

1) EXISTING COMMUNITY WATER SUPPLY SHALLOW WELLS

WELL DESCRIPTION	LAND OWNER	COORDINATES	PERPENDICULAR DISTANCE OF WELLS FROM TUNNELL CENTERLINE (m)	WELL DEPTH (m)	BASELINE WATER DEPTH MEASURED FROM SURFACE (m) - OCT 2015	DATE OF MEASUREMENT AND WATER DEPTH MEASURED FROM SURFACE (m)										Remarks
						20/09/16	27/09/16	04/10/16	11/10/16	18/10/16	25/10/16	01/11/16	08/11/16	15/11/16	22/11/16	
BH 1	USAC Kenyanu	04° 27' 09" S, 36° 50' 15" E	8.3	24.50	20.50	20.30	20.80	20.68	20.55	20.47	20.41	20.53	20.00	20.95	The fluctuation in water level can be attributed to the dry season prevailing at the time of measurement. The borehole is located about 170 meters from the closest location of tunnel excavation.	
BH 2	Makumbi Shek Sh	04° 27' 51" S, 36° 50' 20.33E	133	26.50	16.50	16.35	16.33	16.50	16.43	16.50	16.60	16.70	16.80	16.97	The fluctuation in water level can be attributed to the dry season prevailing at the time of measurement. The borehole is located about 150 meters from the closest location of tunnel excavation.	
BH 3	Idon Githoa	04° 27' 51" S, 36° 50' 12.83E	121.5	17.50	16.00	16.10	16.30	16.53	16.52	16.15	16.00	16.10	14.90	15.13	The fluctuation in water level can be attributed to the dry season prevailing at the time of measurement and also the fact that the well is in isolation from tunnel excavation.	
BH 4	Makumbi Kenyu	04° 27' 17" S, 36° 50' 21.68E	79.8	23.00	16.00	16.11	16.34	16.68	16.70	16.34	16.42	16.67	16.76	16.95	The fluctuation in water level can be attributed to the dry season prevailing at the time of measurement and also the fact that the well is in isolation from tunnel excavation.	
BH 5	Pfup Waweru	04° 27' 20" S, 36° 50' 21.37E	84.4	25.00	16.00	16.16	16.20	16.35	16.32	16.32	16.38	16.38	16.51	16.52	The borehole is located about 1500 meters from the closest location of tunnel excavation.	
BH 6	Jane Njeri	04° 27' 15" S, 36° 50' 17.68E	43.6	20.50	16.50	17.30	17.64	16.92	16.36	17.75	17.83	17.92	17.00	17.22	The borehole is located about 1620 meters from the closest location of tunnel excavation.	
BH 7	Mary Wanjira Thiku	04° 27' 08" S, 36° 50' 22.48E	84.3	34.50	25.00	24.20	24.13	24.31	24.22	24.95	25.42	26.85	28.42	32.33	The fluctuation in water level can be attributed to the dry season prevailing at the time of measurement and also the fact that the well is in isolation from tunnel excavation.	
BH 8	Ahso Wanjira Kenda	04° 26' 50" S, 36° 50' 01.48E	13.8	24.50	23.00	23.92	23.49	23.63	23.66	23.67	23.73	23.75	23.63	23.63	The borehole is located about 750 meters from the closest location of tunnel excavation.	
BH 9	Idon Kenia Njogwe	04° 27' 18" S, 36° 50' 28.32E	44.1	21.30	14.70	15.30	15.30	14.82	15.92	15.17	15.10	15.10	14.86	15.10	The borehole is located about 750 meters from the closest location of tunnel excavation.	

2) NEW GROUND WATER OBSERVATION BOREHOLES

BOREHOLE DESCRIPTION	LOCATION	COORDINATES	PERPENDICULAR DISTANCE OF BOREHOLES FROM TUNNELL CENTERLINE (m)	BOREHOLE DEPTH (m)	DATE OF MEASUREMENT AND WATER DEPTH MEASURED FROM SURFACE (m)										Remarks
					04/10/16	11/10/16	18/09/16	25/09/16	01/11/16	08/11/16	15/11/16	22/11/16	29/11/16		
BH 1	Neki Makumbi Pk. Sh	06° 12' 01", 29° 19' 13"	108.5	30	19.76	19.53	19.70	19.74	19.14	19.10	19.13				Fresh measurement taken one week upon completion of drilling and installation of the abstraction accretor.
BH 2	Neki Makumbi Kani	06° 12' 00", 29° 19' 13"	36	30	17.27	17.26	17.41	17.28	16.90	16.93	16.88				Fresh measurement taken one week upon completion of drilling and installation of the abstraction accretor.
BH 3	Neki Makumbi Wanjira Thiku	06° 12' 39", 29° 19' 49"	79	35					21.45	20.18	20.29	20.66			Fresh measurement taken one week upon completion of drilling and installation of the abstraction accretor.
BH 4	Kenani Junction	06° 14' 49", 29° 06' 24"	108	30				14.80	15.60	14.65	14.79				Fresh measurement taken one week upon completion of drilling and installation of the abstraction accretor.
BH 5	Kenani Forest	06° 17' 17", 29° 07' 24"		26							14.28				Fresh measurement taken one week upon completion of drilling and installation of the abstraction accretor.
BH 6	Open Kibiti Sec. Sh	06° 22' 14", 29° 01' 13"		40											Fresh measurement taken one week upon completion of drilling and installation of the abstraction accretor.

Legend:

- BH Existing community water supply shallow
- MW New ground water observation boreholes
- AVS8 Baseline Survey of Wells and Boreholes along the NCT1 Corridor (October 2015)