

a	b	c	d	e	f	g	h	i
2						National Water Master Plan		
3			URBAN WATER SUPPLY					Feb-92
4	Code No.	920	U- 158			Rate		25.2
5	-----							
6	Name of Urban:		Nambale		LGL Notice No:			
7	Organization:							
8	Per Capita GRDP in 1988 (guess):							
9	District:		Busia	Locataion :	922.2		Central Bukhayo	
10	Map (1/50,000) :		101/2	Coordinates X:		34°16'	Y:	N 00°28'
11	Sub-basin Code:		1AH	Elevation (El. m):				
12	-----							
13	Existing Facilities							
14	Raw Water Source:		Boreholes			River No		
15	Raw Water System:		H (m)=	L (m)=				
16	Treatment:			Capacity (m3/d)		154		
17	Distribution System:							
18	-----							
19					1990	2000	2010	
20	-----							
21	Projected Population			(no)	2,100	5,300	8,100	
22	Residential Demand			(m3/d)	260	671	1,048	
23	Non-residential Demand			(m3/d)	44	109	167	
24	Livestock Demand			(m3/d)	4	11	18	
25	Industrial Demand			(m3/d)	0	0	0	
26	Total Demand			(m3/d)	308	791	1,233	
27	Area Served (estimated net)			(ha)	16	40	60	
28	-----							
29	Future Development Plan							
30	Raw Water Source:		Sio river			River No:		
31	Raw Water System:		H (m)=	40 L (m)=		700		
32	Treatment:							
33	Distribution System:							
34	-----							
35	Incremental Capital Cost				1990	2000	2010	Total
36	Incremental Capacity			(m3/d)	154.1	483.0	441.8	1,078.9
37	Source Works			(US\$'000)	2.6	6.1	5.7	14.5
38	Pump Cost			(US\$'000)	1.5	1.8	1.8	5.1
39	Raw Water Main			(US\$'000)	26.5	29.7	29.4	85.7
40	Treatment			(US\$'000)	142.8	282.6	268.3	693.7
41	Storage			(US\$'000)	23.6	48.4	45.9	117.9
42	Distribution			(US\$'000)	125.5	191.2	167.3	483.9
43	Miscellaneous (20%)			(US\$'000)	64.5	112.0	103.7	280.2
44	Admi. & Engineering			(US\$'000)	38.7	67.2	62.2	168.1
45	Contingency			(US\$'000)	85.1	147.8	136.9	369.8
46	Total Cost			(US\$'000)	510.9	886.8	821.2	2,218.9
47	Cost per Capita			(US\$/c)	243.3	277.1	293.3	
48	Cost per ha			(US\$/ha)	32,574.2	37,109.9	39,273.1	
49	Cost per m3			(US\$/m3)	3.3	1.8	1.9	2.1
50	-----							
51	Present Value of Water at DF=10 %				1990	2000	2010	Total
52	Direct O & M Costs			(US\$'000)	25.5	44.3	41.1	
53	Capital Costs			(US\$'000)	52.6	91.3	84.6	
54	Total Annual Cost			(US\$'000)	78.2	135.7	125.6	
55	Unit Cost per m3			(US\$/m3)	1.4	0.8	0.8	
56	-----							
57	Remarks:							
58								
59								
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63	-----							



