanya dam. They are from Kisanga and Lufwisi Villages. This is the project they requested. No resettlement expected for boreholes.
	2.	Local economy such as employment and livelihood	Yes, there will be impact on venders; however, they can easily go to other areas in Igunga District to sell water.	Positive impact.	nil	There is no water venders in the village	No economic impacts have been observed to Urambo Community as a result of placement of water facilities.	Ulyanya Dam will contribute local economy as irrigation water supply.
	3.	Land use and utilization of local resources	Nil/No	No impact. Water vender is not selling only for drinking purpose but for other use.	nil	No impacts by water facility installation before. The boreholes are being made only in last two (2) years in Tabora Municipal.	No remarkable impact on land use and other utilization of local resources	No

	S/N	Impacts on:	Igunga	Nzega	Tabora Rural	Tabora Urban	Urambo	Sikonge
	4.	Local communities and decision-making institutions	No	Positive impact by revenue of water. No conflict reported	nil	No tribal conflict; No expectation of conflict	Not yet recognized any impact on community organization and decision making institutions. To date the District has not yet experienced any conflict between tribes/villages and decision makers. Absolutely no any conflict over new water resources is experienced to occur within the new village.	No
	5.	Existing infrastructures and services	No	Not expected	No impact	No impact	Impacts are not yet observed.	No
	6.	The poor/ indigenous/ ethnic minority/ women/ children	There can be positive impact. Women/children can do something else other than fetching.	Positive impact	nil	-	No conflicts have been noted over the tribes/villages against the poor/indigenous/ women/children over for new resources.	No
	7.	Misdistribution of benefit and social cost	No	Positive impact	nil	-	No conflicts observed between tribes/villages and parties on the distribution of benefit and social cost in Urambo District. No new conflict over new water resources.	No

	S/N	Impacts on:	Igunga	Nzega	Tabora Rural	Tabora Urban	Urambo	Sikonge
	8.	Historical/ cultural heritage	No	Positive impact. Past chief buildings, which are located in Nzega township authority (Ushirika Area). There are no others.	Historical/Cultural site in Tabora Rural District are as follows. -Ntemi Area (King's residence) in Bukumbi Ward -Freedom Fighters' Tower in Kigwa Village (Igalula Ward) -Slave trade truck in Igalula ward to Kizengi Word	There are two (2) Forest Reserves in Tabora Municipal. 1) Igombe Forest reserve 2) Usumuwa Forest Reserve	1) Milambo historic site in center of Ulyankulu Village. This site was used by King Milambo during colonial rule. 2) Igwisi Hills, off Igwisi Village, is sacred area and it is a cultural heritage.	No
	9.	Local conflict of interests	No	Nothing reported	No impact	-	Nothing	No
	10.	Water usage, Water rights, Communal rights	No	There is no conflict	No dispute	No experience of any disputes	No	No
	11.	Sanitation	-	Positive impact	No impact	-	No	No
	12.	Health Hazards/Risk, Infectious Diseases such as HIV/AIDS	No, and if any, it will be very minimum.	-	No impact	Health problems like Typhoid in local areas. People are encouraged boil the water before drinking (existing condition).	Not yet observed	Insignificant impacts (teeth decay) by fluoride hazards in Kiule Division (Boundary of Singida Region).
Natural Environment	13.	Important/ valuable geographical and geological features/ resources	No	Yes, there are such of them: Kilimi Dam, Uchama Dams, Karith Forest reserve, Igombe River Forest reserve, and Ilomero Hills Forest reserve.	No dispute	We have, but there is no impact by installation of water supply facilities.	No	No impact with regard to RWSSP. However, there are areas in which limestone is present in Sikonge word.
	14.	Soil erosion	-	-	No impact	-	No	Insignificant

	S/N	Impacts on:	Igunga	Nzega	Tabora Rural	Tabora Urban	Urambo	Sikonge
	15.	Amount and quality of groundwater	No	Unknown	Boreholes provide sufficient quality of water, but water from dam is very low. Water is not contaminated by fluoride in Tabora Rural District. Never experienced water levels went down by over extracting water.	No experience	Not yet observed anywhere in Urambo District	No
	16.	Amount of natural reservoir/ flow	No	No apparent impact in Nzega.	No impact. No conflict reported over surface water.	There are no many wells which affect surface flow. The conflict is between livestock keepers only (no conflicts by installation of the water supply facilities).	No effect on surface flow or lakes/reservoirs caused by wells in Urambo. No evidence of conflict over usage of surface water in Urambo District.	No significant
	17.	Coastal zone	-	-	No impact	-	NA	-
	18.	Flora, Fauna, Biodiversity	No	I expect positive impact for decreasing encroachment of people who fetch water in forest reserve area.	Construction of water supply facilities is restricted from forest reserve and game reserve. Building of facilities in these areas interferes with the natural environment of flora and fauna. Buffer zone around the reserve is 500m.	No installation allowed in the Forest Reserve. Installing any facility near the forest reserve may attract people to enter in the Forest Reserve area.	No apparent impacts on the protected areas if water supply facilities of small scale are built in a village outside of the area. Large scale projects are restricted in protected areas before entering full EIA.	-
	19.	Meteorology/ climate	-	-	No impact	-	No	-

	S/N	Impacts on:	Igunga	Nzega	Tabora Rural	Tabora Urban	Urambo	Sikonge
	20.	Aesthetic landscape	-	No apparent impact	There are some changes in landscape, but it can't affect the project.	-	No	-
	21.	Global warming	-	-	No impact	-	No	-
Pollution	22.	Air pollution	No	-	No	-	No	-
	23.	Water pollution	No	No apparent impact	No	-	No	-
	24.	Soil contamination	No	Droplets of oil from heavy machineries may contaminate soil during construction, butt it is negligible impact.	Not reported	-	No	-
	25.	Solid waste amount increase	No	Positive impact. It reduces wastes by washing it by newly supplied water.	No	-	No	-
	26.	Increase of noise and vibration	No	No complaints on generator noise in Nzega District.	Not reported	No complain.	No complains because generators are placed distant from people's settlement.	No such generators, hence no noise and therefore no complaints to this moment.
	27.	Ground level subsidence	No	No apparent impact	No impact	-	No	-
	28.	Offensive odor	No	No impact	No	-	Not yet noted anywhere	-
	29.	Sedimentation	No	Minor impact during construction but insignificant	No	-	No	-
	30	Increase of Accidents	No	No apparent impact	No	-	Not observed in Urambo District	-

No.2

SCREENING FORM FOR WATER PROJECTS UNDER WSDP

PART A: GENERAL INFORMATION

Project Name	**Estimated Cost (TSh)**
Project Site	**Funding Agency**
Project Objectives	**Proposed Main Project Activities:**
Name of Evaluator	**Date of Field Appraisal**

PART B: BRIEF DESCRIPTION OF THE PROPOSED ACTIVITIES

a) Provide information on the **scale of the construction/rehabilitation** activity (e.g. area, land required and approximate size of structures).

b) Provide information on **the construction activities** including support/ancillary structures and activities required to build them, e.g. Substructure, Superstructure Installations, external supply of materials borrow pit, dump sites quarry sites, water source and supply lines, access roads, power lines installations etc.

c) Describe **how the construction/rehabilitation activities** will be carried out. Include description of support/activities and resources required for the construction/rehabilitation.

PART C: ENVIRONMENTAL BASELINE INFORMATION OF THE PROJECT SITE

CATEGORY OF BASELINE INFORMATION	BRIEF DESCRIPTION
GEOGRAPHICAL LOCATION • Name of the Area (District, Village) • Proposed location of the project (Include a site map of at least 1:10,000 scale)	
LAND RESOURCES • Topography and Geology of the area • Soils of the area • Main land uses and economic activities	
WATER RESOURCES • Surface water resources (e.g. rivers, lakes, etc) quantity and quality • Ground water resources quantity and quality	
BIOLOGICAL RESOURCES • Flora (include threatened/endangered/endemic species) • Fauna (include threatened/endangered/endemic species) • Sensitive habitats including protected areas e.g. national parks and forest reserves	
CLIMATE • Temperature • Rainfall	

PART D: SCREENING CRITERIA FOR IMPACTS DURING CONSTRUCTION

	AREAS OF IMPACT			IMPACT EVALUATION						POTENTIAL MITIGATION MEASURES
	Is the project site/activity within and/ or will it affect the following environmentally sensitive areas?			Extent or coverage (on site, within 3km -5km or beyond 5km)			Significance (Low, Medium, High)			
		No	Yes	On Site	Within 3-5 km	Beyond 5km	Low	Medium	High	
1.0	**SCREENING CRITERIA FOR IMPACTS DURING PROJECT PLANNING AND DESIGN**									
1.1	National parks and game reserve									
1.2	Wet-lands									
1.3	Productive traditional agricultural /grazing lands									
1.5	Areas with rare or endangered flora or fauna									
1.6	Areas with outstanding scenery/tourist site									
1.7	Within steep slopes/mountains									
1.8	Dry tropical forests									
1.9	Along lakes , along beaches, riverine									
1.10	Near industrial activities									
1.11	Near human settlements									
1.12	Near cultural heritage sites									
1.13	Within prime ground water recharge area									
1.14	Within prime surface run off									

	AREAS OF IMPACT			IMPACT EVALUATION						POTENTIAL MITIGATION MEASURES
	Will the implementation and operations of the project activities within the selected site generate the following externalities / costs / impacts?			Extent or coverage (on site, within 3km -5km or beyond 5km)			Significance (Low, Medium, High)			
		No	Yes	On Site	Within 3-5 km	Beyond 5km	Low	Medium	High	
2.0	**SCREENING CRITERIA FOR IMPACTS DURING IMPLEMENTATION AND OPERATION**									
2.1	Deforestation									
2.2	Soil erosion and siltation									
2.3	Siltation of watercourses, dams									
2.4	Environmental degradation arising from mining of construction materials									
2.5	Damage of wildlife species and habitat									
2.6	Increased exposure to agro-chemical pollutants									
2.7	Hazardous wastes, Asbestos, PCB's									
2.8	Nuisance - smell or noise									
2.9	Reduced water quality									
2.10	Increase in costs of water treatment									
2.11	Soil contamination									
2.12	Loss of soil fertility									
2.13	Salinization or alkalinisation of soils									
2.14	Reduced flow and availability of water									
2.15	Long term depletion of water resource									
2.16	Incidence of flooding									
2.17	Changes in migration patterns of animals									
2.18	Introduce alien plants and animals									
2.19	Increased incidence of plant and animal diseases									

	AREAS OF IMPACT			IMPACT EVALUATION						POTENTIAL MITIGATION MEASURES
	Will the implementation and operation of the project activities within the selected site generate the following socio-economic costs/impacts?			Extent or coverage (on site, within 3km -5km or beyond 5km)			Significance (Low, Medium, High)			
		No	Yes	On Site	Within 3-5 km	Beyond 5km	Low	Medium	High	
3.0	**SCREENING CRITERIA FOR SOCIAL AND ECONOMIC IMPACTS**									
3.1	Loss of land/land acquisition for human settlement, farming, grazing									
3.2	Loss of assets, property-houses ,agricultural produce etc									
3.3	Loss of livelihood									
3.4	Require a RAP or ARAP[2]									
3.5	Loss of cultural sites, graveyards, monuments[1]									
3.6	Disruption of social fabric (mix culture)									
3.7	Interference in marriages for local people by workers									
3.8	Spread of STIs and HIV and AIDS, due to migrant workers									
3.9	Increased incidence of communicable diseases-Malaria,Typhod, Cholera									
3.10	Health hazards to workers and communities eg dust, sewage, sludge, pond.									
3.11	Changes in human settlement patterns eg relocation									
3.12	Conflicts over use of natural resources e.g. water, land, live stockers etc									
3.13	Conflicts on land ownership farmers /settlers/									
3.14	Disruption of important pathways, roads, Animal/ livestock cordials									
3.15	Increased population influx									

[1]NOTE: Projects affecting cultural property negatively will either require specific institutional arrangements to be followed for funding or will not be funded depending on the location of the project

[2] RAP =Resettlement Action Plan, ARAP = Abbreviated (condensed) Resettlement Action Plan

3.2 OVERALL EVALUATION OF THE SCREENING PROCESS ON THE SITE AND PROJECT ACTIVITY

The result of the screening process would be either: (a) the proposed project would be permitted to proceed on the basis of undertaking the identified mitigation measures as part of the project or (b) the proposed project would need an EIA. The basis of these options is listed in the table below:

The Proposed Project Activity Can Be Exempted From EIA and/or RAP Requirements On The Following. CATEGORY "C"	The Proposed Project Activity Needs Further Compliance With EIA Requirements On The Following Observations. CATEGORY "A OR B"
• Screening indicates that the site of the project will not be within environmentally–sensitive areas .e.g. protected areas	• Field appraisals indicate that the project site is within environmentally –sensitive areas, protected areas.
• No families will be displaced from the site	• Cause adverse socio-economic impacts
• Identified impacts are minor, marginal and of little significance	• Significant number of people, families will be displaced from site
• Mitigation measures for the identified impacts are well understood and practiced in the area	• Some of the predicted impacts will be long term, complicated, extensive
• The stakeholders have adequate practical experiences in natural resource conservation and management.	• Appropriate mitigation measures for some predicted impacts are not well known in the area

No.3

An Example of Environmental and Social Management Checklist and Monitoring Plan for Category C

ITEM NO.		POTENTIAL ENVIRONMENTAL/SOCIAL IMPACT	PROPOSED CONTROL / MITIGATION MEASURES AND TIMING	RESPONSIBLE INSTITUTION	MONITORING INSTITUTION/	MONITORING FREQUENCY	MONITORING INDICATORS
1.0	**ACTIVITY :- Site clearance** **For: survey, Main pipeline, sewer line, distribution networks, dam exploration, haul road, waste rocks damp, borrow pits, borehole reconnaissance and drilling mud pits locations, intake structure, treatment plants and storage structures buck wash ways, air valves chambers and drainages, waste treatment plants, fire hydrants Office building**						
		Nuisance (noise and dust), Soil Erosion, land degradation, loss of biodiversity, siltation, Loss of farm land, other assets, or impact on people's property, source of livelihood, Water pollution from loose soil, hips of shrubs rabbles, removal of top soil.	• Regulate traffic speed and movement. Apply daily water sprays to suppress dust. • Enforce permission for any land use, • Stockpile all stripped top soil for use in rehabilitation, • collect and use indigenous plants for rehabilitation • Compaction of loose material, provide diversion of storm water flows from construction sites. Minimize destruction of peoples' livelihood facilities.	Contractor /Consultant	MoWI (DWR,DCWS,DCWSS), PCT NEMC DAWASA DAWASCO UWSA BWO DWST. TSP,DEMC TSP (Technical Service Providers)	Quartely Weekly during construction	Number of complaints, Quantities of soil lost in halters, Formation of gullies, Water quality (turbidity) in streams and road drainages.
			• Limit number of vehicles and area of construction. • Proper and regular maintenance of vehicles, plants • Apply daily water sprays to suppress dust. • Re-vegetation.	Contractor /Consultant	TSP, DWST. DEMC	Weekly during the entire period of construction	

ITEM NO.		POTENTIAL ENVIRONMENTAL/SOCIAL IMPACT	PROPOSED CONTROL / MITIGATION MEASURES AND TIMING	RESPONSIBLE INSTITUTION	MONITORING INSTITUTION/	MONITORING FREQUENCY	MONITORING INDICATORS
2.0	**ACTIVITY : Construction and maintenances of:-** **Main pipeline, sewer line, distribution networks, dam exploration, haul road, waste rocks damp, borrow pits, borehole reconnaissance and drilling mud pits locations, intake structure, treatment plants and storage structures back wash ways, air valves chambers and drainages, waste treatment plants, fire hydrants Office building**						
		Water pollution from oil spills, Loss of aesthetics, land degradation, soil erosion and siltation, disturbance of aquatic life , construction and packing waste and solid waste, Siltation and flooding of water bodies, Nuisance (noise and dust)	• Proper and regular maintenance of vehicles, plants • Construction of oil interceptor for workshop discharges. • Construct proper waste disposal facilities • Ensure proper operation and maintenance of waste disposal facilities	Contractor /Consultant	MoWI (DWR,DCWS,DCWSS), PCT NEMC DAWASA DAWASCO UWSA BWO DWST. TSP,DEMC	Quartely Weekly during the entire period of construction	Water quality (Oil content) Water quality (pollution parameters such as, BOD, COD, Coliform etc), Number of complaints
			• Limit number of vehicles and area of construction. • Compaction of loose material. • Diversion of storm water flows from construction sites. • Proper design and construction of drainage channels. • Regulate traffic speed and movement. Apply daily water sprays to suppress dust.	Contractor /Consultant	TSP, DWST. DEMC	Weekly during the entire period of construction	Water quality (Total and suspended solids
		Loss of biodiversity (animals, trees, vegetation, and greenery beauty).	• Minimise number of trees cut. • Limit construction area. • Re-vegetation.	Contractor /Consultant	MoWI (DWR,DCWS,DCWSS), PCT NEMC DAWASA DAWASCO UWSA BWO DWST. TSP,DEMC	Quartely Weekly	Number of trees cut Area of land cleared

ITEM NO.		POTENTIAL ENVIRONMENTAL/SOCIAL IMPACT	PROPOSED CONTROL / MITIGATION MEASURES AND TIMING	RESPONSIBLE INSTITUTION	MONITORING INSTITUTION/	MONITORING FREQUENCY	MONITORING INDICATORS
		Loss of farm land, other assets, or impact on livelihood	• Follow proper land acquisition procedures. • Provide alternative and prepare RAP based on RPF. • Provide compensation.	Contractor/Consultant	MoWI (DWR,DCWS,DCWSS), PCT NEMC DAWASA DAWASCO UWSA BWO DWST. TSP,DEMC	Once during design Every three months during construction Weekly	Area of land lost to project activities -Type and quantity of assets lost
3.0	**ACTIVITY :OPERATION AND MAINTENANCE:-** **Operation of Main pipeline, sewer line, distribution networks, dam exploration, haul road, waste rocks damp, borrow pits, borehole reconnaissance and drilling mud pits locations, intake structure, treatment plants and storage structures buck wash ways, air valves chambers and drainages, waste treatment plants, fire hydrants, Office building.**						
		Increase in spread of STI's					
		Vector diseases	• Install aprons, drains and soak ways. • Use lined drainage canals or pipes to avoid water logging. • Unblock sewer line • Prohibit misuse of storm drains • Procure and operate additional cesspit empties • Conduct hygiene education.	Water users, DWE, UWSA, BWOs,	DWST, DHO MOH, NGOs&CBOs DAWASA DAWASCO UWSA BWO DWST. TSP,DEMC	Once every month during construction quarterly in the entire operation	Number of new cases of infected persons Increase in vectors dominated area.
		Discharge of Sewage Effluent	• Improve treatment before discharge. • Expand/extend sewerage coverage. • Construct adequate wastewater disposal facilities. • Provide appropriate sampling site. • Establish sludge pond to offload cesspit empties.	DWE, UWSA, BWOs .WUA,	DWST, DEO, DEMC DAWASA DAWASCO UWSA BWO DWST. TSP,DEMC	Every week during the entire operation quarterly in the entire operation	Number of reported complaints. No Sewage in storm drains. Effluent quality Number of Disposal facilities

ITEM NO.		POTENTIAL ENVIRONMENTAL/SOCIAL IMPACT	PROPOSED CONTROL / MITIGATION MEASURES AND TIMING	RESPONSIBLE INSTITUTION	MONITORING INSTITUTION/	MONITORING FREQUENCY	MONITORING INDICATORS
		Regulation of catchment areas against encroachment	• Ensure resettlement policy is adhered to (LGF). • Enhance land use plan and appropriate agricultural practices. • Abolish river line cultivation	WUE Local Council, BWOs, DNRO	DWST, LGC, Min. Lands. DEMC	Every month	Number of complaints
4.0	**ACTIVITY :- Decommissioning/demobilization** **Main pipeline, sewer line, distribution networks, dam exploration, haul road, waste rocks damp, borrow pits, borehole reconnaissance and drilling mud pits locations, intake structure, treatment plants and storage structures buck wash ways, air valves chambers and drainages, waste treatment plants, fire hydrants, Office building.**						
		Nuisance	• Regulate traffic speed and movement. Apply daily water sprays to suppress dust.	Contractor /Consultant	DWST. DEMC	During decommissioning	Number of complaints on dust
		Demolition of construction site	• Reinstatement of site. • Backfill all voids where possible and reinstate water courses around the sites. • Re-vegetate	Contractor	TSP, DWST. DEMC	During decommissioning	
		Decreased employment levels leading to vandalism of project facilities	• Pay terminal benefits where appropriate. • Provide awareness and counselling for retrenchment consequences. • Hold meetings with local communities to discuss decommissioning and closure issues.	Contractor/Local Leaders	LGA, DEMC	Ongoing	

No.4

Projects Requiring EIA - Mandatory List

1. Agriculture
* Cultivating arid and semi-arid areas not less than 0 ha.
* Water management projects for agriculture (drainage, irrigation)
* Large scale farming of not less 50ha - mono- culture and mixed cropping of cash or food crops
* Pest control projects such as Tsetse, Army worm, Quelea quelea, Locusts, Rodents, weeds)etc.
* Fertilizer and nutrient management
* Agricultural programmes necessitating the resettlement of communities.
* Introduction of new breeds of crops.
* Introduction of Genetically Modified Organisms
* Floriculture
* Salt pans
* Introduction of new farming technologies

2. Livestock and Range management
* Large Scale livestock movement
* Livestock markets
* Introduction of new breeds of livestock
* Introduction of forage species
* Fencing
* Provision of public water supply (watering points, wells)
* Ectoparasite management (cattle dips, area treatment)
* Intensive livestock rearing units
* Livestock routes
* Introduction of GMOs
* Introduction of new livestock management technologies

3. Forestry activities
* Timber logging, harvesting and processing
* Forest plantation
* Afforestation and Reforestation
* Introduction of new species
* Selective removal of commercial tree species
* Pest management
* Introduction of GMOs
* Introduction of new forestry management technologies

4. Fisheries activities
* Medium to large scale fisheries
* Artificial fisheries such as aqua-culture for fish, algae, crustaceans shrimps, lobster or crabs).
* Introduction of new species in water bodies
* Fish farming
* Introduction of Genetically Modified Organisms
* Introduction of new fishing technologies

5. Wildlife
* Introduction of new species
* Wildlife catching and trading
* Hunting
* Wildlife ranching and farming
* Zoo and sanctuaries
* Introduction of Genetically Engineered Species
* Fencing

6. Tourism and Recreational Development

∗ Construction of resort facilities or hotels along the shorelines of lakes, rivers, islands, marine parks, and oceans as well as national parks, forest reserves etc.)
∗ Hill top resort or hotel development
∗ Development of tourism or recreational facilities in protected and adjacent areas (national parks, marine parks, forestry reserves etc) or on islands and in surrounding waters
∗ Hunting and capturing
∗ Camping activities walk ways and trails etc.
∗ Sporting and race tracts/sites
∗ Tour operations
∗ Development of Eco tourism and cultural tourism centers.

7. Energy Industry

∗ Production and distribution of electricity, gas, steam and hot water
∗ Exploration, Transmission, Development and Storage of natural gas
∗ Thermal power development such as coal, nuclear
∗ Geothermal
∗ Hydro-power
∗ Bio-mass power development such as co-generation
∗ Wind -mills power development
∗ Solar power development
∗ Nuclear energy
∗ Hydrogen energy
∗ Introduction of new technologies in the energy sector

8. Petroleum Industry

∗ Oil and gas fields exploration and development, including seismic survey
∗ Construction of offshore and onshore pipelines
∗ Construction of oil and gas separation, processing, handling and storage facilities.
∗ Construction of oil refineries
∗ Construction of product depots for the storage of petrol, gas, diesel, tar and other products within commercial, industrial or residential areas.
∗ Transportation of petroleum products

9. Food and beverage industries

∗ Manufacture of vegetable and animal oils and fats
∗ Oil refinery and ginneries
∗ Processing, preservation and storage of meat and its products
∗ Manufacture of dairy products
∗ Brewing, distilling and malting
∗ Fish meal factories
∗ Slaughter - houses
∗ Soft drinks
∗ Tobacco processing
∗ Caned or bottled fruits etc
∗ Sugar factories
∗ Other agro-processing industries
∗ Genetically Modified organisms and products thereof

10. Textile Industry

∗ Cotton and Synthetic fibers
∗ Dye for cloth
∗ Ginneries
∗ Introduction of Genetically modified products such clothes

11. Leather Industry

∗ Tanning
∗ Tanneries
∗ Dressing factories
∗ Other cloth factories

∗ Introduction of GMO products such as shoes

12. Wood, Pulp and Paper Industries
∗ Manufacture of veneer and plywood
∗ Manufacture of fibre board and of particle - board
∗ Manufacture of pulp, paper, sand-board cellulose – mills

13. Building and Civil Engineering Industries.
∗ Industrial and housing estates
∗ Major urban projects such as multi-storey building, motor terminals, markets etc)
∗ Tourist structures and facilities
∗ Construction and expansion or upgrading of roads, harbours, highways, ship yards, fishing harbours, landing sites air fields, airports, railways, pipelines etc
∗ River drainage and flood control works.
∗ Hydro - electric and irrigation dams
∗ Reservoir
∗ Storage of scrap metal.
∗ Military installations
∗ developments on beach fronts

14. Chemical industries
∗ Manufacture, transportation, use and storage of pesticide or other hazardous and or toxic chemicals
∗ Production of pharmaceutical products
∗ Storage facilities for petroleum, petrochemical and other chemical products (i.e. filling stations)
∗ Production of paints, vanishes, etc
∗ Disposal of chemical waste

15. Extractive industry
∗ Extraction of petroleum
∗ Extraction and purification of natural gas
∗ Other deep drilling - bore-holes and wells
∗ Mining
∗ Quarrying
∗ Coal mining
∗ Sand dredging

16. Non-metallic Industries Products
∗ Manufacture of cement, asbestos, glass, glass-fibre, glass-wool
∗ Processing of rubber
∗ Plastic industry
∗ Mime manufacturing, tiles, ceramics

17. Metal and Engineering industries
∗ Manufacture and assembly of motor – vehicles
∗ Manufacture and assembly of aero planes, ships, trains
∗ Manufacture and assembly of satellites
∗ Manufacture of other means of transport such as trailers, motor-cycles, bicycles-cycles
∗ Body - building
∗ Boiler - making and manufacture of reservoirs, tanks and other sheet containers
∗ Foundry and Forging
∗ Manufacture of non - ferrous products
∗ Iron and steel
∗ Electroplating

18. Waste treatment and disposal
(a) Toxic and Hazardous waste
∗ Construction of Incineration plants
∗ Construction of recovery plant (off-site)
∗ Construction of waste water treatment plant (off-site)
∗ Construction of secure land fills facility

∗ Construction of storage facility (off-site)
∗ Collection and transportation of waste.

(b) Solid Waste

∗ Construction of incineration plant
∗ Construction of composting plant
∗ Construction of recovery/re-cycling plant
∗ Construction of Municipal Solid Waste landfill facility
∗ Construction of waste depots
∗ Collection and transportation

(c) Sewage

∗ Construction of waste water treatment plant
∗ Construction of marine out fall
∗ Night soil collection transport and treatment
∗ Construction of sewage system

19 . Water Supply

∗ **Canalisation of water courses**
∗ **Diversion of normal flow of water**
∗ **Water transfers scheme**
∗ **Abstraction or utilization of ground and surface water for bulk supply**
∗ **Water treatment plants**

20. Health projects

∗ Vector control projects (malaria, bilharzia, trypanosomes etc)
∗ Construction and location of hospitals, dispensaries and health centers
∗ Construction and development of Pharmaceutical industries

21. Land Reclamation and land development

∗ Rehabilitation of degraded lands.
∗ Coastal land reclamation
∗ Dredging of bars, groins, dykes, estuaries etc.
∗ Spoil disposal
∗ Sea walls

22. Resettlement or relocation of people and animals

∗ Establishment of refugee camps
∗ Dam construction
∗ Establishment, expansion or rehabilitation of roads
∗ Change of land use such as mining, pastoralist against farmers
∗ Urban expansion

23. Multi-sectoral Projects

∗ Agro-forestry
∗ Dispersed field of tree inter-cropping
∗ Alley cropping
∗ Living fences and other linear planting
∗ Windbreak or shelterbelts
∗ Integrated conservation and development programmes such as Wildlife Management Areas.
∗ Integrated Pest Management
∗ Diverse construction - public health facilities, schools and storage buildings, facilities for ecotourism and field research in protected areas, logging mills, furniture making, access roads, well drilling, camps, dams, reservoirs etc.
∗ River basin development and watershed management projects
∗ Food aid, humanitarian relief
∗ Oil refineries and ginneries

24 Trade: Import and Export

∗ Hazardous Chemicals or Waste
∗ Plastics
∗ Petroleum products

* Vehicles
* Used materials
* Wildlife and wildlife products
* Pharmaceuticals
* Food
* Beverages
* Genetically Modified Organisms and products thereof.

Note that Section 104 of the Draft Environment Management Project specifies some projects which need review and approval of the Minister Responsible for environment before EIA has to be undertaken

No.5

PROJECTS (SMALL-SCALE ACTIVITIES AND ENTERPRISES) THAT MAY OR MAY NOT REQUIRE EIA.

* Fish small scale culture
* Bee-keeping
* Small animal husbandry and urban livestock keeping
* Horticulture and floriculture
* Wildlife catching and trading
* Production of tourist handicrafts
* Charcoal production
* Fuel wood harvesting
* Tree Nurseries,
* Small enterprises
* Carpentry shops
* Wooden furniture and implement making
* Basket and other weaving
* Nuts and seeds for oil processing
* Bark for tanning processing
* Brewing and distilleries
* Taungya system
* Bio-gas plants
* Bird catching and trading
* Hunting
* Wildlife ranching
* Zoo, and sanctuaries
* Tie and dye making
* Brick making
* Beach seining
* Sea weed Farming
* Graves and cemeteries
* Urban Livestock Keeping
* Urban agriculture.
* Fish landing stations.
* Wood carving and sculpture
* Schools, dispensaries, community centre, Schools, Social halls, and play grounds
* Wood works e.g. boat building
* Market places
* Rain water harvesting
* Garages
* Carpentry
* Black smith.
* Tile manufacturing
* Kaolin manufacturing
* Vector control projects e.g. Malaria, Bilharzia, trypanosomes
* Livestock stock routes
* Fire belts.
* Tobacco curing kilns
* Sugar refineries
* Artisanal and small scale mining
* Rural road

Data Book H

Handpump Repairing Data

H.1 Inspection sheet S/N.1

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	1	Date / / 2010	
District	: IGUNGA		
Ward	: IGOWEKO	(No. 4)	
Village	: USWAYA	(No. 14)	
Sub-village	: MWAKADELE	(No.) Location	: KAMATA
Coordinate	: Longitude 4.70397	Latitude	33.51948
Pump Type	: AFRIDEV		

Repairing Works

Bearing bush – 4 pcs, Fulcram pin – 2 pcs, Bolts & nuts – 4pcs, Cup U seal – 1 pc
O-ring – 1 pc, Raiser main – 2 pcs of 3.0m,
Measurement:
well depth 14.70m, water level 2.0m, pump position 13.0m

Response and Situation of Village

Very happy

Water Committee or Water User Goup

They have a water committee of 12 people, 7 women and 5 men

Reserve Found

They have a water fund but no in the bank intents to call a meeting to discuss how to contribute more funds for their water supply.

Result and Remarks

The pump is working good after fixing new spare parts.

H.2 Inspection sheet S/N.2

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	2	Date 23 / 09 / 2010	
District	: IGUNGA		
Ward	: IGUNGA	(No. 5)	
Village	: IGUNGA SMALL	(No. 16)	
Sub-village	: STORE	(No. 103) Location	: MARKET
Coordinate	: Longitude 4.27886	Latitude	33.87529
Pump Type	: AFRIDEV		

Repairing Works

Two set bearing bush – 4 pcs, Fulcram pin 2 pcs – Raiser main 3m – 2 pcs
Cup –U – Seal 1 pc, Bolts &nuts – 4 pcs, O-Ring – 1 pc, Flapper rubber 1 pc

Measurement:
well depth 19.0m, Water level 6.0m, pump intake 18.0m

Response and Situation of Village

People are very happy

Water Committee or Water User Goup

They have a water committee of 8 people 4 women and 4 men

Reserve Found

They dont have a water fund, but intent to call the meeting and discuss the issue.

Result and Remarks

Pump working good after replacing new spare parts

H.3 Inspection sheet S/N.3

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	3	Date 21 / 10 / 2010	
District	: IGUNGA		
Ward	: MWISI	(No.)	
Village	: BUSOMEKE	(No.)	
Sub-village	: KATI	(No.) Location	: KALUMA
Coordinate	: Longitude 4.52631	Latitude	33.46684
Pump Type	: MALDA/TANIRA		

Repairing Works

Pull out the handpump
Replacement of new spare parts
1m raising main 1pc
1m rod 1 pc
Shock absorber 1 pc – for repairing the pump handle
Repairing of well cover

Response and Situation of Village

They were very happy after their handpump have been repair now they will drink clean and healthy water.

Water Committee or Water User Goup

They have a village water committee with 6 leaders 3 women and 3 men. At all the village get water from the well.

Reserve Found

They have a bank account Tshs. 150,000/= at Bank for water uses

Result and Remarks

The handpump now is good

H.4 Inspection sheet S/N.4

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	4	Date / / 2010	
District	: IGUNGA		
Ward	: NDEMBEZI	(No. 18)	
Village	: MOYOFUKE	(No. 64)	
Sub-village	: SHELUI	(No. 440) Location	:Mr. Yohana Mishoro
Coordinate	: Longitude 4.33267	Latitude	33.53713
Pump Type	: AFRIDEV		

Repairing Works

Bearing bush 4 pcs
U – seal 1 pc
Foot valve receiver 1 pc
Fulcram pin 1 pc
Rope 100m, Nuts 4 pcs

Measurements:

Response and Situation of Village

The people of the village are happy to get water again

Water Committee or Water User Goup

They have a water committee of 8 people being 4 men and 4 women

Reserve Found

They have the funds now they want to open water account their handpump

Result and Remarks

The pump now is in good condition the water is enough. They know how to pull out the pump and repair the damaged parts.

Fix the pump again.

H.5 Inspection sheet S/N.5

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	5			Date 09 / 08 / 2010	
District	: NZEGA				
Ward	: IGUSULE			(No. 3)	
Village	: SOJO			(No. 6)	
Sub-village	: NSEME		(No. 40	Location	: NSEME
Coordinate	: Longitude	3.93916		Latitude	32.86778
Pump Type	: AFRIDEV				

Repairing Works

Bearing bush
Cup – U – Seal
O – ring

Response and Situation of Village

They have 57 household about 400 people fetching water daily and each family about 8 buckets of 20Lts equals to 64,000 Lts daily

Water Committee or Water User Goup

They have water committee of 6 peoples, 3 women and 3 men.

Reserve Found

They have Bank Account amount 118,000/= since 2007 They want to contribute again so that to have more funds for their water user group for services and repair

Result and Remarks

Repairing and Training works were completed very well
Monitoring is necessary

H.6 Inspection sheet S/N.6

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	6			Date 09 / 08 / 2010	
District	: NZEGA				
Ward	: IGUSULE			(No. 3)	
Village	: SOJO			(No. 6)	
Sub-village	: BOMBANI		(No. 36	Location	: Bombani 1
Coordinate	: Longitude	3.95529		Latitude	32.86791
Pump Type	: AFRIDEV				

Repairing Works

Bearing bush
Flapper rubber
Cup – U – seal
O – Ring

Response and Situation of Village

They will open account for water
The handpump working well they are very ahpp with the repairing handpump

Water Committee or Water User Goup

They have water committee of 8 people, 4 women and 4 men

Reserve Found

They will have a meeting today at 3.00pm to discuss water issues and to open a bank account.

Result and Remarks

Repairing and Training were completed very well
Monitoring is necessary

H.7 Inspection sheet S/N.7

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	7	Date 01 / 08 / 2010	
District	: NZEGA		
Ward	: IGUSULE	(No. 3)	
Village	: SOJO	(No. 6)	
Sub-village	: BOMBANI (No. 36)	Location	: BOMBANI
Coordinate	: Longitude 3.96673	Latitude	32.86692
Pump Type	: AFRIDEV		

Repairing Works
- Pull Out the handpump
- Remove damaged parts
- Replacement of new spare parts
- - Bearing bush
- -Flaaper rubber 1pc
- -O-ring 1 pc
- -U - Seal 1 pc
- -Planger assembly

Measurement:
well depth 59.0m
Water level 11.0m
Pump position 45.0m

Response and Situation of Village

Water Committee or Water User Goup

Reserve Found

Result and Remarks
- Enough water is coming out after installtion of the new spareparts.
- Need more training and maintenance of the handpump

H.8 Inspection sheet S/N.8

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	8	Date 09 / 08 / 2010	
District	: NZEGA		
Ward	: IGUSULE	(No. 3)	
Village	: SOJO	(No. 6)	
Sub-village	: NGOGOTO (No. 39)	Location	:
Coordinate	: Longitude 3.98578	Latitude	32.85896
Pump Type	: AFRIDEV		

Repairing Works
- Bush bearing
- Raising main 8 Nos fo 3.00m each
- Rods 8 Nos of 3.00m each
- Cup - U - Seal
- O - Ring
- Flapper rubber
- Cylinder complete

Response and Situation of Village

They intend to contribute money to open Bank account and orm water committee.

Water Committee or Water User Goup

They had water committee, but it is not functionable due to handpump got broken two years ago.
Now they want to form the water committee because their handpump is functioning.

Reserve Found

No fund for water account
They intend to contribute and open the water Bank account.

Result and Remarks

Pump working good after replacing new spare parts

H.9 Inspection sheet S/N.9

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	9			Date 09 / 08 / 2010	
District	: NZEGA				
Ward	: IKINDWA			(No. 5)	
Village	: KAYOMBO			(No. 14)	
Sub-village	: MATALE		(No. 97)	Location	: MATALE
Coordinate	: Longitude	4.1498		Latitude	32.89951
Pump Type	: TANIRA				

Repairing Works

Sleeve Bearing
Shock arbsorber
Pluncher Ring

Response and Situation of Village

Meeting to form water fund each family to pay 1500.=

Water Committee or Water User Goup

Water committee of 6 people, 3 women and 3 men. There was a meeting top open Bank account
Each household to contribute 1500/=

Reserve Found

No water Account

Result and Remarks

Repairing and training were completed very well
Monitoring is necessary

H.10 Inspection sheet S/N.10

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	10			Date 09 / 08 / 2010	
District	: NZEGA				
Ward	: IKINDWA			(No. 5)	
Village	: MALOLO			(No. 15)	
Sub-village	: MALOLO		(No. 107)	Location	:
Coordinate	: Longitude	4.09841		Latitude	32.89951
Pump Type	: TANIRA				

Repairing Works

Apron and well cover
Sleeve bearing
Plucher Ringe

Response and Situation of Village

Water Committee or Water User Goup

3 women and 3 men

Reserve Found

No fund reserved

Result and Remarks

Repairing and training completed very well

H.11 Inspection sheet S/N.11

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	11	Date: 24 / 9 / 2010	
District	: NZEGA		
Ward	: IKINDWA	(No. 5)	
Village	: MALOLO	(No. 15)	
Sub-village	: LKILIHALYOHA	(No. 105) Location	: KILYALYOHA
Coordinate	: Longitude 4.0879	Latitude	32.89
Pump Type	TANIRA		

Repairing Works
- Apron construction and well cover
- Sleeve bearing – 1 pc
- hexagon screw – 4 pcs
- Shock absorber – 1 pc
- pluncher Ring – 1 pc

Pull out the hand pump
Measurement:
- well depth 4.3m
- water level 0.75 and
- pump position 4.0m

Before repairing the handpump was not working. After repairing the pump is working well and enough water.

Water Committee or Water User Goup
They have a water committee of 8 people, 4 men and 4 women

Reserve Found
They have the fund of Tshs. 150,000/= only and intends to open a bank account.

Result and Remarks
The handpump is in good condition and working producing enough water to the users.

H.12 Inspection sheet S/N.12

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	12	Date / / 2010	
District	: NZEGA		
Ward	: ITOBO	(No. 8)	
Village	: ITOBO	(No. 27)	
Sub-village	: NYASULI	(No. 181) Location	:
Coordinate	: Longitude 4.17673	Latitude	33.03605
Pump Type	: TANIRA		

Repairing Works
Apron construction
Cylinder complete
Sleeve bearing
Shock absorber
Repairing well cover
Inspection cape
Training pump care taken and leaders of water committee

Response and Situation of Village
Good responce, clean the surrounding
They put the fence around the well
They will buy lock for the inspection cape and promised to hand fund for water account

Water Committee or Water User Goup
They have water committee

Reserve Found
They do not have any fund
No bank account

Result and Remarks

Repairing and training works are completed very well withou any problem
Monitoring is necessry for maintenance of this pum especially for fund

H.13 Inspection sheet S/N.13

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	13	Date 24 / 09 / 2010	
District	NZEGA		
Ward	KAHAMA/HARANGA	(No. 10)	
Village	NHABALA	(No. 35)	
Sub-village	: NHABALA	(No. 251 Location	: NHABALA
Coordinate	: Longitude 4.1392	Latitude	32.6931
Pump Type	: TANIRA		

Repairing Works

Construction of Apron and Well cover
Well deepening and cleaning
- Sleeve Bearing 1 pc
- Cylinder complete
- Shock arbsorber
- Pluncher ring and

Repair inspection cape.

Measurements:
- well depth 8.6m
- water level 3.0m
- pump intake 7.0m

Response and Situation of Village

After repairing the handpump now is working and the people of the village are very happy enjoying fetching water.

Water Committee or Water User Goup

They have a water committee of 6 people 3 man and 3 women

Reserve Found

They contributed 185,000/= intends to open Bank Account

Result and Remarks

The handpump is working well after repairing the water committee are able to pull out the handpump fix the damaged parts and install the handpump again.

H.14 Inspection sheet S/N.14

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	14	Date 09 / 08 / 2010	
District	: NZEGA		
Ward	: KASELA	(No. 12)	
Village	: KASELA	(No. 40)	
Sub-village	: NJUKA	(No. 283) Location	: NJUKA 2
Coordinate	: Longitude 4.0917	Latitude	32.99449
Pump Type	: TANIRA		

Repairing Works

Apron repairing
Sleeve bearing
Shockarbsorber
Inspection cape

Response and Situation of Village

They have the meeting one of the agenda discussing about bank account to buy locks for their handpump and inspection cape. We met they on the meeting and talk with them about opening A/C

Water Committee or Water User Goup

They have water committee fo 6 people. 3 women and 3 men.

Reserve Found

They have bank account but domant
They will start collect water funds to ther users and put to the Bank Account (water)

Result and Remarks

Repairing and training works were completed very well
Monitoring is necessary especially for fund

H.15 Inspection sheet S/N.15

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	15	Date 23 / 9 / 2010	
District	: NZEGA		
Ward	: LUSU	(No. 13)	
Village	: IFUMBA	(No. 46)	
Sub-village	: IFUMBA	(No. 307) Location	: KALEMANI
Coordinate	: Longitude 4.00878	Latitude	33.23615
Pump Type	: AFRIDEV		

Repairing Works
- Raiser main – pc of 3.0m. Flapper Rubber 1 pc
- O.ring – 1 pc
- Bearing bush 2 sets
- Cylinder pipe – pc
- Cylinder pipe – 1 pc
- Rods 2 pcs of 3.0m
- Measurement of well Depth – 58.0m
- Water level – 8.4m
- Pump position – 50.0m

Response and Situation of Village
People are happy after thier handpump has been repaired and produce water.

Water Committee or Water User Goup
they have the water committee of 8 people, 4 women and 4 men

Reserve Found
They have a village fund for water. Intends to open account bank for water user group. The village A/C is Tshs. 150,000/=

Result and Remarks
After installation of new spare parts and the handpump. Their handpump produced enough water.

H.16 Inspection sheet S/N.16

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	16	Date : 20 / 9 / 2010	
District	: NZEGA		
Ward	: LUSU	(No. 13)	
Village	: ISANGA	(No. 47)	
Sub-village	: IPONYAMADUMU	(No. 310) Location	: MLIMANI
Coordinate	: Longitude 4.05408	Latitude	33.19274
Pump Type	: AFRIDEV		

Repairing Works
Replacement of new spare parts
- Bearing bush 4 pcs , Raising main 10pcs of 3.0m , Cylinder complete 1 pc
- Flapper rubber 1 pc
- Rod/pump rod 1 pc of 3.0m
- Rope – 120m

Measurement:
- Well depth – 58.0m
- Water level – 6.0m
- Pump position 35.0m

The pump is working

Response and Situation of Village
They are very happy after repairing their pump.

Water Committee or Water User Goup
They have a water committee of 6 people, 3 men and 3 women

Reserve Found
They do not have a water account but propose to call a meeting of all the user group to discuss about opening the water account.

Result and Remarks
Good pumping
Produced enough water

H.17 Inspection sheet S/N.17

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	17	Date	23 / 09 / 2010
District	: NZEGA		
Ward	: LUSU	(No. 13)	
Village	:MWALUZWILO	(No. 49)	
Sub-village	:BUJINJA	(No. 318) Location :	
Coordinate	: Longitude 4.01767	Latitude	33.20427
Pump Type	: AFRIDEV		

Repairing Works

Pull out the handpump,
Remove the damaged parts
Replacement of new spareparts
- One set of bearing bush , Flapper rubber
- U – seal and , O – ring

Measurement:
- Well depth 53m
- Pump installation 50m
- Water level 25m

Response and Situation of Village

The people were very happy after seeing their handpump is working again and produced enough water.

Water Committee or Water User Goup

They have the water committee of 3 women and 3 men.

Reserve Found

They dont have a water account but intends to meet to discuss the issued, contribute the funds and open bank account for water.

Result and Remarks

After replacement and fixed new parts the hand pump is working very good enough water is coming out.

H.18 Inspection sheet S/N.18

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	18	Date:	24 / 09 / 2010
District	: NZEGA		
Ward	: MAGENGATI	(No. 14)	
Village	: MAGENGATI	(No. 54)	
Sub-village	: CHANG'OMBE	(No. 349) Location	: CHANG'OMBE
Coordinate	: Longitude 4.81132	Latitude	33.0574
Pump Type	: TANIRA		

Repairing Works

Pull out the handpump
Removed damaged parts
Replacement of new spare parts
- Plunher Ring – 1 pc
- Raiser couline – 1pc
- Hexagon screw – 1 pc

Measurement:
- Well depth – 3.30m
- Water level 1.50m
- Pump position 3m

Response and Situation of Village

The village people were very happy after their handpump produces enough water

Water Committee or Water User Goup

They have a water commitee of 6 people, 3 women and 3 men

Reserve Found

No water Account

Result and Remarks

Need more training in operation and maintenance.
Distric water office to visit the village for discussion of opening bank account for the handpump

H.19 Inspection sheet S/N.19

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	19	Date: / / 2010	
District	: NZEGA		
Ward	: MBOGWE	(No. 16)	
Village	: MBOGWE	(No. 64)	
Sub-village	: MWANGONGO	(No. 406) Location	: MWANGONGO
Coordinate	: Longitude 4.13952	Latitude	33.25615
Pump Type	: AFRIDEV		

Repairing Works
- Pull out the hand pump
- Removed damaged parts
- Replacement of new spare parts
  - Bearing bush 1 set
  - Flapper rubber 1 pc
  - U seal 1 pc
  - O. Ring 1 pc
- Measurement:
  - Well depth – 50m
  - Water level 12m
  - Pump position 45m

Response and Situation of Village
The villagers are very happy with their handpump after installtion of the new spare parts.

Water Committee or Water User Goup
They have the water committee.

Reserve Found
They have the account (water account at the bank)

Result and Remarks
Enough water is coming out after the installationof the new spare parts.
Need more training on operation and maintenance of the handpump.

H.20 Inspection sheet S/N.20

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	20	Date: 20 / 9 / 2010	
District	: NZEGA		
Ward	:MBOGWE	(No. 16)	
Village	: NHOBOLA	(No. 65)	
Sub-village	: MISANA	(No. 411) Location	: MISANA
Coordinate	: Longitude 4.11259	Latitude	33.28779
Pump Type	: AFRIDEV		

Repairing Works
- Pull out the handpump
- Remove the damaged part
- Replacement of new spare parts

Measurement :
- Well depth 34m
- Water level 6m
- Pump position 30m

After installation started working

Response and Situation of Village
Was very good

Water Committee or Water User Goup
There is a water committee of 6 people, 3 men and 3 women

Reserve Found
They have the water fund of Tshs. 100,000/= and opened for bank account.

Result and Remarks
After repairing and replacement new spare parts the pump starts working.

After one week of working U-seal was damaged then the committee replaced the U-seal, now they will have to buy a new U – seal from CBRC for their repair.

H.21 Inspection sheet S/N.21

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No. 21 Date: 24 / 09 / 2010

District : NZEGA

Ward : MWOGO (No. 20)

Village : USALALA (No. 83)

Sub-village : KING'WANGOKO (No. 520) Location : KING'WANGOKO

Coordinate : Longitude 4.25969 Latitude 32.79955

Pump Type : TANIRA

Repairing Works

Well cover and apron construction

- Pump stand 1 pc
- Sleeve bearing 1 pc
- Shock absorber 1 pc
- 4 hexagon screw and nuts

Measurement:

- Well depth 3.60m
- Water level 2.00m
- Pump position 3.00m

Response and Situation of Village

After repairing the handpump, now is working the village are very happy.

Water Committee or Water User Goup

They have the water committee and contributed about Tshs. 150,000/- They intends to call a meeting to contribute more funds and open bank account.

Reserve Found

Contributed about Tshs. 150,000/- They intends to call a meeting to contribute more funds and open bank account.

Result and Remarks

The handpump is in good working

The committee members now know how to pull out the handpump, fix the damaged parts and install the handpump again without any difficulties or problems.

H.22 Inspection sheet S/N.22

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No. 22 Date 17 / 10 / 2010

District : NZEGA

Ward : MUHUGI (No. 21)

Village : UBINGA (No. 85)

Sub-village : UBINGA (No. 544) Location : UBINGA

Coordinate : Longitude 4.41341 Latitude 33.3073

Pump Type : TANIRA

Repairing Works

Pulling out the handpump

Deepening the well 1m deep

- Put filter rings - 2 pcs of 50cm each
- Sleeve bearing 1 pc
- Shock absorber 1 pc
- Raiser main and rod 1m each
- Apron and well cover

Measurement:

- Well depth 4.4m
- Water level 0.50cm
- Pump intake 4.0m

Response and Situation of Village

Very little response for the villagers.

The deepening of the well is done by CBRC workers

Water Committee or Water User Goup

They have a village water committee

Reserve Found

No funds for the handpump. The village executive office (VEO) will call a meeting to discuss about opening the bank account for the handpump for operations and maintenance.

Result and Remarks

After deepening 1 meter, deep, the water level is only 50cm at the pick of dry season.

During the rain season the water table will rise and the villagers or user group will use the water for eight months per year.

H.23 Inspection sheet S/N.23

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	23	Date: 20 / 9 / 2010	
District	: NZEGA		
Ward	: NATA	(No. 25)	
Village	: KABALE	(No. 105)	
Sub-village	: KASELA	(No. 676) Location	: KABALE
Coordinate	: Longitude 4.05615	Latitude	33.17276
Pump Type	: AFRIDEV		

Repairing Works

Replacement of new spare parts,

- U seal
- Flapper rubber
- O-Ring
- 1 set bearing bush
- Pump position 50m
- Flapper rubber 1 pc
- Bolts and Nuts 4 pcs

Measurement

- Well depth 58m
- Water level 10m
- Pump position 50m

Response and Situation of Village

They are very happy with their pump many household members were around during the repairing.

Water Committee or Water User Goup

They have the water committee.

Reserve Found

They have the funds and intents to open ban account soon.

Result and Remarks

The water user group are able to pul out their pump. They understand repairing damaged parts.
The pump is working well.

H.24 Inspection sheet S/N.24

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	24	Date : 23 / 9 / 2010	
District	: NZEGA		
Ward	: NATA	(No. 25)	
Village	: NATA	(No. 109)	
Sub-village	: NYALAJA	(No. 702) Location	: NYALAJA
Coordinate	: Longitude 4.02962	Latitude	33.13228
Pump Type	: AFRIDEV		

Repairing Works

- Bearing bush 1 set
- U seal
- O ring
- Fulcram pin
- Apron pin
- Apron repairing and well cover
- Foot valve – 1 pc

Response and Situation of Village

Very happy and now they enjoy fetching water

Water Committee or Water User Goup

School committee

Reserve Found

School fund (captation)

Result and Remarks

The handpump is supplying water,
The school children, Teachers and people around the school are happy.
Their getting water full time.

H.25 Inspection sheet S/N.25

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	25	Date	23 / 09 / 2010
District	: NZEGA		
Ward	:UTWIGU	(No. 36)	
Village	: MWANHALA	(No. 147)	
Sub-village	: MWANHALA (No. 969)	Location	: MWANHALA B
Coordinate	: Longitude 4.37591	Latitude	33.14021
Pump Type	: TANIRA		

Repairing Works

Sleeve bearing 1 pc and inspection cape
Shock absorber 1 pc and cylinder complete 1 pc
Hexagon screw 4 pcs
Cylinder pipe 1 pc
Well cover and apron construction
well deepening and cleaning

Measurement:
- Water level – 2.00m
- Well depth – 4.00m
- Pump position – 3.5m

Response and Situation of Village

The response of the village is good, but the owner of that piece of land where the well is, is not happy he needs to be paid, the committee agreed to pay

Water Committee or Water User Goup

4 women and 4 men

Reserve Found

No water account but they intend to call a meeting to discuss the issue of water fund account

Result and Remarks

The owner of that piece of land need to be paid.
The committee agreed to pay her some money in order that piece of land becomes free for the committee members.

H.26 Inspection sheet S/N.26

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	26	Date	20 / 09 / 2010
District	: NZEGA		
Ward	: WELA	(No. 37)	
Village	: MWANSAMBO	(No. 152)	
Sub-village	: MWANSAMBO A (No. 995	Location	: MWANSAMBO
Coordinate	: Longitude 4.0632	Latitude	33.34546
Pump Type	: TANIRA		

Repairing Works

Well cover and apron repair/construction
Handpum was not on site when repairing (it was pu to one committee member)
Replacement of the new spare parts – Pump handle 1 pc , Raiser rod – 3m 1 pc
Measurement:
- Well depth – 5.0m
- Water level 2.0m
- Pump position 4.50m

Pump installation and start working
Deepening and cleaning – inspection cape

Response and Situation of Village

Was very good

Water Committee or Water User Goup

6 people, 3 women and 3 men

Reserve Found

Not yet opened the water account

Result and Remarks

Good working and enough water coming from the pump
Water committee enjoyed the training on handling the pump.

H.27 Inspection sheet S/N.27

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	27		Date 20	/ 09	/ 2010
District	: NZEGA				
Ward	: WE:A		(No. 37)		
Village	: WELA		(No. 153)		
Sub-village	: KITYELO	(No. 1000)	Location	: KITYELO	
Coordinate	: Longitude 4.1426		Latitude	33.29976	
Pump Type	: AFRIDEV				

Repairing Works

Pull out the handpump, removed the damaged parts
Replacement fo new spare parts
- Bearing bush 2 sets – 4 pcs
- U-seal 1 pc
- O-ring 1 pc
- Flapper rubber 1 pc

Measurement:
- Well depth 62.00m,
- Water level 7.8m
- Pump position 55m.

Response and Situation of Village

The response is good

Water Committee or Water User Goup

There is a water committee

Reserve Found

No water account

Result and Remarks

Pump is not working now it is about one week.
Problem is may be with the raiser main CBRC will come with the spares and repair the pump

H.28 Inspection sheet S/N.28

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	28		Date	/	/ 2010
District	: SIKONGE				
Ward	: CHABUTWA		(No. 1)		
Village	: KABANGA		(No. 2)		
Sub-village	: CHANG'OMBE	(No. 3	Location	: MZUMIA	
Coordinate	: Longitude 5.7902		Latitude	072.79/40	
Pump Type	: TANIRA				

Repairing Works

Shock absorber, sleeve bearing, gasket, plunger bottom valve and handle nipple.
Inspection pipe for measuring water table and doxing sodium haypochtrotre

Response and Situation of Village

On the repairing many villagers participated and they were very happy for getting water again.

Water Committee or Water User Goup

Water committee of 8 people, 4 men and 4 women. The meet but not often.

Reserve Found

They opened the Bank account (water account) they will contribute Tshs. 5,000/= for each household after selling their tobacco.

Result and Remarks

Pump working good after replacing new spare parts

H.29 Inspection sheet S/N.29

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	29			Date 03 / 09 / 2010	
District	: SIKONGE				
Ward	: CHABUTWA			(No. 1)	
Village	: KIPANGA MLIMANI			(No. 4)	
Sub-village	: KIPANGA KATI	(No. 10)		Location	: BARAHANI
Coordinate	: Longitude 5.70512			Latitude	32.82202
Pump Type	: TANIRA				

Repairing Works
- Sleeve bearing
- Shock absorber
- Socket head 4
- Hexagon screw
- Plungering,
- Nuts for pedestol and well apron 4
- Inspection screw

Response and Situation of Village

The villager are very happy with their pump

Water Committee or Water User Goup

They have water committee

Reserve Found

They have a bank account of Tshs. 500,000/= at NMB from Jimbo fund.
The water committee contributed about 150,000/=

Result and Remarks

Repairing ok but the cap of water level chacking hole was lost village people will put cap.

H.30 Inspection sheet S/N.30

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	30			Date 03 / 09 / 2010	
District	: SIKONGE				
Ward	: IGIGWA			(No. 2)	
Village	: LUFWISI			(No. 8)	
Sub-village	: LUFWISI	(No. 32)		Location	:
Coordinate	: Longitude 5.5167			Latitude	3280321
Pump Type	: TANIRA				

Repairing Works
- Shock arbsorber
- Sleeve bearing
- Pump stand socket head
- Hexagon screw
- Pedastal
- Inspection pipe

Response and Situation of Village

The villagers were very happy

Water Committee or Water User Goup

They have water committee they meet but not often

Reserve Found

Open account at Bank (NMB) each household contributes money 600/= per six month

Result and Remarks

Repairing works were completed very well
23 – 27 L/min

H.31 Inspection sheet S/N.31

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	31	Date	03 / 09 / 2010
District	: SIKONGE		
Ward	: KILOLELI	(No. 4)	
Village	: MTAKUJA	(No. 19)	
Sub-village	: MTAKUJA	(No. 73 Location :	
Coordinate	: Longitude	Latitude	
Pump Type	: TANIRA		

Repairing Works

Shock absorber
Sleeve bearing
Hexagon screw 4
Nuts 4
Inspection pipe.

Response and Situation of Village

The villagers are happy that the handpum now is working proper.

Water Committee or Water User Goup

Water committee total 10, 5 men and 5 women

Reserve Found

World Bank (the village has contributed 5% for water project (Tshs. 4,500,000/=)
Contribution per Household Tshs. 1000/= per year (NMB ACCOUNT)

Result and Remarks

Pump working good after replacing new spare parts

H.32 Inspection sheet S/N.32

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	32	Date	/ / 2010
District	: SIKONGE		
Ward	: KILOLI	(No. 5)	
Village	: MWITIKIO	(No.21)	
Sub-village	: MWITIKIO	(No. 79) Location	: KWA MUSA
Coordinate	: Longitude 506.83326	Latitude	33.36208
Pump Type	: TANIRA		

Repairing Works

Sleeve bearing, 4 hexagon screws
pluncher bottome valve
1 plunger ring valve limites
i bottom value body and 4 nuts.

Inspection pipe

Response and Situation of Village

Many people turned up on the repairing of their handpum.

Water Committee or Water User Goup

Reserve Found

the village contribution for work bank water account 5% which is 5.000.000/= (Jimbo fund 250,000/=)
each person contributes Tshs. 5,000/=. The fund can be used for repair of their handpump

Result and Remarks

Happy to get water again

H.33 Inspection sheet S/N.33

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region・

<< INSPECTION SHEET >>

S/No. 33 Date 10 / 10 / 2010

District	: TABORA RURAL			
Ward	: MABAMA		(No. 11)	
Village	: MASWANYA		(No. 70)	
Sub-village	: MASWANYA MASHARIKI	(No. 306	Location	: SHULENI
Coordinate	: Longitude 5.06497		Latitude	32.49199
Pump Type	: AFRIDEV			

Repairing Works

Pulling out the handpump
Repairing of the damaged apron
Removal of damaged/wornout
Relplacement of new spare parts
Pump rod 1 pc
Fulcram pin 1 pc
Bearing bush 2 pcs
Foot valve 1 pc
O. Ring 1 pc
U-seal 1 pc

Measurements: well depth 4.4m, water level 1.1m, pump position 3.0m

Response and Situation of Village

The villagers are very happy after their handpump takin out enough water

Water Committee or Water User Goup

They have a water committee of 8 people, 4 men and 4 women.

Reserve Found

They have money, but not in the Bank. They will call a meeting to contribute more funds and open bank account for their handpump.

Result and Remarks

Damaged/worn out out spare parts replaced
Damaged apron and well cover repaired
Handpump worked properly and delivered water after repair.

H.34 Inspection sheet S/N.34

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region・

<< INSPECTION SHEET >>

S/No. 34 Date 4 / 10 / 2010

District	: TABORA RURAL			
Ward	: UPUGE		(No. 16)	
Village	: MHOGWE		(No. 103)	
Sub-village	: MHOGWE B	(No. 443)	Location	: MICHAEL PAUL
Coordinate	: Longitude 4.87706		Latitude	33.04004
Pump Type	: AFRIDEV			

Repairing Works

Pull out the handpump , Removed damaged pats , Replacement of new spare parts
Bearing bush 2 sets – 4pcs , Pluncher U-seal – 1 pc , Bolts & nuts – 2 pcs
O-Ring – 1 pc , Foot valve Assembly
Measurements:
Well depth – 55m, water level 3m, pump position 25m

Response and Situation of Village

People of the village are very happy getting water

Water Committee or Water User Goup

No water committee only leader of the village

Reserve Found

No water funds for the time being

Result and Remarks

Enough water is coming out
The colour of the water is not clear
The district water office must visit the villagers to discuss about opeing account for the handpump
Operation and maintenance

H.35 Inspection sheet S/N.35

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region·

<< INSPECTION SHEET >>

S/No.	35			Date 4 / 10 / 2010	
District	: TABORA URBAN				
Ward	: NDEVELWA			(No. 6)	
Village	: INALA			(No. 18)	
Sub-village	: IBASA		(No. 76)	Location	: RAMADHAN
Coordinate	: Longitude	5.12018		Latitude	32.95778
Pump Type	: AFRIDEV				

Repairing Works
- Pull out the handpump
- Removal of damaged spare parts
- Repairing the Apron
- Replacement fo the new spare parts , Fulcrum pin 1 pc , Bearing bush 2 pcs
- O-Ring 1 pc , Foot valve 1 pc , U-seal 1 pc
- Measurements: well depth - 4.40m, water level 1.10m and pump position 3.0m

Response and Situation of Village

The village are happy, that their hand pump now is working again

Water Committee or Water User Goup

No water committee but they will call a meeting to select or form water committee

Reserve Found

Then to contribute money to open the bank account for water for operations and maintenance

Result and Remarks

Enough water coming out after repairing the handpump.
They now know to pull out the pump, repair the damaged parts and fix it again.

H.36 Inspection sheet S/N.36

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region·

<< INSPECTION SHEET >>

S/No.	36			Date 02 / 10 / 2010	
District	: URAMBO				
Ward	: KALIUA			(No. 5)	
Village	: ULINDWANONI			(No. 20)	
Sub-village	: MTAPENDA		(No. 77)	Location	: ALLY KAYUNGILO
Coordinate	: Longitude	5.04		Latitude	31.70269
Pump Type	: AFRIDEV				

Repairing Works
- Pull out the hand pump
- Removed the damaged spare parts
- Replacement of new spare parts
- - handle pump assembly 1 pc
- - flapper ruber 1 pc
- - cup u seal 1 pc
- Measurement: well depth 20m , water level 8m , pump position

Response and Situation of Village

Village is very happy after their handpump produce enough water

Water Committee or Water User Goup

No water committee

Reserve Found

No water account

Result and Remarks
- The hand pump now is in good condition.
- Enough water is coming out
- Need district water office to visit the people there in order to form water committee and open water account.

H.37 Inspection sheet S/N.37

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	37	Date / / 2010	
District	: URAMBO		
Ward	: KASHISHI	(No. 7)	
Village	: ILEGE	(No. 29)	
Sub-village	: SINDENI	(No. 111) Location	: JUAKALI LUHAGA
Coordinate	: Longitude 4.44475	Latitude	32.28248
Pump Type	: AFRIDEV		

Repairing Works
- Pull out the hand pump
- Removal damaged spare parts
- Replacement fo new spare parts
- – bearing bush 4 pcs
- – Raiser main 4 pcs of 3.0m
- – Raiser socket 1 pc
- – Rod centralizer 3 pcs
- Measurements: well depth 41.0m , water level 1.50m , pump position 25.0 m

Response and Situation of Village

People of the village are very happy after repairing their handpump

Water Committee or Water User Goup

They have a water committee of 6 people 3men and 3 women

Reserve Found

No water fund, but they intends to meet and discuss how they can contribute and open the water account

Result and Remarks
- The pump is producing enough water
- The committee know how to pull out the pump and fix it again

H.38 Inspection sheet S/N.38

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	38	Date 02 / 10 / 2010	
District	: URAMBO		
Ward	: KAZAROHO	(No. 8)	
Village	: KAZAROHO	(No. 41)	
Sub-village	: KAZAROHO	(No. 167 Location	KASWELE
Coordinate	: Longitude 4.9892	Latitude	31.85708
Pump Type	: AFRIDEV		

Repairing Works
- Pull out the handpump
- Removal damaged spareparts
- Replacement fo new spare parts
- – Bearing bush 4 pcs
- – Rod centralizer 7 pcs
- – Flapper rubber 1 pc
- – U seal 1 pc
- – O Ring 1 pc

Measurements: well depth 65m, water level 25m, pump position 49m

Response and Situation of Village

The villagers are very happy with their handpump

Water Committee or Water User Goup

They have a water committee 6 pople, 3 men and 3 women

Reserve Found

They have water accoun in bank of Tshs. 80000/– intends to contribute up to Tshs. 350,00/=

Result and Remarks
- After repairing their handpump, enough water is coming out.
- District should or must visit the users time to time to discuss to increase water funds for the hand pump

H.39 Inspection sheet S/N.39

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	39	Date 01 / 10 / 2010	
District	: URAMBO		
Ward	: MUUNGANO	(No. 10)	
Village	: KALEMELA A	(No. 50)	
Sub-village	: MAGHARIBI A	(No. 204) Location	: GEORGE
Coordinate	: Longitude 4.99157	Latitude	32.03999
Pump Type	: AFRIDEV		

Repairing Works

Handle pump assembly 1 pc, Raiser ro 3m 1 pc, bearing bush 4 pcs
Raising main 3m 1pc , Rod 3m 1 pc , O ring 1 pc
U seal 1 pc , Bearing Bush 4 pcs , Raising main socket 1 pc

Measurment; well depth , water level , pump position

Response and Situation of Village

The people of the village were very happy woth their handpump after repairing

Water Committee or Water User Goup

They have a water committee of 10 people 5 women and 5 men

Reserve Found

Have a bank account of Tshs. 300,000/^

Result and Remarks

After repairing the handpump started to produce enough water.
When we visited the handpump for inspection, we found the pump was no working. And told us that they tried to repair it but no water was coming out.
We open and pull out the rods found in the piston valve U seal was turned upside down.
Fixed again then when pumping the water started coming out again.

H.40 Inspection sheet S/N.40

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	40	Date 01 / 10 / 2010	
District	: URAMBO		
Ward	: MUUNGANO	(No. 10)	
Village	: MUUNGANO	(No. 52)	
Sub-village	: MTUKULA	(No. 215) Location	: SHABANI NASORO
Coordinate	: Longitude 5.0112	Latitude	32.15071
Pump Type	: AFRIDEV		

Repairing Works

Pull out the handpump
Removal of the damaged spare parts
Fixing the new spare parts
- Bearing bush 4 pcs , U seal 1 pc , O ring 1 pc , Plunger assembly
- Bolts and nuts 3 pcs , Flapper rubber 1 pc

Measurment of well depth;
- well depth 45.0m, water level 3.0m, pump position 33.0m

Response and Situation of Village

The people were very happy after repairing their hand pump

Water Committee or Water User Goup

The water committee of 10 people 5 women and 5 men

Reserve Found

They dont have a water account, but intends to call a meeting chaired by the VEO to discuss and contribute money to open the water account

Result and Remarks

Found enough water coming out, but they need more training on the cleanness of their well.
Some were washing clothes near the well

H.41 Inspection sheet S/N.41

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No. 41 Date 01 / 10 / 2010

District	: URAMBO		
Ward	: MUUNGANO	(No. 10)	
Village	: MUUNGANO	(No. 52)	
Sub-village	: MTAKUJA B	(No. 214) Location	: MTONI VILALI
Coordinate	: Longitude 5.02764	Latitude	32.15096
Pump Type	: AFRIDEV		

Repairing Works

Pull out the handpump , remove the damaged parts
Fix new spare parts , Bearing bush – 4 pcs
U seal 1 pc , O ring 1 pc , Foot valve 1 pc
Measurements:
well depth 46.0m
water level 12.0m
pump position 28.0m

Response and Situation of Village

People of the village are very happy after repairing the handpump and enough water was coming out

Water Committee or Water User Goup

There is water committee of 10 people 5 women and 5 men

Reserve Found

They dont have a water accounts, but intends to meet and discuss, contribute and open water account.
The meeting will be chair by VEO

Result and Remarks

Enough water was coming out
Need more training on the maintenance of their handpump

H.42 Inspection sheet S/N.42

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No. 42 Date 01 / 10 / 2010

District	: URAMBO		
Ward	: SONGAMBELE	(No. 12)	
Village	: UYOGO	(No. 63)	
Sub-village	: UYOGO	(No. 268 Location	: MZEE MBOGO
Coordinate	: Longitude 4.91117	Latitude	32.03369
Pump Type	: AFRIDEV		

Repairing Works

Pull out the handpump
Removed damaged parts
Deepening and clean the well
Replacement of new spare parts
- bearing bush 8 pcs , flapper rubber 1 pc , O ring 1 pc
- U seal 1pc , rope 20m

Measurment:
- Well depth 8.5m, water level 5.0m, pump position 8.0m

Response and Situation of Village

The people of that village are very happy with their handpump

Water Committee or Water User Goup

They have water committee of 6 people 3 women and 3 men.

Reserve Found

They dont have a water account, but intends to open bank account after meeting and contribute.

Result and Remarks

Enough water coming out, need more training in pump maintenance and cleanliness fo their well.

H.43 Inspection sheet S/N.43

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	43			Date 02 / 10 / 2010	
District	: URAMBO				
Ward	: UGUNGA			(No. 13)	
Village	: TUOMBE MUNGU			(No. 65)	
Sub-village	: KUSINI		(No. 275)	Location	: SHULENI
Coordinate	: Longitude	5.09016		Latitude	31.70812
Pump Type	: AFRIDEV				

Repairing Works
- Pull out the handpum,
- Removed damaged parts
- Replacement of new spare parts
  - Pump handle 1 pc , bearing bush 4 pcs , Rod centrolizer 3 pcs
  - O ring 1 pc , Cup U Seal 1 pc , Flaaper rubber 1 pc
- Measurements:
- well depth 45m, water level 9.0m, pump position 28m

Response and Situation of Village
- The people are very happy with their hand pump.
- They didnt know how they can get spare parts

Water Committee or Water User Goup
- They have a water committee of 8 people 4 women and 4 men

Reserve Found

- No water account

Result and Remarks
- Enough water is coming out of the handpump
- The district water department should go there to discuss the issue of contributing funds to open bank account for water

H.44 Inspection sheet S/N.44

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region

<< INSPECTION SHEET >>

S/No.	44			Date 03 / 10 / 2010	
District	: URAMBO				
Ward	: USINGE			(No. 18)	
Village	: KOMBE			(No. 86)	
Sub-village	: KOMBE		(No. 367)	Location	: WAMBAO
Coordinate	: Longitude	5.05879		Latitude	31.94194
Pump Type	: AFRIDEV				

Repairing Works
- Pull out the handpump
- Removed damaged spare parts
- Replacement of new spare parts
  - cup u seal 2 pcs
  - bearing bush 4 pcs
  - flapper rubber 1 pc
  - cylinder pipe 1 pc
- Measurements;
  - well depth 31m, water leve 5m and pump position 25m

Response and Situation of Village

- People are very happy to get water again

Water Committee or Water User Goup
- The water committee of 8 people 4 women and 4 men

Reserve Found

- No water account

Result and Remarks
- After repairing the handpump, enough water is coming out of the pump
- They want to call a meeting to discuss the issue of opening water account

H.45 Inspection sheet S/N.45

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	45			Date 03 / 10 / 2010	
District	: URAMBO				
Ward	: USINGE			(No. 18)	
Village	: USINGE			(No. 90)	
Sub-village	: MAJENGO	(No. 382	Location	: H. MUSTAPHA	
Coordinate	: Longitude 5.0965		Latitude	31.30965	
Pump Type	: TANIRA				

Repairing Works
- Pull out the handpump
- Repairing well and apron
- Replacement of new spare parts
  - Shock absorber 1 pc , Sleeve bearing 1 pc
  - Pluncher ring 1 pc , cylinder complete 1 pc
- Measurements:
  - well depth 7.6m
  - water level 3m
  - pump position 6m

Response and Situation of Village

The people are very happy with their pump

Water Committee or Water User Goup

No water committee

Reserve Found

No water funds

Result and Remarks
- After repairing enough water is coming out of the handpump.
- They want to call a meeting to discuss opeing water account

H.46 Inspection sheet S/N.46

Hand pump Repairing underThe Study on Rural Water Supply in Tabora Region･

<< INSPECTION SHEET >>

S/No.	46			Date 03 / 10 / 2010	
District	: URAMBO				
Ward	: USINGE			(No. 18)	
Village	: USINGE			(No. 90)	
Sub-village	: USINGE	(No. 390	Location	: SHULENI	
Coordinate	: Longitude 5.09286		Latitude	31.30639	
Pump Type	: TANIRA				

Repairing Works
- Construction of the apron
- Pull out the handpump
- Replacement of new spare parts
  - shock absorber 1 pc
  - sleeve bearing 1 pc
- Measurements:
  - well depth 7.10m
  - water level 4.0m
  - pump position 6.0 m

Response and Situation of Village

The people of the village wer very happy after their handpump started working again

Water Committee or Water User Goup

No water committee

Reserve Found

No water fund

Result and Remarks
- Enough water is coming out of the handpump after repairing
- They want to meet to discuss about opeing the water account for their handpump