Table 3C-2 Node Data (1/10)

1 ani	le 3C-2	Node	Data	(,	1/10)				
NO	Node No.	Head at Source, m	Nodal Demand, m³/s	Ground Elevation, m	X Coordinate	Y Coordinate	Total Head, m	Effective Head, m	Supply at Source (m <sup>3</sup> /s)
2	N3		0.00086	3.0	3196.5	2637.2	28.49	25,5	
3	N4		0.00105	4.0	3095.5	2570.6	28.54	24.5	
4	N5		0.00000	3.0	3175.9	2545.3	28.49	25.5	
5	N6		0.00000	8.0	3219.0	4117.3	38.34	30.3	
6	N10		0.00000	20.0	3212.5	3754.4	37.91	17.9	
7	N12		0.00000	5.0	3148.0	1331.1	28,11	23.1	
8	N13		0.00000	5.0	3208.0	1342.8	28.14	23,1	
9	N14		0.00000	10.0	3107.0	2204.6	29.56	19.6	
10	N15		0.00000	10.0	3228.0	2218.6	29.41	19.4	
11	N17		0.00000	15.0	3124.2	2793.6	37.65	22.7	
12	N18		0.00000	15.0	3127.4	2775.5	37.51	22.5	···
13	N22		0.00314	7.1	3194.7	3514.6	40.02	32.9	
14	N23		0.00000	22.0	3093.9	3549.7	40.64	18.6	
15	N24		0.00000	5.0	3229.7	2234.6	29.39	24.4	
16	N26		0.00000	5.0	3246.7	2369.2	28.90	23.9	
17	N27	- · ·	0.00000	5.0	3165.8	2361,5	27.61	22.6	
18	N29	–	0.00000	15,0	3136.5	2133.8	29.65	14.7	
19	N33		0.00000	5,0	2415.8	2507.1	24.74	19.7	
20	N34		0.00000	5.0	1181.3	2598.3	30.80	25.8	
21	N35		0.00000	5.0	1199.6	2488.3	29.83	24.8	
22	N36		0.00000	5.0	1814.0	2581.3	27.73	22.7	
	N37		0.00000	5.0	1826.2	2518.3	28.72	23.7	
23		<del></del>		4.0	2813.3	2581.9	27.36	23.4	
24	N38	<u> </u>	0.00107	4.0	2813.3	2490.4	26.85	22.9	
25	N39		0.00225	7.0	1528.2	2837.5	39.73	32.7	
26_	N41	<u> </u>	0.00000	<del></del>	+		34.93		
27	N44	L	0.00000	5.0	1586,5	2993.6	<b></b>	29.9	
28	N45	<b></b>	0.00000	5.0	1559.7	3057.8	34.90	29.9	<b>_</b>
29	N46	<u> </u>	0.00000	7.0	1493.6	2899.1	38.61	31.6	
30	N47		0.00000	7.0	1619.2	2887.3	35.21	28.2	
31	N50		0.00000	7.0	1546.4	2814.4	35.34	28.3	
32	N53		0.00000	15.0	1557.0	3821.1	28.81	13.8	
33	N54		0.00000	15.0	1640.0	3678.4	28.81	13.8	
34	N55		0.00000	10.0	1537.7	2615.1	32.44	22.4	
35	N56	ļ	0.00000	10.0	1639.6	2598.1	32.04	22.0	
36	N59		0.00000	7,0	1565.7	2857.5	35.28	28.3	
37	N63		0.00112	5.9	1054.3	4220.9	28.67	22.8	
38	N65		0.00000	15.0	1242.5	3896.0	28.79	13.8	L
39	N69	T	0.00000	15.0	1367.5	3941.3	28.77	13.8	<u> </u>
40	N70		0.00000	15.0	1322.9	3978.5	28.76	13.8	L
41	N76		0.00000	15.0	1308.0	3845.7	28.77	13.8	
42	N77	[	0.00000	15.0	1349.0	3613.8	28.88	13.9	
43	N81	1	0.00000	7.0	1472.0	2863.9	39.73	32.7	
44	N82	T	0.00000	15.0	1051.9	3058.9	39.73	24.7	
45	N86		0.00868	6.6	1532.8	2809.6	35.30	28.7	
46	N87	<del>                                     </del>	0.00000	7.0	1501.0	2826.4	34.99	28.0	
47	N90	<del> </del>	0.00000	5.0	1316.7	2839.4	33.39	28.4	
48	N94	1	0.00000	5.0	1197.0	2720.2	31.89	26.9	
49	N96		0.00000	10.0	+	2711.7	32.82	22.8	
50	N97	†	0.00000	10.0		2734.0	33.58	23.6	
51	N98	1	0.00528	23.0		3599.2	41.34	18.4	
52	N100	1	0.00000	18.0		3469.4	40.41	22.4	1
53	N101	<del></del>	0.00000	24.0		3581.7	41.25	17.2	1
54	N102	<del> </del>	0.00858	7.5		3531.5	30.14	22.6	<del>                                     </del>
55	N102	+	0.00000	12.0	<del></del>	3540.5	33.86	21,9	1
<u> </u>	N107	<del> </del>	0.00280	12.0		3594.5	32.75	20.7	<del> </del>
56	<del></del>		0.00000	12.0		3556.0	34.88	22.9	<del>                                     </del>
57	N108	+ .	0.00000			3570.7	41.01	18,0	
58	N110	+	- <del></del>	23.0		3591.4	41.20	19.2	1
59	N112	+	0.00000	22.0			39.52	24.5	+
60	N113	<del></del>	0.00214	15.0		4105.9	-1)		
61	N115	1	0.00000	15.0		4197.8	39.76	24.8	1
62	N116		0.00000	14.0		4232.2	39.44	25.4	
63	N117		0.00000	10.0		4512.6	39.01	29.0	<del> </del>
64	N119		0.00000	10.0		3794.4	32.35	22.4	· · · · · · · · · · · · · · · · · · ·
65	N121	<b></b>	0.00000	10.		3783.5	32.13	22.1	4
66	N123	<u> </u>	0.00000	10.		3729.3	32.13	22.1	ļ
67	N125		0.00000	10.	<del></del>	3740.7	33.40	23.4	1
68	N128		0.00481	2.4	2114.8	4110.5	32,13	29.8	<u> </u>
69	N130	T	0.00262	3.0	5 2031.3	4008.9	29.99	26.4	
<u> </u>	N131	T -	0.00000	3.	0 2251.0	4363.4	39.27	36.3	L.,
70			· rependence in the control of the	<b>—</b>					
71			0.00426	2	3 2168.4	4471.3	39.15	36.8	1

Tab	le 3C-2	! Node	Data	()	2/10)				
NO	Node No.	Head at Source, m	Nodal Demand, m³/s	Ground Elevation, m	X Coordinate	Y Coordinate	Total Head, m	Effective Head, m	Supply at Source (m³/s)
73	N137		0.00293	2.6	2227.3	4275.8	39.35	36.8	
74	N140		0.00000	12.0	2019.2	3993.2	29.40	17,4	
75	N142		0.00426	14.2	1982.2	3868.0	29.48	15.3	
76	N143		0.00000	16.0	1786.9	3828.0	29.06	13.1	<b></b>
77 78	N144 N147		0.00000	15.0 15.0	1747.8 1822.1	3928.0 4033.7	28.95 29.13	14.0	<del>                                     </del>
79	N148		0.00000	15.0	1653.0	3947.9	28.87	13.9	
80	N153		0.00322	14.2	1633.6	3921.4	28.83	14.6	
81	N156		0.00000	15.0	1799.6	3758.9	29.04	14.0	
82	N159		0.00000	15.0	1733.6	3629.0	28.99	14.0	
83	N162		0.00000	10.0	2322.4	3855.7	32.13	22.1	
84	N163		0.00000	10.0	2337,4	3858.0	32.35	22.4	
85	N164		0.00000	10.0	2108.3	3957.0	30.25	20.2	
_86	N166		0.00000	10.0	2297,3	3722.5	31.09	21.1	
87	N167		0.00565	10.0	2310.4	3642.2	31.32	21.3	
88	N168		0.00858	4.4	2366.9	3653.1	32.13	27.7	<del></del>
89 90	N170		0.00429 0.00505	12.0	2860.9	4218.4	38.80	26.8	<del></del>
91	N171 N172		0.00000	10.0	2563.2 3044.5	4404.7 4112.7	38.90 38.55	28.9 28.5	<del>                                     </del>
92	N174		0.00000	25.0	2790.7	3941.8	40.26	15.3	
93	N175		0.00000	25.0	2775.5	3985.2	40.35	15.3	<del> </del>
94	N176		0.00000	25.0	2723.3	3907.0	40.12	15.1	<del></del>
95	N177	·· <del>-</del> l	0.00293	22.0	2758.8	3692.2	41.24	19.2	
96	N179		0.00379	25.0	2680.9	3842.0	39.82	14.8	r
97	N181		0.00000	20.0	2580.8	3984.3	40.33	20.3	
98	N183		0.00293	25.0	2642.2	3909.5	40.63	15.6	
99	N185		0.00000	25.0	2681.D	3878.8	40.25	15.3	
100	N186		0.00000	25.0	2612.1	3896.9	40.63	15.6	
101	N187		0.00000	25.0	2729.8	3887.5	40.08	15.1	
102	N188		0.00000	25.0	2755.9	3900.5	40.03	15.0	
103	N189		0.00000	25.0	2764.6	3883.2	39,99	15.0	<del> </del>
104	N192		0.00000	20.0	2589.3	3806.1	32.35	12.4	<del> </del>
105 106	N193 N194		0.00000	20.0	2605,1 2615.9	3790.3 3700.7	32.13 32.13	12.1	<del></del>
107	N194 N195		0.00000	20.0	2635.2	3807.7	32.13	12,1	<b></b>
108	N196		0.00000	17.0	3033,4	3788.9	37.95	21.0	
109	N198		0,00000	10.0	3049.5	3984.0	38.00	28.0	
110	N199		0.00225	15.0	2901.7	3728.4	40.27	25.3	
111	N200		0.00000	22.0	2979.6	3664.5	40,27	18.3	
112	N201		0.00000	22.0	2876,4	3707.3	40.29	18.3	
113	N202		0.00000	22.0	2917.4	3623.5	40.29	18.3	
114	N205		0.00000	20.0	2452.3	3052.0	40.20	20.2	
115	N207		0.00000	20.0	2439.0	3062.7	38.72	18.7	
116	N209		0.00000	20.0	2410.1	3111.0	38.84	18.8	
117	N211		0.00000	20.0	2360.1	3136.5	38.81	18.8	
118	N212		0.00000	15.0	2385.0	3520.1	34.81	19.8	<del> </del>
119	N213		0.00000	15.0	2392.2 1654.2	3533.8	37.15	22.1	
120	N214 N215		0.00000	5.0 5.0	1738.4	3131.0 3029.4	34.84 34.79	29.8 29.8	
122	N215 N216		0.00000	5.0	1815.7	3067.5	34.40	29.4	<del> </del>
123	N217		0.00000	5.0	1800.8	3038.3	34.60	29.6	<del> </del>
124	N219		0.00000	15.0	2204.4	3058.5	38.81	23.8	
125	N221		0.00000	10.0	2081.6	3055.4	38.79	28.8	
126	N222		0.00078	5.0	2026.1	3142.3	38.78	33.8	
127	N225		0.00000	5.0	1971.2	3216.4	38.78	33.8	
128	N226		0.00000	5.0	1763.5	3225.6	34.19	29.2	
129	N228		0.00000	5.0	1763.5	3122.2	34.31	29.3	
130	N230		0.00000	5.0	1953.0	3231.7	33.84	28.8	ļ
131	N232		0.00000	5.0	1840.2	3279.1	34.00	29.0	<u> </u>
132	N234		0.00000	5.0	1854.4	3207.8	34.08	29.1	<del> </del>
133	N240		0.00000	5.0	2035.8	3335.7	32.93	27.9	<del> </del>
134	N241		0.00000	10.0 5.0	2250.2	3436.5 3407.2	33.77 33.77	23.8 28.8	<del> </del> 1
135 136	N242 N243	·	0.00000	10.0	2093.0	3407.2 3500.1	33.77	28.8	<del> </del>
137	N244		0.00000	7.0	2178.5	3475.4	33.77	26.8	<del> </del>
138	N245		0.00000	5.0	2300.1	3355.6	33.46	28.5	<del>                                     </del>
139	N249		0.00000	12.0	2364.1	3494.2	33.77	21.8	<del> </del>
140	N251		0.00065	18.0	2242.4	3185.2	36.90	18.9	
141	N252		0.00000	15.0	2121.1	3124.2	36.90	21.9	
142	N253		0.00209	20.0	2307.4	3161.5	38.79	18.8	[
143	N255		0.00000	18.0	1958.8	2900.5	39.96	22.0	L

Table 3C-2 Node Data (3/10)

Tabl	le 3C-2	Node	: Data	(3	3/10)				
NO	Node No.	Head at Source, m	Nodal Demand, m <sup>3</sup> /s	Ground Elevation, m	X Coordinate	Y Coordinate	Total Head, m	Effective Head, m	Supply at Source (m³/s)
144	N256		0.00000	12.0	1954.1	2621,0	27.39	15.4	
145	N257		0.00000	12.0	2020.7	2617.5	27.06	15.1	
146	N260		0.00000	15.0	1979.7	2799.3	32,74	17.7	
147	N262		0.00000	18.0	1954.6	2915.5	36.69	18.7	
148	N263	L	0.0000	10.0	1757.2	2802.3	39.84	29.8	
149	N265	L	0.00000	7.0	1758.3	2785.1	36.26	29.3	
150	N267	L	0.00387	17.0	1905.9	2875.6	36.44	19.4	
151	N269		0.00000	10.0	1779.6	2906.3	35.53	25.5	
152	N270	Ļ <b>-</b>	0.00000	5.0	1624.3	2965.1	34.95	30.0	
153	N271	<u> </u>	0.00000	7.0	1640.3	2929.5	35.07	28.1	
154	N272	<u></u>	0.00000	17.0	1900.9	2896.9	39.92	22.9	
155	N273	-	0.00000	17.0	1929.0 1797.8	2877.7 2625.6	39.94 27.00	22.9 17.0	
156	N275	<b> </b> -	0.00528	10.0	1743.4	2686.5	28.83	18.8	
157 158	N276 N277	<b></b> -	0.00000	10.0	1743.4	2647.6	29.70	19.7	·
	N277 N280	<del> </del>	0.00000	10.0	1653.5	2668.2	31,77	21.8	
159		<del> </del>	0.00000	12.0	1954.6	2679.7	27.69	15.7	
160	N282	<u> </u>	0.00000	12.5	1857.9	2679.7	27.37	14.9	
161	N285	<del> -</del>		12.5	1857.9	2625.6	27.19	14.7	
162	N286	<b></b>	0.00000	15.0	<del> </del>	2593.1	27.73	12.7	
163	N288	<del> </del>	0.00000	<del> </del>	1960.6 2089.3	2895.1	40.02	20.0	
164	N289	<b>-</b>	0.00000	20.0	<del>+-</del>		<del> </del>	<b></b>	
165	N291	<del> </del> -	0.00000	20.0	2081.0	2911.1	37.19	17.2	
166	N292	<b></b>	0.00000	15.0	2270.6	3032.9	38.84 40.24	23.8	
167	N295		0.00000	20.0	2489.1	3120.4			<u> </u>
168	N296	<del></del>	0.00000	15.0	2554.7	3001.2	38.86	23.9	
169	N297	<u> </u>	0.00884	20.0	2458.6	3090.6	38.86	18.9	
170	N298		0.00115	5.0	2711.5	3059.6	38.52	33.5	
171	N299	<u> </u>	0.00000	5.0	2650.5	3086.3	38.72	33.7	
172	N300	<u> </u>	0.00000	5.0	2708.4	3041.6	0.00	(5.0)	
173	N301	∔	0.00000	5.0		3077.6	0.00	(5.0)	
174	N302	<b></b>	0.00000	10.0		3206.0	39.06	29.1	<b></b>
175	N303		0.00248	10.0	2793.0	3313.2	38.90	28.9	
176	N305		0.00000	20.0		3318.5	40.33	20.3	
177	N306	<b></b>	0.00000	10.0	<del>+</del>	3307.7	39.55	29.5	
178	N307	<del></del>	0.00000	20.0		3332.3	39.95	19.9	
179	N311	<b></b>	0.00000	18.0		3495.4	40.24	22.2	
180	N312	<u> </u>	0.00646	18.5		3468.8	40.63	22.1	
181	N319	<u> </u>	0.00000	18.0	<del></del>	3483.9	40,23	22.2	<del>                                     </del>
182	N320		0.00000	18.0		3508.7	39.84	21.8	
183	N325		0.00000	19.0	<del></del>	3211.4	39.49	20.5	<u> </u>
184	N328		0.00000	19.0		3229.0	39.49	20.5	<del></del> -
185	N331	<del> </del>	0,00000	19.0		3137.5	39.49	20.5	
186			0.00000	10.0		3224.9	39.16		·
187	N334		0.00000	8.0		3127.7	0.00	(8.0)	<del> </del>
188	<del></del> -	<del></del>	0.00000	10.0		3273.3	0.00	(10.0)	<del></del>
189			0.00000	15.0		3399.3	41.18	26.2	<del> </del>
190	·		0.00000	10.0	+	3215.6	41.16	31.2	<del> </del>
191		4	0.00000	5.0	<del></del>	3137.6	41.15	36.2	<del> </del>
192	- <del>- </del>	4	0.00000	10.0	<del></del>	2995.6	0.00	(10.0)	<del></del>
193			0.00000	10.0		2869.9	38,86	28.9	<del> </del>
194	<del></del>	<u> </u>	0.00000	5.0	<del></del>	3023.2	38.41	33.4	<del> </del>
195		<u> </u>	0.00000	5.0		3011.5	0.00	(5.0)	<del> </del>
196			0.00081	5.6		2584.4	24.83	19.8	<del> </del>
197			0.00000	5.0		2649.2	24.75	19.8	<del>                                     </del>
198			0.00502	2.9		2747.4	36.74	33.9	<del> </del>
199			0.00000	10.		2864.1	0.00	(10.0)	+
200		4	0.00000	10.		2772.8		27.9	<del> </del>
201			0.00000	10.	<del></del>	2854.9		28.0	<del> </del>
202			0.00000	10.	·	2957.4		28.1	+
203	<del></del>		0.00000	10.		2969.6		(10.0)	+
204			0.00418	10.4		3005.0		28.1	+
205			0.00050	4.0	<del>-1</del>	3015.9		37.1	<del> </del>
200		-	0.00000	10.		2791.8		27.9	<del> </del>
207			0.00000	4.				24.5	+
208			0.00243	4.		2628.7		24.6	<del></del>
209			0.00000	10.		_ +		27.2	<del> </del>
210			0,00928	2.		562.8	21.34	18.4	<del></del>
21			0.00000		.0 633.2	311.3		15.2	<del></del>
21	2 N375	1	0.00000	3	.0 312.2	497.9	20.44	17.4	1
١								40.1	1
21:	3 N376		0.00000		.0 434.1	519.8 544.7		16.1 16.1	

Table 3C-2 Node Data (4/10)

lab	le 3C-2	Node	Data	(4	4/10)				
NO	Node Nø.	Head at Source, m	Nodal Demand, m <sup>3</sup> /s	Ground Elevation, m	X Coordinate	Y Coordinate	Total Head, m	Effective Head, m	Supply at Source (m³/s)
215	N378		0,00000	5.0	523.9	490.0	21.14	16.1	
216	N381		0.00196	2.0	1614.2	1813.1	20.31	18,3	<del></del>
217	N387		0.00188	2.6	1540.0	2055.8	25.12	22.5	
218	N388		0.00000	2,0	1588.7	1893.2	21.90	19.9	
219	N389		0.00583	3.2	1825.7	2104.5	35.13	31.9	ļ
220	N393		0.00000	5.0	1392.9	1552.2	22.09	17.1	 
221	N394 N395		0.00000	5.0 5.0	1083.6 1115.7	1490.1 1653.0	20.28	15.3 15.3	
223	N396		0.00000	5.0	1097.0	1509.7	22.92	17.9	<del></del>
224	N397		0.00000	5.0	1113.8	1608.7	24.06	19.1	
225	N398		0.00000	7.0	810.2	1605.5	24.27	17.3	
226	N400		0.00000	7.0	798.2	1572.3	23.68	16.7	
227	N402		0.00196	10.0	1486.9	2048.1	23.45	13.4	
228	N404		0.00000	10.0	1081.5	2007.8	23.73	13.7	
229	N407		0.00986	3.1	891.1	2001.3	25.16	22.1	
230	N408		0.00000	10.0	1273.8	2020.2	22.29	12.3	
231	N409 N410		0.00000	10.0	1258.7 1349.9	2123.2 2025.7	22.29	12.3	
233	N411		0.00000	10.0	1000.7	2403.7	27.96	18.0	<del></del>
234	N412		0.00000	10.0	1013.2	2279.1	27.81	17.8	
235	N413		0.00000	10.0	1111.0	2154.3	23.73	13.7	<del></del>
236	N414		0.00000	10.0	1452.2	2145.5	22.95	13.0	
237	N415		0.00052	10.0	1452.2	2336.4	22.04	12.0	
238	N417		0.00000	10.0	1217.0	2176.1	22.29	12.3	
239	N419		0.00000	5.0	1210.3	1652.0	20.28	15.3	
240	N420		0.00209	10.0	860.9	1907,4	24.67	14.7	
241	N422		0.00000	10.0	1113.3	1857.1	23.21	13.2	
242	N423		0.00026 0.00058	10.0 10.0	835.5	2001,3	25.15	15.2 12.6	
243	<b>N424</b> N426		0.00000	7.0	971.2	1955,3 1702,3	22.64 24.29	17.3	
245	N427		0.00403	5.0	848.0	1742.7	24.46	19.5	ļ
246	N428	<del>-</del>	0.00000	10.0	823.6	1753,8	24.49	14.5	<del> </del>
247	N429		0.00000	5.0	1108.7	1715,0	20.28	15.3	
248	N431		0.00000	5.0	1553.2	1789.3	20,68	15.7	
249	N433		0.00105	5.0	1350.1	1785.3	21.83	16.8	
250	N434		0.00000	10.0	1234.5	1930.0	22.12	12.1	
251	N436		0.00000	10.0	1278.2	1956.0	22.12	12.1	
252	N438		0.00285	10.0	1283.6	2020.2	22.22	12,2	}
253	N439		0.00000	10.0	1361.1	1936.4	22.61	12.6	<u> </u>
254 255	N440 N442		0.00000	10.0 10.0	1204.9 1490,1	1824.7 1913.6	22.12	12.1 13.4	
256	N446		0.00000	5.0	1236.8	1739.9	20.28	15.3	<del> </del>
257	N450	<del></del>	0.00000	5.0	1557.7	1679,3	21.15	16.1	ļ <del> </del>
258	N457		0.00000	5.0	981.8	1087.1	21,80	16.8	
259	N458		0.00000	5.0	735.3	1039.8	21,80	16.8	
260	N459		0.00000	5.0	662.5	657.3	22.82	17.8	
261	N462		0.00374	1.5	816.8	1327.2	16.86	15.4	
262	N464		0.00000	5.0	125.2	1022.3	18.83	13.8	
263	N465	Ì	0.00000	5.0	139.8	1139.4	18.70	13.7	<u> </u>
264	N466		0.00000 0.00272	5.0 5.0	631.6	1021.0	21.80	16.8 10.0	<del> </del>
265 266	N467 N471		0.00272	5.0	484.0 305.8	1292.1 1142.8	15.04 15.04	10.0	ļ
267	N472		0.00000	5.0	587.1	1355.1	15.66	10.7	<del></del>
258	N477		0.00332	3.0	298.9	798.2	14.74	11.7	<del> </del>
269	N479		0.00000	5.0	107.8	850.8	19.03	14.0	
270	N482		0.00000	5.0	233.0	1004.8	18.83	13.8	
271	N487		0.00000	5.0	464.2	843.6	18.01	13.0	
272	N488		0.00000	5.0	631.6	1002.5	21.80	16.8	
273	N494		0.00000	5.0	467.5	652.3	21.74	16.7	<u> </u>
274	N497		0.00000	5.0	1230.9	1018.2	23.54	18.5	<u> </u>
275	N499		0,00573	3.4	1351.9	1032.2	23.68	20.3	<del> </del>
276	N500		0.00000	2.9 5.0	981.8 1244.8	994.7 1424.3	23,33 22,75	20.5 17.8	<del> </del>
277	N501 N502		0.00000	5.0	1080.0	1424.3	22.04	17.0	<del> </del>
279	N503		0.00000	5.0	991.5	1261.3	18.89	13.9	<del> </del>
280	N505		0.00405	7.6	977.9	1287.1	17.17	15.6	
281	N506		0.00000	5.0	1057.1	1398.0	19.00	14.0	
282	N507		0.00000	5.0	877.6	1496.7	19.86	14.9	
283	N516		0.00000	5.0	1382.0	1410.3	22,75	17.8	
284	N517		0.00000	5.0	1465.1	1414,7	22.76	17.8	
285	N518		0,00000	5.0	1311.8	1420.9	22.55	17.6	l

Table 3C-2 Node Data (5/10)

NO	Node No.	Head at Source, m	Nodal Demand, m³/s	Ground	5/10) X Coordinate	Y Coordinate	Total Head, m	Effective Head, m	Supply at Source (m³/s)
286	N522		0.00000	5.0	1402.1	1039.4	23.88	18.9	
287	N526		0.00000	5.0	1050.6	1015.6	23.39	18.4	
288	N528		0.00000	5.0	946.8	977.0	23.29	18.3	
289	N530		0.00371	5.0	3008.9	1517.4	27.95	23.0	
290	N531		0.00000	5.0	2622.9	1527.6	29.59	24.6	
291	N532		0.00175	2.7	2654.5	1654.2	31.02	28.4	
292	N533		0.00000	5.0	2356.5	1594.2	25.13	20.1	
293	N534		0.00000	5.0	2310.9	1424.1	24.52	19.5	
294	N535		0.00000	2.0	1871.4	1526.2	21.58	19.6	
295	N537		0.00000	5.0	2389.8	1587.2	25.25	20.2	
296	N538		0.00000	5.0	2343.9	1733.4	25.64	20.6	
297	N541		0.00369	7.5	2282.9	2023.2	25.88	18.4	
298	N543		0.00000	10.0	2361.2	2219.8	25.59	15.6	
299	N544		0.00000	10.0	2462.5	2213.0	25.59	15.6	
300	N546		0.00541	10.0	2335.3	2127.3	25.84	15.8	
301	N547		0.00068	10.0	1908.8	1980.4	30.73	20.7	
302	N551	<u> </u>	0.00000	10.0	1992.0	2129.2	32.01	22.0	
303	N553	<b></b>	0.00000	10.0	1979.8	2287.0	32.00	22.0	
304	N555	<del> </del>	0.00000	12.0	1985.6	2484.2	26.20	14.2	
305	N556	<u> </u>	0.00000	10.0	1802.9	2309.5	31.98	22.0	
	N558	<del> </del>	<del> </del>	10.0	1775.9	2309.5	32.39	22.4	
306 307	<del> </del>	<del> </del>	0.00000	10.0	1818.4	2399.6	30.56	20.6	<del> </del>
307	N559	<del> </del>		<del>                                      </del>	<del></del>		-		
308	N560	<b></b>	0.00000	10.0	1854,3 2343.3	2518.3	28.72	18.7	<u> </u>
309	N564	<u> </u>	0.00000	5.0		2373.2	25.21	20.2	
310	N565	<b></b>	0.00000	5.0	2113.6	2452.6	25.55	20.5	
311	N566	<b></b>	0.00175	5.0	2265.1	2512.4	24.73	19.7	
312	N569		0.00000	5.0	2304.9	2367.7	25.11	20.1	
313	N570		0.00000	10.0	2211.0	2142.3	28.08	18.1	ļ
314	N576		0.00000	5.0	2007.2	1766.4	15.35	10.4	
315	N577		0.00000	2.0	1642.6	1787.4	17.43	15.4	
316	N579	ļ	0.00000	2.0	1764.8	1539.9	19.49	17.5	
317	N580		0.00000	2.0	1696.1	1642.4	15.92	13.9	
318	N581	<u> </u>	0.00390	2.0	1665.6	1746.5	13.92	11.9	
319	N585		0.00000	2.0	1776.8	1623.6	17.59	15.6	
320	N590		0.00000	7,5	2168.0	1950.1	28.08	20.6	L
321	N591		0.00000	5.0	2058.2	1854.7	15.84	10.8	
322	N592	T	0.00235	7.5	2200.3	1844.1	16.43	8.9	<u> </u>
323	N593	T	0.00000	7.5	2137.7	1950.1	28.08	20.5	
324	N595		0.00000	7.5	2226.1	1924.6	25.65	18.2	
325	N599		0.00000	5.0	2317.6	1880.7	25.65	20.6	T
326	N600		0.00000	10.0	2734.4	2042.1	33.37	23.4	
327	N601		0.00460	4.0	2798.2	2116.8	34.97	30.9	
328	N602	T	0.00000	10,0	2682.1	2058.3	32.81	22.8	
329	N603	1	0.00000	10.0	2682.1	2015.1	32.81	22.8	
330	N604	<del>                                     </del>	0.00000	10.0		1967.1	30.27	20.3	
331	N605	1	0.00092	12.0	4	2128.9	33.57	21.6	
332	N606	1	0.00212	12.0		2140.0	30.76	18.8	† <del></del>
333	N609	1	0.00000	20.0		2008.8	29,65	9.7	T
334	N610		0.00000	10.0		2089.6	32.81	22.8	t
335	N613	<del> </del>	0.00105	10.0		2348.5	27.22	17.2	† · · · · · · · ·
336	N614	<del> </del>	0.00000	15.0	<del></del>	2215.7	29.30	14.3	<del>                                     </del>
	N615		0.00000	4.0		2266.9	30.21	26.2	1
337	<del></del>	+	0.00000	4.0	<del></del> -	2416.2	27.16	23.2	<del> </del>
338	N621	+	0.00199	4.0		2394.4	27.26	23.3	+
339	N625	+				2448.3	26.17	21.2	+
340	N627		0.00000	5.0		2448.3	24.45	19.5	<del> </del>
341	N629		0.00039	5.0		<del></del>	<b>⊣</b> ⊨——		+
342	<del></del>	<b>_</b>	0.00141	5.0	<del></del>	2498.6	24.24	19.2	<del> </del>
343		<del></del>	0.00272	15.0	<del></del>	2137.0	29.65	14.7	<del> </del>
344	<del></del>	<u> </u>	0.00102	15.0		2199.8	29.37	14.4	<del> </del>
345	<del></del>		0,00000	15.0		2217.6	29.37	14.4	<del> </del>
346			0.00131	10.0		1810.3	28.87	18.9	
347	N646	_	0.00133	10.0		1827.6	30,91	20.9	
348	N648		0.00157	10.0	2744.9	1958.0	32.00	22.0	ļ
349	N649		0.00180	5,0	2684.6	1747.3	30.55	25.6	
350			0.00000	10.0	2746.6	1921.2	31.69	21.7	
351		T	0.00000	5.4	2408.8	1700.1	25.64	20.6	
352		T	0.00000	5.	0 2660.5	1671.2	30.94	25.9	
353		<del> </del>	0.00000	5.		1716.6	30.70	25.7	1
354			0.00254	2.4		1678.8	30.04	27.6	
355		1	0.00131	10.0		1801.6	28.19	18.2	1
	1.000		0.00267	10.0		1909.7	28.44	18.4	<del> </del>

Table 3C-2 Node Data (6/10)

ıab	16 2C-5	None	Data	('	6/10)	_			
NO	Node No.	Head at Source, m	Nodal Demand, m³/s	Ground Elevation, m	X Coordinate	Y Coordinate	Total Head, m	Effective Head, m	Supply at Source (m <sup>3</sup> /s)
357	N665		0.00157	10.0	2846.8	1946.7	29.73	19.7	
358	N668		0.00000	15.0	3068.6	1978.1	29.65	14.7	
359	N670		0.00000	5.0	2996.7	1699.8	28.47	23.5	
360	N676		0.00000	5.0	2410.9	1104.3	29.26	24.3	
361	N677		0.00000	5.0	2403.8	1376.8	20.98	16.0	
362	N678		0.00000	5.0	2282.2	923.4	28.55	23.6	
363	N679		0.00416	3.7	2433.2	1029.9	29.46	25.7	
364	N681		0.00000	5.0	2261.1	972.5	28.31	23.3	<u> </u>
365	N683		0.00000	2.5	1779.7	1004,6	25.39	22.9	
366	N687		0.00000	2.5	1829.2	1249.7	25.31	22.8	
357	N688		0.00000	2.5	1850.7	1296.2	25.30	22.8	<del></del>
368	N692		0.00000	5.0	1698.2	1453.3	23.96	19.0	
369 370	N696		0.00000	2.5	1934.7	1303.6	25.30	22.8	<del></del>
371	N698 N702		0.00000	3.0	1849.0	1327.0	25.29	22.3	L
372	N702		0.00000	2.5 5.0	1964.1 2112.9	1243.9 1332.1	25.30 25.25	22.8	
373	N703		0.00000	5.0	2088.3	1256.7	25.25	20.2	<del>-</del>
374	N706		0.00000	5.0	2146.2	1332.1	25.25	20.2	
375	N707		0.00178	5.0	2117.4	1414.4	24.55	19.6	
376	N711		0.00000	5.0	1964.5	833.1	26.67	21.7	
377	N712		0.00518	3.4	1775.7	953.6	25.40	22.0	
378	N719		0.00000	5.0	2185.8	935.7	28.31	23.3	
379	N724		0.00000	5.0	2505.5	1218.2	28.93	23.9	
380	N725		0.00196	5.0	2488.0	1329.5	28.74	23.7	
381	N726		0.00000	5.0	2547.6	1364.5	28.82	23.8	
382	N727		0.00000	5.0	2607.2	1413.6	28.92	23.9	
383	N728		0.00442	5.0	2405.6	1329.5	19.37	14.4	
384	N729		0.00196	5.0	2619.4	1473.2	28.99	24.0	
385	N734		0.00000	5.0	2498.5	1121.8	29.09	24.1	
386	N735		0.00000	5.0	2463.5	1121.8	29.15	24.2	
387	N736		0,00000	5.0	2502.6	1067.9	29.35	24.3	
388	N744		0.00000	5.0	2969.1	1192.2	28.64	23.6	<u> </u>
389	N745		0.00000	5.0	2907.7	1241.3	28.71	23.7	
390	N748		0.00753	3.0	295.8	322.4	20.56	17.6	
391	N750		0.00369	1.8	78.4	268.9	20.56	18.8	
392	N755	4	0.00000	5.0	934.1	341.4	18.88	13.9	
393	N758		0.00377	2.5	1068.9	118.5	11.54	9.0	
394	N760		0.00612	5.5	3262.8	2538.5	28.49	23.0	
395 396	N761 N762		0.00560	10.0 15.0	3871.8 3939.8	2486.2 2656.2	30.50 33.14	20.5 18.1	<del></del>
397	N763		0.00000	10.0	4266.3	2566.5	35.09	25.1	
398	N764	<del>-</del>	0.00000	10.0	4186.7	2540.6	35.09	25.1	
399	N765		0.00256	4.5	4455.2	2484.9	34.50	30.1	
400	N766		0.00000	10.0	4319.0	2573.2	34,94	24.9	
401	N767		0.00000	18.0	5409.8	2546.6	31,61	13.6	·
402	N768		0.00000	12,7	5502.8	2622.5	31.82	19.1	
403	N769		D.00000	15.0	5338.1	2567.9	31.49	16.5	
404	N771		0.00000	10.0	4528.6	2463.4	34.30	24.3	
405	N772		0.00000	10.0	4581.2	2560.5	34.30	24.3	
406	N773		0.00000	10.0	4186.7	2501.6	35.09	25.1	<u> </u>
407	N774		0.00000	10.0	4057.3	2569.5	35.09	25.1	
408	N776		0.00000	10.0	3285.1	2553.0	28.49	18.5	
409	N779	]	0.00000	10.0	3491.8	2540.3	31.19	21.2	
410	N782	I	0.00000	20.0	4122.2	4538.3	35.30	15.3	
411	N783		0.00000	20,0	4168.1	4635.8	34.72	14.7	
412	N785		0.00262	20.0	4645.1	4651.4	33.93	13.9	
413	N786		0.00000	22.0	4927.5	4589.4	34.00	12.0	
414	N792		0.00000	15.0	4326.4	4803.4	33.74	18.7	
415	N795		0.02354	15.0	4204.8	4821.8	33.70	18,7	
416	N796		0.00052	14.0	4551.4	4886.1	33.82	19.8	
417	N797		0.00000	15.0	4574.3	4837.8	33.84	18.8	
418	N798		0.00000	15.0	4496.3	4870.0	33.80	18.8	
419	N800		0.00157	10.0	5303.9	4858.0	34.16	24.2	
420	N801		0.00000	10.0	5104.2	4855.7	34.11	24.1	
421	N802		0.00000	10.0	5017.0	4908.5	34.08	24.1	
422	N805		0.00000	20.0	4804.8	4310.8	34.96	15.0	
423	N806	4	0.00000	22.0	4703.8	4347.6	35.18	13.2	
424	N807		0.00235	20.0	4741.1	4439.7	34.67	14.7	
425	N809		0.00000	15.0	4816.9	4476.4	34.63	19.6	
426 427	N810		0.00000	18.0	4761.6	3536.3	32.41	14.4	
	N811		0.00000	18.0	4852.9	3511.2	32.40	14.4	1

Table 3C-2 Node Data (7/10)

ı anı	e 30-2	Node	Data	(4	7/10)				
NO	Node No.	Head at Source, m	Nodal Demand, m³/s	Ground Elevation, m	X Coordinate	Y Coordinate	Total Head,	Effective Head, m	Supply at Source (m <sup>3</sup> /s)
428	N814		0.00000	19.0	4765.9	3168.5	33.63	14.6	
429	N815		0.00314	18.0	4673,8	3158.5	33.72	15.7	
430	N816		0.00000	15.0	3752.6	3548.4	38.61	23,5	
431	N817		0.00000	15.0	3679.8	3651.1	38.61	23.6	
432	N819		0.00000	15.0	4518,8	3589,5	32.42	17.4	
433	N820		0.00000	15.0	3827.7	3588.6	38.47	23.5	
434	N822		0.00000	15.0	3899.0	3551.8	38.08	.23,1	
435	N823		0.00471	8.5	3888.4	3583.1	38.37	29.9	~
436	N825		0.00000	15.0	4127.9	3472.8	36.21	21.2	
437	N826		0.00000	15.0	4054,9	3604.7 3472.8	38.03	23.0	
438 439	N827 N829		0.00000	15.0	4090.0 3973.6	4269.4	38.03 36.85	23.0 26.8	
440	N834		0.00424	5.9	3389.8	4172.4	38.12	32,3	
441	N835		0.00000	10.0	3588.0	4097.2	38.07	28.1	
442	N837		0.00369	3.6	3544.4	4156.9	38.05	34.5	
443	N838		0.00000	10.0	3686.7	4156.9	37.67	27.7	
444	N844		0.00269	15.0	3207.9	3848.6	37.89	22.9	l
445	N846		0.00403	21.0	3383.0	3945.1	38.08	17.1	
446	N847		0.00000	28.0	3345.6	3896.8	38.03	10.0	<del></del>
447	N848		0.00000	25.0	3260.7	3859.2	37.95	13.0	· · · · · · · · · · · · · · · · · · ·
448	N849		0.00000	25.0	3260.7	3844,0	37.93	12.9	
449	N852		0.00348	28.0	3449.5	3942.8	37,97	10,0	
450	N854	_	0.00000	13.0	3852.3	3882.4	38.18	25.2	
451	N855	Ī	0.00434	13.0	3835.9	3918.1	38.18	25.2	
452	N856		0.00000	10.0	3697.4	3857.9	38,11	28.1	
453	N858	<u> </u>	0.00000	15.0	3674.5	3942.8	38.07	23.1	
454	N861		0.00000	15.0	3711.4	3603.8	38.32	23.3	
455	N862		0.00000	15.0	3870.8	3658.8	38.32	23.3	
456	N863	<u>-</u>	0.00000	15.0	3903.1	3595.7	38.37	23.4	
457	N865		0.00000	15.0	3884.9	3724.8	38.37	23.4	<u> </u>
458	N868		0.00000	15.0	4336.5	4276,4	36,00	21.0	
459	N869	L	0.00209	10.0	3991.3	4322.5	36.72	26.7	
460	N870	L	0.00000	10.0	4023.4	4421.2	36.16	26.2	
461	N872	<u> </u>	0.00000	10.0	4172.7	4258.2	36.33	26.3	<u> </u>
462	N877	Ĺ	0.00000	22.0	4572.9	4379.7	35.47	13.5	
453	N879		0.00000	22.0	4641.8	4386.6	35.33	13.3	
464	N880	<b></b>	0.00000	13.0	4149.7	3649.6	37.83	24.8	<u>-</u>
465	N881	<u> </u>	0.00000	15.0	4184.8	3649.6	37,34	22.3	
466	N884		0.00000	18.0	4214.4	3601.8	36.52	18.5	ļ
467 468	N885 N887	<del> </del>	0.00000	15.0	3985.9 3984.8	2903.4 3419.9	36.65 36.70	21.7	ļ
469	N888		0.00675	15.0	3935.3	3395.4	38.13	23.1	<del> </del>
470	N890	<del> </del>	0.00724	20.0	3995.2	3131.9	36.54	16.5	<del> </del>
471	N892	<del> </del>	0.00463	18.4	3999.1	2891.7	36.56	18.2	<del></del>
472	N893	<del> </del>	0.00000	15.0	3899.3	2900.5	36.57	21.6	<del> </del>
473	N894		0.00000	10.0		2753.7	34.56	24.6	<del> </del>
474	N896	<del> </del>	0.00000	17.0		3414.4	39.12	22.1	<del> </del>
475	N897	+	0.00000	17.0	<del></del>	3397.1	39.14	22.1	+
476	N900		0.00000	20.0	+ · ·	3427.8	39.83	19.8	<del></del>
477	N901	<del> </del>	0.00000	18.0	<del></del>	3409.4	39.75	21.8	<del> </del>
478	N905	<del> </del>	0.00000	25.0	- <b> -</b>	3522.7	40.44	15.4	<del> </del>
479	N913	<del>                                     </del>	0.00000	16.0	<del></del>	3367.2	36.85	20.8	1
480	N915	<del>                                     </del>	0.00000	15.0	·	3468.1	38.83	23.8	†
481	N916	T	0.00000	15.0	<del></del>	3469.8	38,79	23.8	T
482	N918	1	0.00000	15.0	<del></del>	3420.3	36,91	21.9	
483	N919	T	0.00000	10.0	3588.7	2989.5	37.09	27,1	
484	N921	L	0.00000	10.0	3568.9	2692.1	33,16	23.2	
485	N925	1	0.00000	20.0	3573.8	2976.6	36.63	16.6	
486	N927		0.00000	20.0	3264.9	2921.3	37.45	17.5	<u> </u>
487	N928		0.00000	20.0	3262.7	2896.5	37.19	17.2	
488	N931	1	0.00413	20.0		2970.4	36.60	16.6	
489	N933	<u> </u>	0.00000	10.0	<del></del>	2835.7	36.57	26.6	<u> </u>
490	N935	<u> </u>	0.00000	10.0		2820.7	36.57	26.6	<u> </u>
491	N936	ļ <u>.</u>	0.00000	15.0	<del></del>	2941.7	36.59	21.6	<u> </u>
492	N938	ļ	0.00000	15.0	<del></del>	3005.0	36.59	21.6	<u> </u>
493	N939		0.00000	15.0		2834.4	35.64	20.6	<u> </u>
494	N940	<u> </u>	0.00000	15.0		2841.2	35.64	20.6	<u> </u>
495	N941	1:	0.00000	15.0	<del>[</del>	2876.3	35.64	20.6	<u> </u>
496	N942	4	0.00000	10.0		2613.8	33,15	23.1	1
497	N943	.[	0.00000	10.0		2703.8	33,15	23.2	<b>1</b>
498	N944	1	0.00000	10.0	3722.9	2751.6	36.57	26.6	

Table 3C-2 Node Data (8/10)

Tab	le 3C-2	Node	Data	(4	8/10)				
NO	Node No.	Head at Source, m	Nodal Demand, m³/s	Ground Elevation, m	X Coordinate	Y Coordinate	Total Head, m	Effective Head, m	Supply at Source (m³/s)
499	N945		0.00000	13.0	3954.4	2715.4	34.00	21.0	
500	N946		0.00000	10.0	3843.2	2761.2	34.56	24.6	
501	N947		0.00000	10.0	3860.0	2723.3	34.00	24.0	
502	N948	<u>-</u>	0.00000	18.0	4275.8	3007.6	35.27	17.3	
503	N950		0.00000	22.0	4014.1	3041.9	36.55	14.6	
504 505	N952 N953		0.00199	15.0 15.0	<b>4370.5</b> 4298.8	3269.8 3318.5	34.90 35.29	19.9 20.3	
506	N956		0.00000	15.0	4146.9	3392.6	36.05	21.1	
507	N961		0.00000	20.0	4084.6	3138.6	36.54	16.5	
508	N962		0.00000	20.0	4077.9	3211.7	36.54	16.5	
509	N963		0.00000	20.0	4121.2	3138.6	36.54	16.5	
510	N965		0.00000	20.0	4155.4	3138.6	36.54	16.5	
511	N966		0.00000	20.0	4150.6	3207.7	35.54	16.5	
512 513	N967 N968		0.00000	20.0	4107.3	3219.2	36.54	16.5	
514	N969		0.00000	20.0 15.0	4155.4 4298.8	3085.4 3172.9	36.54 35.05	16.5 20.0	
515	N970		0.00000	15.0	4328.6	3138.5	35.10	20.1	
516	N972		0.00149	15.0	4683.7	3423.4	32.42	17.4	
517	N976		0.00000	15,0	4576.1	3127.7	34.03	19.0	
518	N978		0.00275	15.0	4429.6	3221.7	34.55	19.6	
519	N982		0.00000	20,0	4274.2	2941.2	35.91	15.9	
520	N983	· <del></del> }	0.00288	10.0	4204.7	2764.3	35.65	25.7	
521	N984		0.00105	6.0	4184.0	2830.8	36.14	30.1	
522	N985 N987		0.00000	10,0	4280,4	2782.6	35.78	25.8	
523 524	N989		0.00000	20,0 22.0	4186.5 3997.0	2960.5 2969.8	36.03 36.58	16.0	
525	N990		0.00000	15.0	3997.0	2915.3	35.64	21.6	
526	N991		0.00000	15,0	4001.3	2902.4	36.56	21.6	
527	N992	· ·- <del>-</del>	0.00000	22.0	4014,1	2969.8	36.56	14.6	
528	N994	1	0.00000	6.0	4188.3	2939.5	36.03	30.0	
529	N997	<u>.</u>	0.00157	15.0	4285.0	2844.6	35.88	20.9	
530	N1000		0.00000	18.0	5449.3	3564.3	30.11	12.1	
531	N1001		0.00288	18.0	5481.5	3587.2	29.27	11.3	
532 533	N1002 N1003		0.00000 0.00617	18.0 16,0	5648.1 5345.5	3525.6	29.27	11.3	
534	N1003		0.00288	16,4	5335.7	3542.4 3599.9	32.37 32.40	16.4 16.0	
535	N1007		0.00000	18.0	5033.4	3627.6	32.52	14.5	
536	N1008		0.00000	18.0	5153.6	3579.6	32.52	14.5	
537	N1009		0.00000	18.0	5296.1	3572.4	32.41	14.4	
538	N1011		0.00471	15.0	5581.0	4056.0	31.14	16.1	
539	N1014		0.00000	13,2	5542.4	3974.9	32.30	19.1	
540	N1015		0.00000	15.0	5781.3	3952.1	32.20	17.2	
541	N1016		0.00366	16.5	5540.7	3740.2	29.16	12.7	
542 543	N1018		0.00000 0.00288	20.0 <b>21.5</b>	5160.9	4072.9	31.20	11.2 10.5	
544	N1019 N1021		0.00000	15.0	<b>5235.3</b> 5429.9	4084.6 4077.6	<b>32.01</b> 31.44	16.4	<del></del>
545	N1022		0.00000	15.0	5456.2	4095.9	31.50	16.5	
546	N1023		0.00000	22.0	5197.9	4462.6	34.45	12.5	
547	N1024		0.00000	22.0	5069.4	4504.0	34.51	12.5	
548	N1027		0.00000	15.0	5308.5	4428.7	34.39	19.4	
549	N1028		0.00000	20.0	5253.4	4405.7	34.42	14.4	
550	N1029		0.00000	15.0	5420.5	4157.5	31.64	16.6	
551	N1030		0.00000	10.0	5184.7	3940.3	31.20	21.2	
552 553	N1031 N1032		0.00078 0.00000	<b>20.0</b> 18.0	5089.5 4783.1	4056.7 3698.6	30.46 32.12	10.5 14.1	
554	N1034	· · · ·	0.00078	18.0	4792.8	3816.5	31.95	14.0	· · · · · · · · · · · · · · · · · · ·
555	N1037		0.00000	18.0	5042.0	3686.1	32.52	14.5	
556	N1040		0.00000	20.0	5298.4	3982.3	31.26	11.3	
557	N1041	†	0.00000	20.0	5277.4	4036.0	31.62	11.6	
558	N1043		0.00000	15.0	5440.7	4056.6	31.40	16.4	
559	N1044		0.00000	20.0	5324.9	3717.7	32.41	12.4	
560	N1046		0.00000	18.0	5236.9	3747.3	32.41	14.4	
561	N1048		0.00000	18.0	5744.0	4057.8	32.15	14.2	·
562	N1049		0.00000	18.0	5874.8	4107.6	32.15	14.2	
563 564	N1050 N1051		0.00000	15.0	5702.4 5724.3	4125.8	32.12 32.29	17.1	
565	N1055		0.00105	10.0	5854.0	4327.2	31.76	21.8	
566	N1056		0.00000	19.0	5587.4	2903.2	32.22	13.2	
567	N1057		0.00000	18.0	5540.0	2972.2	32.36	14.4	
568	N1058		0.00000	15.0	5383.7	2712.3	31.91	16.9	
			0.00000	20.0	5627.9	2824.2	32.08	12.1	

Tabl	e 3C-2	Node	Data	(9	9/10)				
NO	Node No.	Head at Source, m	Nodal Demand, m <sup>3</sup> /s	Ground Elevation, m	X Coordinate	Y Coordinate	Total Head, m	Effective Head, m	Supply at Source (m³/s)
570	N1060		0.00000	20.0	5632.2	2720.0	31.95	11.9	
571	N1063		0.00000	15.0	5096.0	3215.4	33.30	18.3	
572	N1064		0.00000	15.0	5041.1	3056.1	33.30	18.3	
573	N1066		0.00000	10.0	5093.4	3034.5	33,03	23.0	
574	N1068		0.00000	10.0	5185.5	3037.0	32.96	23.0	
575	N1069		0.00000	15.0	5265.5	3099.6	32.86	17.9	
576	N1070		0.00000	15.0	5205.4	2940.8 3075.0	32.86 32.65	17.9 14.7	
577	N1071	<del> </del>	0.00620	18.0 17.0	5390.2 5356.6	3024.8	32.55	15.6	
578 579	N1072 N1074	<del> </del>	0.00058	18.0	5181.5	3333.5	29.67	11.7	·····
580	N1075	<del> </del>	0.00000	10.0	5193.4	3137.3	33.03	23.0	
581	N1080	<del> </del>	0.00209	18.6	4981.3	3520.7	33.36	14.8	
582	N1081	†	0.00000	18.0	4949.7	3520.7	32.52	14.5	
583	N1084	† · · <del>-</del> · · -	0.00000	18.0	5102.1	3529.2	32.55	14.5	
584	N1085	T - ''-	0.00306	16.7	4994.0	3219.3	33.55	16.9	
585	N1086		0,00562	13.0	4835.9	3179.6	33.55	20.6	
586	N1089		0.00000	18.0	5110.0	3296.2	31.53	13.5	
587	N1091	Ţ <u> </u>	0.00991	18.0	5347.9	3351.1	32.43	14.4	
588	N1093	1	0.00060	18.0	5504.5	3339.8	31.46	13.5	ļ
589	N1094		0.00000	18.0	5354.1	3391.6	32.42	14.4	
590	N1095	<b></b>	0.00000	18.0	5287.2	3339.9	29.67	11.7	
591	N1096	<u> </u>	0,00819	18.4	5358.7	3098.7	32.65	14.3	
592	N1097	<u> </u>	0.00000	19.0	5337.5	3162.8	32.60	23.0	<del> </del>
593	N1098	<del> </del>	0.00000	10.0	5222.7 5159.8	3117.3	32.86	17.9	<del> </del>
594	N1102	+	0.00000	15.0	5165.4	2701.5	31.89	16.9	<del></del>
595	N1103	<del> </del>	0.00000	15.0	5124.9	2637.8	31.76	16.8	<del>                                     </del>
596	N1104 N1105	<u> </u>	0.00000	15.0		2835.4	32.13	17.1	
597 598	N1105	- <b></b>	0.00000	17.0		2985.8	32,43	15.4	† <u>-</u>
599	N1108		0.00000	18.0		3566.0	29.27	11.3	<del>                                     </del>
600	N1111	···	0.00000	20.0		2775.3	31,99	12.0	<del></del>
601	N1112		0.00000	20.0		2769.4	31.97	12.0	
602	N1113		0.00000	18.0	5819.8	2801.0	31.77	13.8	
603	N1116	T	0.00000	20.0	6081.4	2830.9	31.43	11.4	
604	N1117		0.00000	20.0	6154.5	2905.3	31.30	11.3	
605	N1118	<b>I</b>	0.00000	10.0	6551.6	3055.2	30.75	20.7	<u> </u>
606	N1120	Ι	0.00230	5.0	6901.0	3084.8	30.30	25.3	
607	N1122		0.00000	8.0		1913.7	30.74	22.7	<del> </del>
608	N1123	<u> </u>	0.00308	5.0	<del></del>	1973.5	30.96	26.0	- <del> </del>
609	N1124		0.00000	8.0		1824.1	30.29	22.3	<del> </del>
610	N1127		0.00395	5.1		2131.9	33.30	28.2	-
611	N1128	+	0.00000	5.0		2096.8 1466.4	27.92	22.9	
612			0.00000	4.2		2156.0	35.66	31.4	<del> </del>
613		<del></del>	0.00028	10.0	<b></b>	2156.3	33.19	23.2	<del> </del>
614 615			0.00000	10.0		2014.6	26.37	16.4	
616			0.00324	15.0		2156.0	30.05	15.0	<del> </del>
617			0.00272	7.0		1942.6	27.14	20.1	
618	<del>-   </del>	<del></del>	0.00000	13.	+	2156.0	32.25	19.3	T
619			0.00000	12.	0 3370.7	2303.4	29.27	17.3	1
620		1	0.00000	12.	0 3239.5	2334.5	29.12	17.1	
621	N1146	1	0.00000	12.	0 3229.7		29.24	17.2	<b></b>
622	N1147	I	0.00000	12.			29.27	17.3	<u> </u>
623	N1148		0.00000	10.				18.8	. <b></b>
624		<del></del>	0.00324	5.	<del></del>			24.7	<del> </del>
625			0.00000	<b></b>	4 3379.4	<del></del>		20.1	<del>                                     </del>
628			0.00000	12				17.4	
627			0.00000	15.			<del></del> -	14.6	<u> </u>
628			0,00000		.0 3522.5 .0 3466.9			22.4	<del></del>
629			0.00000		.0 3309.0			22.6	+
63			0.00162	10.				16.9	1
63			0.00000		.0 3613.1			22.4	<del></del>
63			0.00000		.0 3763.0				<del></del>
63		- +	0.00000		.0 3783.4				·· <del>†</del>
63			0.00411		.9 3691.2			+	
63	. <del></del>		0.00000		3621.9				
63	- · <del></del>		0.00000	4-	.0 3648.2	2025.1	26.37	16.4	. I
63			0.00000		.0 3814.	1 1955.7	20.74	10.7	
63			0.00000	10	0.0 4291.	2 2011.	32.97	<del></del>	
6.4	0 N117	2	0.00000	10	,0 4290.	4 2087.9	32.97	23.0	<u> </u>

Table 3C-2 Node Data (10/10)

ap	16 20-5	Node	Data	t.	0/10)				_
NO	Node No.	Head at Source, m	Nodal Demand, m³/s	Ground Elevation, m	X Coordinate	Y Coordinate	Total Head, m	Effective Head, m	Supply at Source (m³/s)
641	N1176		0.00000	10.0	4718.9	2053.5	31.95	21.9	
642	N1177		0.00000	10.0	4614.8	2036.8	31.95	21.9	
643	N1178		0.00274	10.0	4388.3	2148.4	32.87	22.9	
644	N1179		0.00000	10.0	4446.3	1969.1	31.37	21.4	
645	N1180		0.00000	10.0	4291.0	2386.5	33.89	23.9	
646	N1181		0.00000	10.0	4290.4	2154.8	32.97	23.0	
647 648	N1183 N1187		0.00246 0.00000	10.0 10.0	<b>4214.1</b> 4214.1	2154.8 2181.9	33.05 33.14	23.1 23.1	
649	N1189		0.00000	10.0	4251.5	2072.0	32.97	23.0	
650	N1191		0.00000	10.0	4650.0	2242.6	33.59	23.6	
651	N1198		0.00010	10.0	4030.5	1946.9	20.74	10.7	
652	N1200		0.00000	10.0	4310.2	1939.9	32.97	23.0	
653	N1201		0.00000	8.0	4699.0	1709.5	29.87	21.9	
654	N1204		0.00010	5.0	4460.6	1925.3	31.00	26.0	
655	N1207		0.00000	5.0	3762.6	1377.6	28,12	23.1	
656	N1208		0.00505	5.0	3982.6	1392.1	28.11	23.1	
657	N1209		0.00000	5.0	3424.9	1059.6	28.09	23.1	<del></del>
658	N1210		0.00000	5.0	3428.4	794.8	28,09	23.1	
659	N1211		0.00000	5.0	3617.8	1047.7	28.09	23.1	
660	N1212		0.00052	5.0	3680.9 3430.1	946.0	28.01	23.0	
661 662	N1214 N1215		0.00343	5.0_ 3.7	3603.8	1350.9 1393.1	28.10 28.12	23.1 24.4	
663	N1215		0.00350	5.0	3254.7	1253.6	28.19	23.2	<del></del>
664	N1221		0.00000	5,0	3612.5	689.6	28.09	23.1	
665	N1224		0.00000	5.0	4435.1	1292.4	28.39	23.4	
686	N1226		0.00000	5.0	4422.2	1128.5	28.39	23.4	
667	N1227		0.00463	4.4	4641.1	1344.9	28.51	24.1	
668	N1228		0.00000	5.0	4615.2	1455.7	28.91	23.9	
669	N1229		0.00000	5.0	5017,7	1536.0	28.55	23,6	
670	N1230		0.00000	5,0	5059,8	1474.6	28,55	23.5	
671	N1234		0.00290	10.0	5855.3	2022.1	27.95	18.0	
672	N1238		0.00926	10.0	5170.4	2094.0	28.84	18.8	
673	N1239		0.00000	10,0	5000.0	2154.6	30.28	20.3	
674	N1240		0.00000	10.0	5011.3	2196.8	30.28	20.3	
675	N1241	<del></del>	0.00000	10.0	4998.6	2249.0	30.28	20.3	
676 677	N1245 N1246		0.00000 0.00424	10,0 5.0	5457.6 5235.9	2119,1 1671.0	28.47 28.59	18.5 23.6	
678	N1249		0.00000	8.0	4910.5	1913.7	30.74	22.7	
679	N1250		0.00000	5.0	5119.2	1944.0	28.75	23.8	
680	N1253		0.00000	10.0	6287.9	1942.8	27.95	18.0	
681	N1256		0.00000	5.0	5031.8	1281,7	28.50	23.5	
682	N1257		0.00000	5.0	5117.7	1283.5	28.53	23.5	
683	N1258		0.00000	5.0	5068.6	1213.4	28.53	23.5	
684	N1260		0.00000	5.0	5096,6	1350,1	28,54	23.5	
685	N1261		0.00052	5,0	5021.2	1202.8	28.14	23.1	
686	N1262		0.00000	5.0	4989.7	1220.4	28.14	23.1	
687	N1263		0.00000	5.0	5061.6	1267.7	28.50	23.5	
688	N1500	41.50	0.00000	24.0	2690.3	3606.8	41.50	17.5	0.57028
689	N1300	<del>-</del>	0.00000	15.0	3584.4	2892.5	35.64	20.6	
690	N1301		0.00000 0.00040	4.0	2819.3	2631.8	36.28	32.3	<del></del>
691 692	N1302 N1304	<del></del>	0.00040	25.0 24.0	3451.5 2659.5	3726.8 3606.0	37.96 41.30	<b>13.0</b> 17.3	<del> </del>
693	N1304 N1305		0.00000	20.0	4989.8	3223.5	33.58	13.6	
694	N1306		0.00000	18.0	5532.0	3742.5	32.32	14.3	
695	N1307		0.00000	10.0	2634.6	3259.6	39.67	29.7	<del>-</del>
696	N1308		0.00000	5.0	5093.6	1249.1	28.53	23.5	
697	NV2_1		0.00000	10,1	2567.6	3427.9	0.00	(10.1)	
698	NV2_2		0.00000	10,1	2567.6	3427.9	40.63	30.6	
699	NV3_1		0.00000	7.5	2887,7	2805.8	36.74	29.2	
700	NV3_2		0.00000	7.5	2887.7	2805.8	0.00	(7.5)	
701	N1309		0.01491	10.0	2932.5	2606.7	29.02	19.0	
702	N1310		0.00000	11.5	2048.5	3989.3	30.22	18.7	
703	N1311		0.00000	12.0	2371.9	3641.8	32.39	20.4	
704	N1313		0.00000	2.00	2803.7	2890.8	37.79	35.8	
705	N1314		0.00146	20.03	3024.8	3064.5	37.37	17.34	
706 707	N1315		0.00000	17.04	4576.7	3194.1	35.54	18.50	<del>-</del>
	N1083		0.00000	15.00	4996.5	3505.5	32.60	17.60	Ì

<u>Tabl</u>	le 3C <sub>:</sub>	<u>3 Pip</u>	e D <u>ata</u>		_	(1/1	0)					
No	Pipe No.	From Node No.	To Node No.	Demand (m³/s)	Type (P- Pipe V-Valve)	C Value	Length, m	Diameter, m	Flow rate (m³/s)	Head Loss, m	Friction Gradient, m/km	Velocity, m/s
1	P2	N4	N5	0.000	P	90	84.2	0.075	0.00045	0.04	0.51	0.103
2	P6	N12	N13	0.000	P	90	61.1	0.050	-0.00015	0.03	-0.47	-0.076
3	P7	N14 N26	N15 N27	0.000	P	130	121.8	0.100	0.00231	0.16	1.29	0.294
5	P17	N34	N35	0.000	P	90	81.2 111.5	0.050	0.00100	0.97	15.90	0.511
6	P18	N36	N37	0.000	P	90	64.2	0.050	-0.00099	-0.99	-15.49	-0.504
7	P19	N38	N39	0.000	-	90	91.4	0.075	0.00165	0.51	5.55	0.374
8	P22	N44	N45	0.000	Р	130	69.6	0.100	0.00128	0.03	0.43	0.163
9	P23	N46	N47	0.000	Ρ	90	126.1	0.050	0.00134	3.41	27.01	0.681
10	P27	N53	N54	0.000	Р	90	165.1	0.038	0.00000	0.00	0.00	0.000
11	P28	N55	N56	0.000		90	103.2	0.050	0,00047	0.40	3.87	0.238
12	P30 P53	N59	N47 N82	0.000	P	130	61.3	0.100	0.00225	0.08	1.23	0.287
14	P56	N81 N86	N87	0.000		130	463.2 36.0	0.150 0.050	0.00000	0.00	0.00	0.000
15	P57	N50	N86	0.000		130	14.4	0.050	0.01061	0.04	8.67 3.00	0.368 0.601
16	P61	N81	N41	0.000	P	130	62.0	0.150	-0.00134	0.00	-0.06	-0.076
17	P62	N81	N46	0.000	Р	90	41,3	0.050	0.00134	1.11	27.01	0.681
18	P71	N96	N\$5	0.000	Р	90	96.9	0.050	0.00047	0.37	3.87	0.238
19	972	N86	N97	0.000	P	90	76.6	0.050	0.00121	1,72	22.41	0.615
20	P74	N97	N96	0.000	P P	90	34.2	0.050	0.00121	0.77	22.41	0.615
21	P76 P79	N100 N106	N101 N107	0.000	P	130 130	156.0 54.0	0.150	-0.01452	-0.84	-5.36	-0.822
23	P81	N98	N110	0.000	- <del>-</del>	130	45.8	0.100	0.01033	1,11 0,33	20.58 7.31	1.316 0.752
24	P90	N125	N119	0.000	P	90	58.3	0.038	0.00052	1.05	18.07	0.460
25	P96	N135	N133	0.000	Р	120	107,0	0.300	-0.02732	-0.07	-0.68	-0.387
26	P106	N142	N140	0.000	P	90	130,5	0.038	0.00008	0.08	0.60	0.073
27	P108	N143	N144	0.000	P	90	107.4	0.038	D.00011	0.10	0.96	D.094
28	P116	N153	N148	0.000	P	90	32,9	0.075	-0.00077	-0.04	-1.34	-0.174
29	P127	N143	N156	0.000	P -	90	70.2	0.038	0.00006	0.02	0.29	0.049
30 31	P129 P130	N121 N119	N162 N163	0.000	P	130 90	79.0 68,1	0.100	0.00000	0.00	0.00	0.000
32	P132	N130	N164	0.000	<u>-</u>	90	92.9	0.038	-0.00019	-0.26	0.00 -2.77	-0.167
33	P133	N140	N130	0.000	- <u>-</u> -	90	19.8	0.038	-0.00068	-0.59	-29.84	-0.604
34	P136	N166	N167	0.000	P	90	81.4	0.038	-0.00019	-0.23	-2.77	-0.167
35	P139	N123	N121	0.000	P	130	56.1	0.100	0.00000	0.00	0.00	0.000
36	P140	N167	N168	0.000	Р	130	52.0	0.100	-0.00891	-0.81	-15.66	-1.135
37	P144	N170	N171	0.000	P	_ 120	390,0	0.300	-0.01650	-0.10	-0.27	-0.233
38	P145	N171	N117	0.000	P	120	232.0	0,300	-0.02154	-0.10	-0.44	-0.305
39 40	P149 P150	N174 N176	N175 N174	0.000	P	90	46.0 75.8	0.038	-0.00015	-0.09	-1.86	-0.135
41	P156	N181	N183	0.000	P	130	96,7	0.038	-0.00015 -0.00369	-0.14 -0.30	-1.86 -3.07	-0.135 -0.470
42	P159	N179	N185	0.000	<del>                                     </del>	90	41.8	0.075	-0.00233	-0.44	-10.46	-0.527
43	P160		N186	0,000	Р	90	32.7	0.038	0,00000	0.00	0.00	0.000
44	P161	N185	N183	0.000	Р	90	36.0	0.075	-0.00233	-0.38	-10.46	-0.527
45	P162	N187	N176	0.000	l P	90	20.6	0.038	-0.00015	-0.04	-1,86	-0.135
46	P163		N187	0.000	Р	90	29.2	0.038	-0.00015	-0.05	-1.86	-0.135
47	P164	N189	N188	0.000	P -	90	19.4	0.038	-0.00015	-0.04	-1,86	-0.135
48	P172		N195 N98	0.000	P	130	34.8 77.0	0.038	-0.00000	-0.14	0,00 -1,79	0.000 -0.454
50	P175		N98	0.000	Р	130	17.5	0.150	-0.01452	-0.09	-5.36	-0.822
51	P179		N200	0.000	P	90	100,7	0.075	0.00000	0.00	0.00	0.000
52	P181		N202	0.000	P	90		0.075	0,00000	0.00	0.00	0.000
_53	P182	N201	N199		P	90		0.075	0.00058	0.03	0.81	0.132
54	P189		N211		P	130		0.150	0,00353	0.02	0.39	0.200
55	P190		N106	0.000	<del> </del> :	130		0.100	0.01326	0.95	32.64	1.688
56 57	P192				P	130			0.00128 -0.00545	0.06 -0.21	0,43 -6,31	0.163 -0.695
58	P196					130			0.00078	0.00	0.02	0.044
59	P198				Р	130			0.00000	0.00	0.00	0.000
60	P200	N216	N228	0.000	Р	130	75.5	0.100	0.00217	0.09	1.15	0.276
61	P201	<del></del>			Р	130			0.00217	0.12	1,15	0.276
62	P206				P _	130			0.00217	0.08	1.15	0.276
63	P217				<u>Р</u>	90			0.00000 0.00000	0.00	0,00	0.000
65	P218				Р	90			0.00000	0.00	0.00	0.000
66	P224				P	90			0.00000	0.00	0.00	0.000
67	P226				P	130			0.00292	0.09	1.99	
68	P229	N251	N252	0.000	P	90	135.8	0.038	0.00000	0.00	0.00	0.000
69	P232				Р	90			0.00065	1.89	27.40	0.577
70	P23				P	130			0.00353	0.02	0.39	0.200
71	P234				<u>Р</u>	90			0.00054	0.33		0.273 0.656
72	P24				P	90			0.00074	3.70 0.90	34.83 6.95	0.422
74	P24				P	130				-0.18		-0.457
75	P24					130				-0.11		-0.457
76	P24	8 N21	N270	0.000	Р	13	130.9	0.100	-0.00231	-0.17	-1.29	-0.294
77	P24	9 N270	N44		Р	130	47.3		0.00128	0.02	0.43	0.163
78	P25				Р	13			-0.00359	-0.14		-0.457
79	P25				Р.	13				0.02		
80 81	P25				P	13			0.00134 -0.00121	-1.83		
82	P25				<del></del> -	99			0.00121	0.87		
83	P26				- F	9			0.00121	2.07	22.41	
84	P26				P	9				-0.28		
85	P26	8 N28	N28	0.000	Р	9	96.6	0.038	0.00021	0.32	3,29	0.183
86	P27				. P	9						
87	P27	1 N28	N27	5 0.000	P	9	o <u>60.</u> 1	0.038	0.00021	0.20	3.29	0.183

(2/10) Table 3C-3 Pipe Data Type (P-Pipe Friction Flow rate Diameter. Head Velocity, Pipe No C Value Length, m Gradient Node No Node No  $(m^3/s)$ (m3/s) Loss, m v-valve m/km N285 0.000 P27 N286 P 0.038 0.00021 0.18 0.183 P284 89 N295 N205 0.000 130 77.7 0.100 0.00134 0.04 0,47 0.170 P285 90 N296 N297 0.000 0.000 90 131.3 0.050 0.00000 0.00 0.00 N298 91 P286 N299 0.000 ē 130 0.150 -0.01070 66.6 -0.20 -0.605 -3.05 P 79.2 92 P287 N300 N301 0.000 90 0.038 0.00000 0.00 0.000 0.00 93 P288 N297 N207 0.000 130 0.694 34.1 0.150 0.01226 0.13 3.92 P289 N302 N303 P 94 0.000 114.3 0.038 0.00013 0.16 1,42 0.117 9( -4.48 7.31 95 P291 N306 N100 0.000 130 193.6 0.150 -0.01318 -0.87 -0.746 P294 N110 96 N311 0.000 0.00591 130 104.9 0.100 0.77 0.752 97 P304 N311 N320 0.000 90 22.1 0.40 18.07 0.460 0.038 0.00052 98 P305 N319 N312 0.000 130 16.1 0.100 -0.01151 -0.41 -1.466 -25,14 P306 99 N311 N319 0,000 130 15.4 0.100 0.00174 0.01 0.77 0.222 P31; N328 100 0.000 90 51.4 0.050 0.00000 0.00 0.000 0.00 0.150 101 P317 N297 N209 0.000 130 52.6 0.00353 0.02 0.39 0.200 P324 N333 102 N306 0.000 130 85.2 0.150 -0.01318 -0.38 -4 48 -0.746 P327 N333 0.000 103 N302 90 0.117 72.8 0.038 0.00013 0.10 1.42 104 P329 N301 N334 0.000 P 50.4 0.038 0.00000 0.00 0.00 0.000 105 P333 N339 N340 0.000 P 130 91.7 0,100 0.00050 0.01 0.08 0.064 P342 N298 130 106 N349 0.000 44.5 0.150 -0.00955 -0.11 -2 47 -0.540 107 N350 N300 0.000 37.3 0.00000 0.00 0.000 90 0.038 0.00 108 P350 N354 NV3\_1 N357 0.000 P 90 61.1 0.038 0.00000 0.00 0.00 0.000 P351 N356 -0.303 0.303 109 0.000 84.6 0.150 -0.00536 -0.07 -0.85 P354 0.000 P 110 N362 130 65.9 0,150 0.00536 0.06 0.85 111 P356 P361 N361 N345 0.000 P 90 37.1 0.038 0.00000 0.00 0.00 0.000 -0.154 0.199 112 N17 N365 0.000 90 205.1 0.075 -n 00068 -0.22 -1.07 P362 90 113 N356 N18 D.000 229.5 0.00088 0.40 0.075 1.72 114 P364 N368 N354 0.000 P 90 0.075 -0.00625 -8.19 125.9 -1.414 P365 0.000 90 115 N369 N354 18.2 0.075 0.00380 0.47 25.98 0.861 90 90 116 P366 N369 N356 0.000 -0.00380 -0.69 0.075 26.4 -25.98 -0.861117 P367 N368 0.000 P 0.00014 0.01 0.032 N366 0.075 0.06 118 P368 N38 N368 0.000 90 48.9 0.075 -0.00368 -1.19 -24.38 -0.832 P373 N373 N374 0.000 P 90 90 119 254.6 0.075 0.00145 1.12 4.39 0.329 P374 N376 0.000 120 N375 123.8 0.050 -0.00057 -5.52 -0.08 -0.288 -0.68 121 P375 N377 N378 0.000 P 90 0.050 0.00006 -0.01 -0.030 60,3 P376 N378 -0.21 3.22 122 N373 0.000 130 100.7 0.150 -0.00862 -2.04 -0.488 P382 0.00321 0.727 N387 0.000 0.075 123 90 169.8 18.98 124 P383 N389 N387 0.000 P 90 0.075 0.00444 10.01 34.52 1.004 289.8 125 P386 N394 N3951 0.000 P 90 166.0 0.050 0.00000 0.00 0.00 0.000 P387 0.000 -0.553 N396 90 0.075 -0.00244 126 N397 100.4 -1.15-11.46 0.00000 127 P393 N408 0,000 90 0.00 0.000 N409 0.00 128 P392 N402 N410 0.000 ₽ 90 138.8 0.075 0.00172 0.83 5.99 0.390 P39 N41 0.000 90 0.050 -1.87 -0.368 129 N35 216,2 -0.00072-8.67 130 P396 N412 N41 0.000 90 125.3 0.075 -0.00072 -0.15 -0.164 -1.20 P 90 131 P399 N414 N415 0.000 190.9 0.050 0.00052 0.91 4.76 0.266 P402 132 N387 N402 0.000 53.6 1.68 0.952 0.075 0.00421 31.28 133 P403 N402 0.000 PP 0.050 0.49 0.266 90 103.4 0.00052 4.76 1.44 1.43 134 P404 N404 N408 0.000 88 192.7 0.075 0.00194 7.50 0.440 P40 190.5 135 N407 N404 0.000 0.075 0.00194 7,50 0.440 P408 N420 N42 0.000 257.4 0.00058 1.46 0.293 136 90 0.050 5.68 137 P409 N407 0.000 0.00480 0.49 0.611 N420 98.6 0.100 P 138 P410 N407 N423 0.000 90 55.6 0.075 0.00026 0.01 0.18 0.059 P411 N422 0.000 0.050 0.57 0.293 139 N424 90 100.8 0.00058 5.68 0.20 P413 N427 0.000 130 0.306 0.100 0.00240 1.38 141 P414 N426 N427 0.000 P 90 129.7 0.075 -0.00076 -0.17 -1.31 -0.171 130 130 0.271 0.000 0.03 142 P415 N428 N427 26.8 0.100 0.00213 1.11 P41 N398 0.000 0.00149 0.59 16.67 0.757 143 144 P418 N395 N429 0.000 P 90 62.4 0.050 0.00000 0.00 0.00 0.000 P426 0.00172 0.40 0.390 145 N410 N4381 0.000 90 66.5 0.075 5.99 146 P427 N436 0.000 90 0.050 0.00000 0.00 0.00 0.000 ř 147 P428 N438 N408 0,000 90 9.8 0.075 -0.00194 -0.07 -7.50 -0.440 0.184 P429 0.00081 0.10 1.50 148 N438 N436 0.000 90 64.4 0.075 P430 N410 0.000 0.00000 0.00 0.000 149 90 89.9 0.038 150 P452 N457 N458 0.000 P 90 250.9 0.050 0.00000 0.00 0.00 0.000 P 0.277 151 P456 N464 N465 0.000 130 118.0 0.100 0.00218 0.14 1.16 P457 0.000 105.4 0.050 0.00 0.00 0.000 152 N458 N466 0.00000 90 153 P472 N464 N482 0.000 P 90 109.2 0.050 0.00000 0.00 0.00 0.000 p -0.277 154 P473 NARA N479 0.000 130 172.4 0.100 -0.00218 -0.20 -1 16 P481 N466 0.050 0.00000 0.00 0.00 0.000 155 0.000 18.5 N488 90 P487 P -0.00006 -0.030 156 N376 0.000 90 69.1 0.050 -0.01 -0.08 157 P492 N373 N459 0.000 D 160 117.0 0.075 -0.00457 -1.47 -12 60 -1.036 P495 -0.00622 -0.14 -1.12 -0.352 N497 N499 0.150 158 0.000 130 121.8 1.54 0.000 90 0.075 0.00299 0.677 159 P496 N500 92.3 16.64 0.254 160 P497 N501 N502 0.000 ⇁ 90 165.1 0.050 0.00050 4.35 -1.72 -0.00593 -59.09 P499 N505 90 0.075 161 N503 0.000 29.2 P500 0.000 0.050 -0.00092 -1.83 -13.41 -0.466 162 N505 N506 0.000 163 P501 N507 N462 Р 130 180.1 0.050 0.00149 3.00 16.67 0.757 P506 0.00092 1.28 13.41 0.466 N394 N506 90 95.8 0.050 164 0.00244 P507 0.000 0.075 -0.88 -11.46 -0.553 165 76.8 16,64 0.677 166 P511 N457 N503 0.000 P 90 90 174.5 0.075 0.00299 2.90 -0.05 N516 0.000 -0.00005 0.00 -0.023 P515 83.2 0.050 167 P518 N501 0.000 67.1 0.050 -0.00041 -0.20 -0.20 -3.04 -0.209 168 0.000 70.9 169 P519 N518 N516 P 90 0.050 -0.00040 -2.89 -0.203 -0.20 P526 0.000 50.8 0.150 -0.01230 -0.696 130 170 N499 N522 0.000 0.000 0.000 P533 N500 Ė 130 72.0 0.150 -0.00531 -0.06 -0.83 -0.301 -0.350 130 130 172 P536 N528 N500 P 39.2 0.150 -0.00618 -0.04 -1.10 N531 -0.00736 -1.43 10.99 -0.937 P539 130.5 0.100 173 N5321

176.1

0.075

0.00128

0.61

3.45

0.289

P540

N533

N534

0.000

Table 3C-3 Pipe Data (3/10)

I an	16 2C.	<u>ა Pip</u>	<u>e Data</u>	<u> </u>		(3/1	0)					
No	Pipe No.	From Node No.	Ta Node No.	Demand (m³/s)	Type (P- Pipe V-Valve)	C Value	Length, m	Diameter, m	Flow rate (m³/s)	Head Loss, m	Friction Gradient, m/km	Velocity, m/s
175	P542	N537	N533	0.000	P	90	34.0	0.075	0.00128	0,12	3.45	0.289
176	P546	N543	N544	0.000	P	90	101.6	0.050	0.00000	0.00	0.00	0,000
177	P548 P549	N541 N389	N546 N547	0.000	P	90	116.5	0.050	0.00013	0.04	0.38	0.068
179	P556	N551	N389	0.000	P	90	149,4 168,2	0.038 0.075	-0.00068 -0.00317	4.40 -3.12	29.46	0,600 -0,718
180	P558	N558	N556	0.000	P	90	29.8	0.050	0.00093	0.41	-18.55 13.71	0.472
181	P559	N37	N559	0.000	P	90	119.0	0,050	-0.00099	-1.84	-15.49	-0.504
182	P560	N37	N560	0.000	P	90	28.1	0.050	0.00000	0.00	0.00	0.000
183	P561	N559	N556	0.000	Р	90	91.4	0.050	-0.00099	-1.42	-15.49	-0.504
184	P567	N565	N566	0.000	P	90	162.8	0.050	0.00054	0.81	4.99	0.273
185	P568	N555	N565	0.000	P	90	131.8	0.050	0.00054	0.66	4.99	0.273
186	P572 P584	N569 N577	N564 N381	0.000	P	90 90	38.8 38.3	0.075 0.050	-0.00107 -0.00232	-0.10	-2.50	-0.243
188	P585	N388	N381	0.000	<del></del>	90	84.0	0.030	0.00321	-2.87 1.59	-74.94 18.98	-1.181 0.727
189	P588	N580	N581	0.000	P	90	108.5	0.050	0.00109	2.01	18.49	0.727
190	P590	N581	N577	0.000	Р	90	46,9	0.050	-0.00232	-3.52	-74.94	-1.181
191	P600	N591	N592	0.000	P	90	142.6	0.050	-0.00049	-0.60	-4.19	-0,249
192	P601	N590	N593	0.000	P	90	30.3	0.075	0.00000	0.00	0.00	0.000
193	P605	N592	N595	0.000	P	90	84.5	0.050	-0.00284	-9.22	-109.11	-1.447
195	P612 P613	N600 N602	N601	0.000	P	130 90	98.3 43.3	0.100	-0,00908 0.00000	-1.59 0.00	-16,21 0.00	-1.156 0.000
196	P614	N604	N605	0.000	P	90	163.2	0.050	-0.00114	-3.29	-20.17	-0.581
197	P617	N601	N610	0.000	P	90	111.5	0.075	0.00325	2.16	19.36	0.735
198	P621	N610	N602	0.000	Р	90	32.3	0.050	0.00000	0.00	0.00	0.000
199	P622	N613	N614	0.000	P	90	143.1	0.050	-0.00096	-2.08	-14.55	-0.487
200	P632	N625	N621	0.000	P	90	24.4	0.075	0.00140	0.10	4.08	0.317
201	P636 P641	N629 N631	N630	0.000		90 130	32.5 138.0	0.050	0.00061 -0.00621	0.21 -1.11	6.36 -8.02	0,311 -0,790
203	P649	N605	N601	0.000	P	130	46.7	0.100	-0.0021	-1.40	-29.97	-1.612
204	P651	N631	N638	0.000	P	90	65.0	0.075	0.00146	0.29	4.39	0.329
205	P656	N641	N638	0.000	Р	90	18.7	0.075	0.00004	0.00	0.01	0.009
206	P658	N614	N638	0.000	P	90	17.2	0.050	-0.00048	-0.07	-3.99	-0.242
207	P659	N29	N631 N646	0.000	P P	130 90	27.0	0.100	0.00028	0.00	0.03	0.036
208	P663 P665	N645 N646	N649	0.000	<del></del>	130	101.5 107.1	0.050	-0.00114 0.00387	-2.04 0.36	-20.06 3.34	-0.579 0.492
210	P667	N646	N650	0.000	P	130	94.0	0.100	-0.00634	-0.78	-8.33	-0.807
211	P668	N648	N600	0.000	Р	130	84.8	0,100	-0.00908	-1.37	-16.21	1.156
212	P669	N550		0.000	Р	130	36.9	0.100	-0.00634	-0.31	-8.33	-0.807
213	P671	N652	N537	0.000	P	90	114.5	0.075	0.00128	0.39	3.45	0.289
214	P674 P676	N653 N653	N532 N654	0.000	P	130 130	18.0 49.7	0.100	-0.00470 0.00470	-0.09 0.24	-4,79 4,79	-0.598 0.598
216	P677	N654	N649	0.000	<u> </u>	130	31.0	0.100	0.00470	0.15	4.79	0.598
217	P678	N655	N645	0.000	P	90	131.5	0.050	0.00073	1.17	8.90	0.373
218	P685	N665		0.000	P .	90	27.1	0.050	-0.00114	-0.55	-20.17	-0.581
219	P693	N609		0.000	P	90	77.2	0.050	0.00000	0.00	0.00	0.000
220 221	P705 P706	N534		0.000		130	104.3 184.8	0.050 0.160	0,00151 -0.01640	3.54 -0.91	33.99 -4.90	0.771 -0.816
222	P711	N687	N688	0.000	P -	130	51.2	0.075	0.00034	0.01	0.15	0.077
223	P719	N688		0.000	Р	90	84.3	0.050	0.00000	0.00	0.00	0.000
224	P723	N688		0.000	Р	90	30.9	0.075	0.00034	0.01	0.30	0.077
225 226	P730 P733	N703		0.000	P	90		0.050	0.00000	0.00	0.00 8.01	0.000
227	P734	N706		0.000	P	90	33.3	0.050	0.00000	0.00	0.00	0.000
228	P741	N712		0.000	P	90			0.00034	0.02	0.30	0.077
229	P750				Р	90			0.00149	0.25	4.60	0.338
230	P751	N681			P	90			0.00000	0.00	0.00	0.000
231	P754	N724		0.000	P	130			0.00265 -0.00222	0.19 -0.09	1.66 -1.20	0.337 -0.283
233	P756				<del>│</del>	90			-0.00222	-9.37	-113.77	-1.481
234	P757	N677			† p	90			0.00251	1.61	33.99	0.771
235	P758	N72	N726	0.000	Р	130	69.2	0.100	-0.00222	-0.08	-1.20	-0.283
236	P759				P	130			-0.00736	-0.60	-10.99	-0.937
237	P760				P	130			-0.00222	-0.07	-1.20	-0.283
238 239	P763				P	130			0.00265	0.16 0.07	1.66 1.90	0.337
239	P765				- P	130			0.00285	0.07	1.46	0.406
241	P766				<del>  </del>	130			0.00285	0.12	1.90	0.363
242	P767	N679	N676	0.000	Р	130	77.6	0.100	0.00337	0.20	2.60	0.430
243	P782				Р	90			0.00021	0.07	0.86	0.106
244	P789				P	90			0,00053 -0,00277	0.12	0.68	0.120
245 246	P800				+ P-	90			0.00000	-2.64 0.00	-14.41 0.00	0.626
245	P802	·			F	90			-0.00039	-0.44	-2.72	
248	P803				P_	130			-0.00781	-0.20	-1.70	-0.442
249	P804	N76	9 N767		P	130			-0.00781	-0.13	-1.70	
250	P806				P	90			0.00000	0.00	0.00	
251 252	P807	+			P	130			0.00000	0.00	0.00 5.38	
252	P820				<del>                                     </del>	13			-0.00300	-0.04	-0.34	
254	P822		6 N797	0.000	P	130	53.4	0.100	-0.00125	-0.02	-0.42	-0.160
255	P824				Р	130			-0.00112	-0.02	-0.34	
256	P82				P	13			0.00095	0.05	0.25	
257 258	P83				<del>                                     </del>	13						
259	P83				P	13				-0.04		
260	P83	7 N81	0 N81	0.000	P	9	0 94.7	0.050			0.07	
261	P83	9 N81	4 N815	0.000	P	13	0 92.7	0.150	-0.00592	-0.09	-1.02	-0.335

Table 3C-3 Pipe Data (4/10)

Tab	<u>le 3C</u>	-3 Pip	e Data			(4/1	0)					
No	Pipe No.	From Node No.	To Node No.	Demand (m³/s)	Type (P- Pipe V-Valve)	C Value	Length, m	Diameter, m	Flow rate (m³/s)	Head Loss, m	Friction Gradient, m/km	Velocity, m/s
262	P840	N816	N817	0.000	P	90	125.9	0.075	0.00000	0.00	0.00	0.000
263	P843 P845	N822	N823	0.000	P	130	33.0	0,150	-0.01911	-0.29	-8.91	-1.081
264 265	P851	N837	N827 N835	0.000	P	90 120	135.4	0.075	0.00000	0.00	0.00	0.000
266	P852	N838	N837	0.000	<del>-</del> -	120	82.0 142.3	0.300	-0.01776 -0.03531	-0.03 -0.38	-0.31 -2.67	-0.251 -0.719
267	P860	N844	N10	0.000	P	130	94.2	0.100	-0.00090	-0.02	~0.23	-0.115
268	P862	N846	N847	0.000	Р	130	61.1	0.100	0.00179	0.05	0.81	0.228
269	P864	N847	N848	0.000	P	130	89.3	0,100	0.00179	0.07	0.81	0.228
270 271	P865 P866	N849 N848	N844 N849	0.000	P	130 130	53.0	0,100	0.00179	0.04	0.81	0.228
272	P870	N852	N846	0.000	P -	130	25.3 66.6	0.100	0.00179 -0.00258	0.02 -0.11	0.81 -1.58	0.228
273	P873	N855	N856	0.000	P	130	151.0	0.100	0.00130	0.07	0.44	0.165
274	P879	N855	N854	0.000	Φ	130	39.3	0.100	0.00010	0.00	0.00	0.013
275	P888 P889	N823	N862 N863	0.000	P	90	77.7	0.075	0.00051	0.05	0.64	0.117
276 277	P891	N823 N869	N870	0.000	P	90	19.4 103.8	0.050	0.00000	0.00	0.00 5.38	0.000 0.637
278	P895	N869	N829	0.000	- <del>-</del> -	120	56.0	0.250	-0.03269	-0.13	-2.32	-0.666
279	P903	N879	N877	0.000	Р	130	59.2	0.100	-0.00294	-0.14	-2.01	-0.375
280	P906	N880	N881	0.000	Р	90	35,1	0.050	0.00094	0.49	14.09	0.479
281 282	P916 P917	N892 N894	N893 N892	0.000	P	90	100.2	0.075	-0.00018	-0.01	-0.09	-0.040
283	P939	N816	N916	0.000		130	142.3 114.7	0.075	-0.00273 -0.00753	-2.00 -0.18	-14.09 -1.59	-0.619
284	P940	N915	N916	0.000	P P	130	12.4	0.100	0.00383	0.04	3.28	-0.426 0.488
285	P943	N918	N822	0.000	P	130	135.2	0,150	-0.01879	-1.17	-8.63	-1.063
286	P964	N935	N933	0.000	Р	90	147.6	0.050	0.00000	0.00	0.00	0.000
287	P968	N936	N931	0.000	P	90	100.2	0.075	-0.00018	-0.01	-0.09	-0.040
288 289	P969	N925 N936	N931 N938	0.000	P	90	16.0 71.4	0.075	0.00000	0.03	0.00	0.199
290	P971	N939	N940	0.000	P	90	49.2	0.050	0.00000	0.00	0.00	0.000
291	P972	N939	N941	0.000	P	90	41.9	0.050	0.00000	0.00	0.00	0.000
292	P974	N893	N935	0.000	Р	90	80.3	0.050	0.00000	0.00	0.00	0.000
293 294	P975	N942 N943	N762 N942	0.000	P	90 90	204.6	0.050	0.00003	0.01	0.03	0.017
295	P979	N762	N945	0.000		90	106.3 60.9	0.050	0.00003	0.00 -0.86	-14.09	0.017 -0.619
296	P980	N894	N946	0.000	P	90	121.2	0.050	0.00000	0.00	0.00	0.000
297	P981	N945	N947	0.000	Р	90	94.8	0.050	0.00000	0.00	0.00	0.000
298	P982	N945	N894	0.000	P	90	39.6	0.075	-0.00273	-0.56	-14.09	-0.619
299 300	P984 P986	N950	N890 N953	0.000	P	130	92.0	0.100	0.00063	0.01	0.12	0.081
301	P996	N952 N961	N962	0.000	<del>-</del>	130 90	86.7 73.4	0.150	-0.01312 0.00000	-0.39 0.00	0.00	-0.742 0.000
302	P998	N965	N966	0.000	P	90	69.3	0.075	0.00000	0.00	0.00	0.000
303	P1000	V890	N961	0.000	Р	90	89.7	0.075	0.00000	0.00	0.00	0.000
304	P1001	N965	N968	0.000	Р	90	53.2	0.075	0.00000	0.00	0.00	0.000
305 306	P1002 P1003	N963 N961	N965 N963	0.000	P	90	34.2	0.075	0.00000	0.00	0.00	0.000
307	P1005	N970	N969	0.000	P	130	36.6 45.6	0.100	0.00000	0.00	1.19	0.282
308	P1015	N978	N952	0.000	P	130	76.2	0.150	-0.01335	-0.35	-4.59	-0.755
309	P1021	N983	N984	0.000	Р	90	69.7	0.050	-0.00064	-0.48	-6.93	-0.326
310	P1024	N989	N990	0.000	P	90	54.4	0.075	-0.00068	-0.06	-1.07	-0.154
311 312	P1026 P1027	N991 N992	N992 N950	0.000	- P -	130	68.6 72.1	0.100	-0.00004 0.00063	0.00	0.00	-0.006 0.081
313	P1028	N992	N989	0.000			17.1	0.075	-0,00068	-0.02	-1.07	-0.154
314	P1029	N990	N885	0.000	P	90	16.3	0.075	-0.00068	-0.02	-1.07	-0.154
315	P1030	N892	N991	0.000	Р.	130	10.9	0.100	0.00108	0.00	0.32	0.137
316	P1033	N994	N982	0.000	P	130	85.9	0.100	0,00238	0.12	1.36	0.303
317 318	P1034 P1035	N982 N987	N987 N994	0.000		90	89.8	0.075	-0.00078 0.00035	-0.12 0.01	-1.38 0.31	-0.176 0.078
319	P1035	N982	N948	0.000	<del></del>	90	66,4	0.075	0.00333	0.63	9.56	0.502
320	P1044	N983	N985	0.000	P	130	77.9	0.100	-0.00262	-0.13	-1.63	-0.334
321	P1045	N766	N763	0.000	P	90	53.1	0.050	-0.00039	-0.14	-2.72	-0.197
322 323	P1048 P1049	N1000 N1001	N1001 N1002	0.000	P	90	39.5 177.6	0.075	0.00341	0.84	21.21 0.00	0.772
323	P1050	N1001	N1002	0.000	- <del>-</del>	130	33.0	0.050	-0.00481	-0.02	-0.69	-0.272
325	P1053	N1008	N1009	0.000	P	90	191.2	0.075	0.00049	0.11	0.58	0.110
326	P1057	N1015	N1014	0.000	_ P	90	240.0	0.050	-0.00014	-0.10	-0.42	-0.072
327	P1058	N1014	N1011	0.000	P	90	89.9	0.075	0.00261	1.16	12.95	0.591
328 329	P1063 P1064	N1021 N1023	N1022 N1024	0.000	Р -	130	32.0 135.0	0.050	-0.00031 -0.00132	-0.06 -0.06	-1.84 -0.46	-0.159 -0.158
330	P1070	N1028	N1027	0.000	<del></del>	130	59.7	0.100	0.00132	0.03	0.46	0.168
331	P1071	N1028	N1023	0.000	. Р	130	79.5	0.100	-0.00132	-0.04	-0.46	-0.168
332	P1073	N1022	N1029	0.000	Р	90	71.2	0,050	-0,00031	-0.13	-1.84	-0.159
333	P1074	N1018	N1030	0.000	<u>P</u>	90	134.7	0.050	0.00000	0.00	0.00	0.000
334 335	P1075 P1084	N1018 N1040	N1031 N1016	0.000	P P	90	73.2 342.5	0.050 0.050	0.00078	0.74 2.10	10.09 6.15	0.400
336	P1085	N1019	N1041	0.000	<del> </del>	90	64.3	0.050	0.00060	0.40	6.15	0.306
337	P1086	N1041	N1040	0.000	Р	90	57.7	0.050	0.00060	0.35	6.15	0.306
338	P1088	N1043	N1021	0.000	Р	90	23.6	0.050	-0.00031	-0.04	-1.84	-0.159
339	P1093	N1001	N1016	0.000	P	90	164.0	0.075	0.00053	0,11	0.68	0.121
340 341	P1095 P1096	N1048 N1050	N1049 N1048	0.000	P	90	139.9 79.6	0.050	-0.00000 -0.00014	-0.03	0.00 -0.42	-0.000 -0.072
342	P1098	N1050	N1048	0.000		90	30.7	0.030	-0.00164	-0.03	-5.49	-0.372
343	P1103	N1015	N1048	0,000	P P	90	112.1	0.050	0.00014	0.05	0.42	0.072
344	P1104	N1056	N1057	0.000	Р	130	83.7	0.150	-0.00762	-0.14	-1.63	-0.431
345	P1105	N1058	N1059	0.000	P	90	268.7	0.050	-0.00017 -0.00515	-0.17	-0.62 -0.79	-0.089 -0.291
346 347	P1106 P1108	N768 N1063	N1060 N1064	0,000		130 90	162.0 168.5	0.150	0.00000	-0.13 0.00	0.00	0.000
348	P1111	N1069	N1070	0.000	- <u>- i</u>	90	169.8	0.050	0.00000	0.00	0.00	0.000

Table 3C-3 Pipe Data (5/10)Type Eriction Demand Flow rate From Diameter Head Velocity, Pipe No (P- Pipe C Value Length, m Gradient Node No (m³/s) (m<sup>3</sup>/s) Loss, m ពា m/s v-Valve m/km 0.000 349 P1112 N107 0.038 0.00015 0.10 0,128 1.69 350 P1113 N1057 N107 0.000 P 130 181.7 0.150 -0.00762 -0,30 -0.431 351 P1116 N1075 N1063 0.000 130 124.9 0.150 -0.00886 -0.27 -2 15 -0.502 P N1086 N814 0.000 130 70.9 0.150 -0.07 -0.00592 -1.02 -0.335 p 353 P1135 N1063 N1089 0.000 90 0.00058 1,77 82.0 0.038 21.63 0,507 354 P1139 N1091 N1093 0.000 90 156.9 0.050 0.00060 0.97 0,306 6.17 355 P1140 N1003 90 N1094 0.000 151.1 0.00034 0.075 0.04 0.30 0.077 P1141 N1095 p 356 N1074 0.000 90 105.9 0.038 0.00000 0.00 0.00 0.000 0.075 357 P1142 N1091 N1094 0.000 Þ 90 41.0 0.00034 0.01 0.077 0.30 358 P1144 N1096 0.000 130 N1071 39.4 0.150 -0.00007 0.00 0.00 -0.004 P1146 359 130 -0.10 0.000 46.3 0.150 -0.00886 -0.502 -2.15 -2.15 360 P1148 N1098 N107 0.000 P 130 35.5 0.150 -0.00886 -0.08 P1149 N1097 0.00061 0.06 361 N1096 0.000 90 67.6 0.075 0.87 0 137 P1153 0.000 N1070 N1102 45.7 0.050 0.00 0.000 363 P1154 N1103 N1104 0.000 Þ 90 75.4 0.038 0.00015 0.13 1.69 0.128 P1157 0.23 364 N1105 N3103 0.000 90 138.5 0.038 0.00015 1.69 0.128 P 90 73.6 N1072 N1108 0.000 0.038 0.00015 1.69 0.128 366 367 P1162 N768 N1058 0.000 90 149.2 0.050 -0.00017 -0.09 -0.62 P1163 N1002 N1108 000 90 89 1 0.050 0.00000 0.00 0.00 0.000 0.150 P1165 N1111 0.000 130 -0.00745 54.6 -0.09 -1.56 -0.422 369 P1166 N1059 N1056 O.DOO P 130 88.8 0.150 -0.00762 -0.14 -0.431 -1.63 P1167 370 N1112 N1113 0.000 130 155.1 0.100 0.00230 0.20 1.28 0.293 P1168 N111 0.000 371 N1111 130 17.0 0.100 0.00230 0.02 1.28 0.293 372 D1176 N1116 0.000 P 130 0.13 1,28 N111 0.100 0.00230 0.293 373 P1180 N1122 N1123 0.000 90 63.3 0.075 -0.00129 -0.22 -0.291 P1181 374 N1122 N1124 0.000 90 131.1 0.075 0.00129 0.46 3.49 0.291 P1183 N1128 0.000 130 366.4 0.100 0.00631 3.02 2.47 8.26 0.803 376 P1188 N1137 N1138 0.000 P 130 380.4 0.100 0.00554 0.705 377 P1189 N1137 N1139 0.000 90 154.7 0.050 0.00206 9.28 60.03 1.048 2.91 2.20 P1190 p 235.5 378 N1140 0.000 90 0.050 0.00088 12.36 0.446 P1191 P1193 379 N1142 N1140 0.000 P 130 115.7 0.100 0.00991 19.05 1.262 0.000 380 N1145 N1146 90 46.4 0.050 -0,00038 -0,12 -263 -0.193 ò 0.050 381 N1144 N1147 0.000 40.8 0.00000 0.00 0.00 0.000 382 P1195 N760 N1148 0.000 Ď 130.6 0.050 -0.00036 -0,31 -0.183 26.6 87.1 -0.00084 0.00045 -0.01 0.01 383 P1196 N760 N776 0.000 130 0.100 -0.20 -0.107 P1197 0.000 P N5 N760 130 0.100 0.06 0.058 385 P1199 N26 N1145 0.000 0 35.4 -0.00061 -0.310 9 -0.22 -6.31 N1148 ē -2.38 386 P1200 N26 0.000 90 41.5 0.050 -0.00036 -0.10 -0.183 ē 387 N1153 N1152 0.000 90 P1206 113.7 -0.00011 0.038 -0.11 -0.94 -0.093 P1207 0.000 P 0.100 N15 N24 130 16.0 0.00231 0.02 1.29 0.294 P1208 P1209 389 N24 N1153 0.000 Ē 90 41.8 0.038 -0.00011 -0.04 -0.94 -0.093 N1146 90 -0.14 0.04 390 N24 0.000 54.6 0.050 -0.00038 -2.63 -0.193 0.00012 0.000 32.6 0.038 1.18 0.105 392 P1213 N1140 N1151 0.000 P 130 55.0 0.100 0.00579 0.39 7.05 P1214 393 N1137 N761 0.000 90 342.9 0.075 0.00283 5.15 15.03 0.641 N1137 N1142 0.000 130 178.7 0.100 0.00991 3.40 19.05 1.262 395 P1216 N1141 N1156 0.000 P 130 62.6 157.9 0.100 -0.00214 -0.07 396 P1220 N1158 N1160 0.000 130 0.100 -0.00214 -0.18 -1 12 -0.272 0.000 -0.47 N1162 N1163 130 172.5 0,100 -0.00348 -0.44321.3 72.7 0.006 398 P1224 N1164 N1165 0.000 P 130 130 0.150 0.00010 0.00 0.00 P1225 399 N1166 N1164 0.000 0.150 0.00010 0.00 0.00 0.006 0.000 Р 400 P1226 N1141 N1167 90 109.9 0.050 0.00030 0.18 1.66 0.151 P1227 P 401 N1166 N1162 0.000 90 93.8 0.050 -0.00216 -6.14 65.47 -1.098 402 N1168 N1139 0.000 69.2 0.075 0.00000 0,00 0.00 0.000 P P1229 0.000 N1166 -0.00206 N1139 93.8 0.050 403 -5.63 -60.03 -1.048 P1230 0.000 Þ 0.07 404 N1167 N1162 0.050 0.00030 1.66 0.151 p 0.00 405 P1232 N1165 N1169 0.000 130 47 7 0.100 0.00010 0.00 0.013 P1235 N1172 N1177 0.00000 406 N1171 0.000 90 76.4 0.075 0.00 0.00 0.000 0.000 P1238 105.5 407 N1176 90 0.050 0.00000 0.00 0.00 0.000 1.51 408 P1239 N1178 N1179 0.000 ë 90 188.5 0.075 0.00201 0.455 7,99 P1240 0.075 409 N1176 N1123 0.000 90 85.3 0.00245 0.99 11.55 0.556 N765 P1241 N1180 0.000 90 191.4 0.075 -0.00123 -0.61 410 -3.21 -0.278 411 P1242 N1178 N1181 0.000 P 130 98.1 -0.00203 -0.10 -1.02 -0.259 0.100 412 P1244 N764 N773 0.000 9( 39.0 0.050 0.00000 0.00 0.00 0.000 P1245 P N1138 N1183 0.000 130 0.100 0.00326 0.13 413 2.44 0.416 414 P1250 N1183 N1187 0.000 Þ 9 27.1 0.075 -0.00123 -0.09 -3.21 -0.278 415 P1253 N1181 N1183 0.000 P 130 76.3 0.100 -0.00203 -0.08 -1 02 -0.259 P1254 N1172 N1189 0.000 42.0 0.00000 0.00 416 0.050 0.00 0.000 P1255 N1181 N1172 0.000 P 90 66.9 0.075 0.00000 0.00 0,00 0.000 418 P1258 N765 N771 0.000 90 76.5 0.050 0.00038 0.20 2.60 1.74 0.192 130 P P1260 N1127 N1178 244.4 0.100 419 0.00272 0.43 0.345 P1261 N1191 N1127 0.000 P 112 0.050 0.00038 0.29 2.60 0.192 420 P1262 N1127 0.000 P 90 116.9 0.075 0.00245 1.35 11.55 0.556 N1176 Р 0.075 0.00 422 P1272 N1171 N1200 0.000 90 74.1 0.00000 0.00 0.000 117.5 0.075 0.000 0.00129 P1273 0.41 3.49 0.291 423 N1124 N1201 P128 N1208 0.000 P 130 220.4 0.150 0.00070 0.00 0.02 0.000 425 P1282 N1209 N1210 90 264.8 0.050 0.00000 0.00 0.00 0.000 0.000 90 119. 0.00052 0.075 0.08 0.66 0.118 426 N1211 N1212 P1283 427 P1285 N1214 N1215 0.000 Р 130 178.7 0.150 -0.00183 -0.02 -0.12 -0.104 -0.00015 -0.00348 100.7 73.7 0.050 -0.05 -0.20 428 P1286 N 13 N1216 0.000 90 -0.47-0.076 N1132 -0.443 P1294 N1215 0.000 Б 130 0.100 2.75 429 430 P1295 N1215 N1207 0.000 130 159 É 0.150 0.00070 0.00 0.02 0.039 0.075 N1226 164.4 0.00000 431 P1303 N1224 0.000 90 0.00 0.00 0.000 432 P1304 N122 N1224 0.000 P 130 212.6 0.150 0.00435 0.12 0.246 433 P1305 N1228 N1227 0.000 P 90 113.8 0.075 0.00129 0.40 3.49 0.291

130

74.4 173.7 0.100

0.100

0.00052

-0.00631

0.01

0.08

-8.26

0.067

-0.803

Þ

434

435

P1308

P1313

N1229

N1238

N1230

N1128

0.000

0.000

Table 3C-3 Pipe Data (6/10)Type (P- Pipe Ediction Velocity From Demand Diameter, Flow rate Head Pipe No C Value Length, m Gradient Node No (m3/s) Node No m (m<sup>3</sup>/s) Loss, m m/s V-Valve m/km 436 P1315 N1240 0.000 0.050 0.00000 0.00 0.000 ٩n 43.6 n co P1316 N1240 437 N1241 0.000 0.000 0.050 0.00000 90 53.7 0.00 0.00 N1128 438 P1317 0.000 P 90 58.0 0.050 0.00000 0.00 0.00 0.000 P 430 P1326 N1122 N1249 0.000 90 141.2 0.050 0.00000 0.00 0.00 0.000 P1333 N1253 N1234 440 0.000 130 439 8 0.100 0.00000 O DO 0.00 0.000 P133 0.067 0.000 41.9 0.00052 0.00 130 0,100 0.08 442 P1340 N1230 N1260 0.000 P 129.8 0.100 0.00052 0.01 0.08 0.067 443 P1341 N1260 N1257 0.000 130 69.9 0.100 0.00052 0.01 0.08 0.067 P1342 Ė N126 0.000 90 0.00000 0.000 36.1 0.050 0.00 0.00 445 P1343 N1261 N1263 0.000 Б 0.050 -0.00052 -0.266 90 P P2000 44F N98 N1500 0.000 120 10.0 0.50 -0.57028 -0.16 -15.71 -2.904 P1353 P 0.000 0.154 N36 90 28.2 0.08 0.00068 0.03 1.07 448 P1354 N1179 N1204 <u>-</u> 0.455 0.000 45.8 0.08 0.00201 0.37 7.99 P961\_2 449 N1300 N931 0.000 P 90 78.0 0.05 -0.00087 -0.96 -12 33 -0 445 N941 450 N1300 0.000 90 493 0.05 0.00000 0.00 0.00 0.000 P1357 è 451 0.000 445.0 0.00318 1.04 130 0.10 2.32 0.404 1.354 452 P2100 N98 N312 0.000 120 185.0 0.50 0.26582 0.71 3.83 è 453 P2103 N354 N1301 0.000 120 147.0 0.40 0.13326 0.47 3 16 1.061 P2115 454 N311 N108 0.000 0.01121 130 224.0 0.10 5.36 23,94 1,428 455 P2117 N119 0.000 P 130 157.0 0.10 -0.00090 -0.04 -0.23 -0.115 456 P2118 N119 N128 0.000 P 130 418.0 0.10 0.00143 0.22 0.53 0.182 45 P2119 N312 -0.00757 N311 0,000 13 34.0 0.10 -11.58 -0.964 458 P2120 N852 0.000 Ö 130 300.0 0.10 0.00040 0.05 0.051 0.02 450 P2121 N354 N93 0.000 120 850.0 0.30 0.01280 0,17 0.181 P2122 460 N931 N892 0.000 120 481.0 0.30 0.00850 0.04 0.08 0.120 461 P2128 N1215 0.000 130 0.00206 1.34 1,04 0.263 1283.0 0.10 462 P2130 N312 0.000 0 430.0 0.30 0.07220 1.78 4.13 1.022 N29 120 463 P2131 N297 N265 0.000 120 866.0 0.30 0.06065 2.59 2.99 0.858 P2138 N407 N42 0.000 0.70 0.621 130 306.0 0.20 0.01951 2.28 465 P2144 N712 N679 0.000 0 130 850.0 0.20 0.02908 4.06 0.926 Þ 466 P2145 N142 N1310 0.000 130 178.0 0.10 -0.00435 -0.74 -4.16 -0.554 P2146 N373 467 N500 0.000 130 614 0 0.20 -0.02359 -1 99 -3 24 -0.751 468 P2147 N373 N750 0.000 646.0 0.00650 0.78 0.368 130 0.15 1.21

Table 3C-3 Pipe Data (7/10)Type (P- Pipe Eriction Demand Diameter Flow rate Velocity, Head Pipe No. C Value Length, m Gradient Node No Node No  $(m^3/s)$ (m3/s) Loss, m m/s m V-Valve m/km N16 N1310 0.000 0.10 0.0030 0,391 523 P2220 2.19 2.65 130 502.0 1.10 524 0.000 130 440.0 0.10 0.00341 0.434 P 525 P2300 N153 N63 0.000 130 823.0 0.10 0.00082 0.16 0.19 0.105 P 526 P2301 N427 N397 0.000 130 305.0 0.20 0.01445 0.40 0.460 P2303 0.000 N1071 130 569.0 0.10 0.00248 1.47 0.84 0.316 P 528 P2304 N312 N1307 0.000 120 230.2 0.40 0.15499 0.96 1.233 4.18 101\_2\_2 P2305 N354 0.15353 1.04 529 N1313 0.000 120 254.0 0.404.11 1,222 N1314 0,000 Þ 130 751.0 0.10 0.00146 0.41 0.55 0.186 P 531 P2306 N199 N170 0.000 130 491.4 0.20 0.02256 1.47 2.99 0.718 P2307 130 532 N984 N1315 0.000 885.0 0.15 0.00472 0.59 0.67 0,267 N750 533 P4000 N748 0.000 130 0.15 0.15 -0.00049 229.0 0.00 -0.01 -0.028 -0.00856 534 P4001 N748 0.000 P 130 -0.57 0.484 N378 285.0 -2.02 24002 130 90 535 N750 N479 0.000 611.0 0.10 0.00331 1.53 2.50 0.421 536 P4003 N479 0,000 218.0 0.05 0.00113 4.29 19.69 D.574 0.00218 537 P4004 N465 N467 0.000 90 395.0 3.66 9.27 0,493 P 0.559 538 P4005 N375 N47 0.000 304.0 174.0 0.05 0.00110 5.70 18.76 90 90 N477 P4006 N487 0.000 0.05 -0.00110 -3.27 -18.77 -0.559 540 P400 N494 N48 0,000 Ŕ 199.0 0.05 0.00110 3.74 18.77 0.559 p 90 90 541 PADDS N376 N49 0.000 136.8 0.05 -0.00051 -0.62 -4.51 -0.259 P4009 204.0 -0.00161 0.00145 N494 N459 0,000 -1.07 0.08 -5.27 -0.353 543 P4010 N374 N75 0.000 Ø 90 307.0 0.08 0.329 544 P4011 N758 90 7.34 N755 0,000 288.0 0.08 0.00377 25,50 0.852 P4012 Þ -0.00618 545 N459 N52 0.000 130 428.2 0.15 -0.47 -1.10 -0.350 P4013 180.0 546 N526 N497 0,000 9 130 -0.00531 -0.301 0.15 -0.15 -0.83 1.84 547 N497 N50 0.000 90 90 430.0 0.08 0.00091 0,79 0.206 þ 548 P4015 N516 0.000 N499 402.0 0.05 0.00035 0.92 2.30 0.180 549 P4016 N43 0.000 P 90 0.72 N518 488.0 0.08 0.00081 1.48 0.183 0.05 550 P401 N517 N393 0.000 90 156.0 0.00049 0.67 4.27 0.251 P4018 551 N393 N450 90 0.05 0.000 221.D 0.00049 0.94 4 27 0.251 P4019 N450 ĕ 90 552 N431 0.000 110.3 0.05 -0.00049 -0.47 -4.27 -0.251 553 554 P4020 N433 N381 0.000 ō 90 266.0 0.05 0.00058 1.52 5.71 0.294 N431 N38 0.000 90 86.4 0.05 0.00049 0.37 4.27 0.251 555 P4022 N517 N69 0.000 90 238.0 -0.00054 -1.20 -5.04 -0.275 0.05 90 130 90 90 556 557 P402 N692 N698 0,000 P 265.0 0.05 -0.00054 -1,34 -5,04 P4024 N522 N712 -1.52 0.000 386.0 0.15 -0.01230 -3.95 -0.696 P4025 N68 0.000 259.0 0.08 -0.00034 -0.08 -0.077 -0.30 559 P4026 N535 N698 0.000 ě 200.8 0.05 -0.00109 -3.71 18.49 -0.555 P4027 N579 560 N535 0,000 90 113.0 0.05 0.00109 2.09 18.49 0.555 561 P4028 N579 N585 0.000 90 103.0 0.05 0.00109 1.90 0.555 18.49 562 563 P4029 P4030 N580 N585 0.000 P 90 130 90.0 0.05 -0.00109 -1.66 18.49 -0.555 N712 N711 225.0 0.000 0.15 -0.01491 -1.27 -5 63 -0.844 P4031 N711 N678 0.000 130 335.0 0.15 -0.01491 -1.89 -5.63 -0.844 P4032 P4033 P -0.265 565 N681 N676 0.000 90 201.0 -0.00052 0.05 -0.95 0.000 90 566 N681 N706 382.0 0.08 0.00201 3.06 8.01 0.456 P4034 N702 0.000 N696 0.00000 567 90 72.0 0.05 0.00 0.00 0.000 568 P4035 N707 N53 0.000 P 90 0.08 0.00024 0.03 0.053 569 N4036 N736 N744 0.000 130 484.0 0.15 0.00718 0.71 1 46 0.406 P4037 N734 N745 0.000 570 439.0 90 0.05 0.00021 0.38 68.0 0.106 0.00739 571 P4038 N744 N1216 0.000 D 295.0 0.45 0.418 P -0.16 0.09 572 P4039 N530 N12 0.000 90 340.0 0.05 -0.00015 -0.47 -0.076 N1214 130 P4040 N1216 0.000 201.0 0.15 0.00373 0.43 0.211 574 P4041 N1215 N1211 0.000 P 130 350.0 0.00052 0.03 0.08 0.067 P4042 195.0 575 N1211 N1209 0.000 90 0.05 0.00000 0.00 0.00 0.000 0.00 576 P4043 N1210 N1221 0.000 90 243.0 0.00000 0.00 0.05 0.000 577 P4044 N1208 N1224 0.000 P 130 472.0 0.15 -0.00435 -0,27 -0.58 -0.246 -0.05 -0.97 578 P4045 N1227 N1229 0.000 130 439.0 0.20 -0.00367 -0.10 -0.117 579 P4046 N1228 N1201 0.000 277.0 -0.00129 0.08 -3.49 -0.291 P4047 N1204 N1123 0.000 P 130 298.0 0.00191 0.04 0.108 P -0.00214 -0.00214 581 P4048 N1160 N1214 0.000 130 426.0 0.10 -0.48 -1.12 -0.272 N1156 N1158 215.0 P4049 0.000 582 130 0.10 -0.24 -1.12 -0.272 N1198 P4050 130 0.00010 583 229.0 0.00 0.00 0.006 584 P4051 N1229 N1246 0.000 P 130 257.0 0.20 -0.00419 -0.03 -0.13 -0.134 P4052 N1250 585 N1246 0.000 130 130 297.0 0.20 -0.00904 -0.16 -0.55 -0.288P405 N1250 0.000 162.0 0,20 -0.09 -0.00904 -0.55 -0.288 587 P4054 N1238 N1245 0.000 130 289.0 0.10 0.00229 0.37 1.27 0.292 130 P4055 N1234 588 N1245 0.000 410.0 0.10 0.00229 0.52 1.27 0.292 589 P4056 N1246 N1234 0.000 90 720.0 0.08 0.0006 0.63 0.88 0.138 159.0 187.0 1,57 0,51 590 P4058 N655 NEŻO O DDO 90 0.05 0.00078 9.89 0.395 90 0.000 591 P4059 N670 N530 0.05 0.00039 2.75 0.198 0.00039 P4060 0.000 P 0.05 592 N656 103.3 0.28 0.197 593 P406 N656 N645 0.000 90 125.6 0,05 -0.00058 -0.69 -5.46 -0.287 0.000 594 P4062 N661 N656 P 9<u>0</u> 108.4 0.05 0.00036 0.25 2.35 0.182 0.05 595 0.000 140.0 P406 N665 N661 0.00075 1.28 0.380 596 P4064 N606 N66\* 0.000 P 90 230.3 0.08 0.00228 2,32 10.07 0.516 -2.27 2.81 -21.24 21.59 597 P4065 N665 N648 0.000 107.0 0.05 -0.00117 -0.598 1.350 598 0.000 130 0.10 P4066 N605 N606 130.0 0.01060 599 P406 N29 N609 0.000 Þ 90 127.0 0.05 0.00000 0,00 0.00 0.000 0.000 90 600 P4068 N601 N615 170.3 0.08 0.00396 4.76 27.94 0.896 P4069 0.000 0.00048 0.91 4.08 N61 90 222.8 0.05 0.245 601 602 P4070 N62 N613 0.000 90 245.0 0.05 0.00009 0.04 0.18 0.046 P407 N39 N630 0.000 90 249.0 0.05 0.00080 2.61 0.408 603 10.48 604 N629 0.000 P 108.0 0.05 0.00100 1.72 15.90 P 605 P4073 N27 N627 0.000 90 90.4 0.05 0.00100 1.44 15.90 0.511 -0.15 606 P4074 N1145 N1144 0.000 142.0 0.05 -0.00023 -1.04 -0.117 607 P4075 N1152 N1154 0.000 ρ 90 0.04 -0.00012 -0.09 -1.18 608 P4076 N1152 N1144 0.000 90 67.2 0.04 0.00023 0.27 3.94 0.202 0.000 N641 N24 -0.02 0.16 P4077 -0.00004

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Table 3C-3 Pipe Data (8/10)

No	Tab	le 3C	<u>-3 Pip</u>	e Data	1		(8/1	0)					
\$112   \$\text{PAPOP}   \$185   \$185   \$0.000   \$\text{P}\$   \$90   \$180   \$0.000   \$\text{Const.}\$   \$185   \$1.000   \$0.000   \$\text{P}\$   \$190   \$180   \$0.000   \$\text{Const.}\$   \$0.000   \$\text{P}\$   \$190   \$180   \$1.000   \$0.000   \$\text{Const.}\$   \$0.000   \$\text{Const.}\$   \$0.000   \$\text{P}\$   \$100   \$1250   \$0.000   \$\text{Const.}\$   \$\	No	Pipe No.				(P-Pipe	C Value	Length, m				Gradient,	
February									0.08	0.00348	2.95	21.99	0.787
F4981   Med   Ms   Ms   Ms   Ms   Ms   Ms   Ms   M													
Fall													
1515   P-0498   NSP   NSP   0000   P													
Section   Sect													
617   PAGRE   NASS   NASS   OCCO   P   90   1800   O.005   O.00014   O.01   O.06   O.005   O.005   O.00014   O.01   O.06   O.005   O.00014   O.01   O.00014   O.00													
1819   PAGES   NASS   NASS   0.000   P   90   1860   0.088   0.00014   0.011   0.068   0.0036   0.011   0.068   0.0036   0.011   0.068   0.0036   0.011   0.068   0.0036   0.011   0.068   0.0036   0.0													
649   P.4097   NS3   NS56   0.000   P   90   155.0   0.08   0.00014   0.03   2.50   0.245   0.000	618	P4086											
February							90	155.0					
1922   P4990   NAS6   NAS6   O.000   P   99   97.3   O.08   O.00177   O.24   2.50   O.245   O.235   P4992   NAS1   NAS6   O.000   P   90   300.0   O.000   O.00025												-2.50	
1925   19491   19491   1949													
EAC   PAPEZ   NASH   NASH   OLDON   P   SIS   SIS   AF7.0   O.10   OLDON   C.   ALST   S.   S.   O.85   C.													
656   P4098   N959   N959   N959   0.000   P   90   251.0   0.05   0.00118   0.538   271.44   0.901   0.650   P4098   N959   N959   N959   0.000   P   90   1167.0   0.08   0.00010   0.00   0.03   0.002   0.002   0.00010   0.00   0.03   0.002   0.002   0.00010   0.00   0.03   0.002   0.002   0.00010   0.00   0.03   0.002   0.002   0.00010   0.00   0.03   0.002   0.00010   0.00													
1505   1406													
PAGES   NASS													
February		P4095				Р Р							
PAGES   PAGES   NSFG   NSGS			N538	N652	0.000								
832   P4100   N556   N550   O.000   P   90   220.0   O.00   C.0000   O.02   O.09   O.022   O.000   O							130	115.0	0.10	-0.00294		-2.01	-0.374
SS2   P44107   NS58   NS53   0.000   P   90   175.0   0.05   0.00006   0.02   0.09   0.002													
S93   P4101   NSSS   NSSS   0.000   P   90   162.0   0.05   0.00008   0.02   -0.09   -0.09   -0.08   -0.0008   -0.00   -0.09   -0.00   -0.09   -0.00													
Sept													
S35													
S36   P4104   N891   N876   D000   P   90   343.0   D.05   D.00049   T.14   4.19   9.294     S37   P4105   N402   N402   D000   P   90   136.0   D.04   D.00000   D.00   D.00   D.00     S38   P4106   N402   N404   N404   D.000   P   90   195.0   D.05   D.00000   D.00   D.00   D.00     S40   P4107   N404   N404   D.000   P   90   195.0   D.05   D.00000   D.00   D.00   D.00     S41   P4108   N404   N404   D.000   P   90   94.0   D.05   D.00000   D.00   D.00   D.00   D.00     S41   P4109   N404   N406   D.000   P   90   94.0   D.05   D.00000   D.00													
S37   P4105   NA42   NA42   0.000   P   90   198.0   0.04   0.0000   0.00   0													
Sag   P4106   M430   M431   M430   M431   0.000   P   90   115.0   0.08   0.00091   0.29   1.50   0.184   639   P4107   M440   0.000   P   90   115.0   0.05   0.00000   0.00	637	P4105	N402	N442	0.000	Р	90						
639   P4107   M434   M440   0.000   P   90   115,0   0.05   0.00000   0.00   0.00   0.00   640   P4108   M419   M468   0.000   P   90   94,0   0.05   0.00000   0.00   0.00   0.00   641   P4108   M426   M470   M468   0.000   P   90   95,0   0.05   0.00000   0.00   0.00   0.00   642   P4110   M426   M428   0.000   P   90   175,0   0.08   0.00000   0.00   0.00   0.00   643   P4111   M420   M428   0.000   P   90   175,0   0.08   0.00000   0.01   0.10   0.001   644   P4112   N593   N502   0.000   P   90   195,5   0.08   0.00024   3-14   1-15   0.986   645   P4113   N594   N536   0.000   P   90   195,5   0.08   0.00024   3-14   1-15   0.486   646   P4113   N594   N536   0.000   P   90   195,5   0.08   0.00024   3-14   1-15   0.486   646   P4113   N594   N536   0.000   P   90   195,5   0.08   0.00024   3-14   1-15   0.486   647   P4115   N505   N462   0.000   P   90   150   0.05   0.00032   3-38   13,41   0.486   648   P4116   N472   M420   0.000   P   90   236,0   0.05   0.00094   3-13   3.83   0.356   648   P4117   N467   N472   0.000   P   90   236,0   0.05   0.00054   -13   5-66   0.275   640   P4117   N467   N472   0.000   P   90   234,0   0.05   0.00054   -13   5-66   0.275   650   P4118   N467   N471   0.000   P   90   151,0   0.05   0.00000   0.00   0.00   655   P4119   N469   M413   0.000   P   90   151,0   0.05   0.00000   0.00   0.00   655   P4120   N469   M417   0.050   P   90   88,0   0.05   0.00000   0.00   0.00   655   P4121   N412   N407   0.050   P   90   151,0   0.05   0.00000   0.00   0.00   655   P4121   N412   N407   0.050   P   90   151,0   0.05   0.00000   0.00   0.00   656   P4122   N418   N548   0.050   P   90   151,0   0.05   0.00000   0.00   0.00   656   P4122   N49   N548   0.050   P   90   151,0   0.05   0.00000   0.00   0.00   656   P4122   N56   N58   0.000   P   90   151,0   0.05   0.00000   0.00   0.00   657   P4128   N56   N58   0.000   P   90   151,0   0.05   0.00000   0.00   0.00   658   P4128   N56   N58   0.000   P   90   151,0   0.05   0.00000   0.00   0.00   658   P4128   N58								195.0	0.08	0.00081	0.29	1.50	0.184
641   P4109   N996   N419   0.000   P   90   96.0   0.05   0.00000   0.00   0.00   0.000   0													
S42   P4110   N426   N397   D.000   P   90   175.0   D.08   D.0076   D.23   1.31   D.171     S44   P4112   N503   N502   D.000   P   90   194.5   D.000   D.00213   D.181   D.171     S44   P4112   N503   N502   D.000   P   90   194.5   D.08   D.00224   S.14   D.151   D.272     S46   P4114   N400   N507   D.000   P   90   194.5   D.06   D.00224   S.14   D.151   D.968     S46   P4114   N400   N507   D.000   P   90   194.5   D.05   D.00022   S.13   S.14   D.151   D.968     S46   P4115   N505   N402   D.000   P   90   D.151   D.000   D.00229   S.13   S.14   D.151   D.968     S47   P4115   N505   N402   D.000   P   90   D.151   D.000   D.00229   S.13   S.1													
644   P4111   N420   N428   0.000   P   90   190   0.00213   0.18   1.11   0.271													
644   P4112   N503   N502   0.000   P   90   194.5   0.08   0.00294   3.14   -16.15   -0.966   646   P4114   N400   N507   0.000   P   90   1297   0.05   0.00002   3.23   3.291   0.757   0.757   0.000   0.00002   3.20   0.000													
646   P4113   N394   N398   0.000   P   90   297.1   0.05   0.00002   3.59   13.41   0.466   646   P4114   N400   N507   0.000   P   90   1160   0.05   0.00140   3.59   3.341   0.466   646   P4115   N505   N462   0.000   P   90   130   171.0   0.10   0.00279   0.31   1.38   0.366   0.68													
646   P4114   N400   N507   0.000   P   90   116.0   0.05   0.00149   3.82   23.91   0.757						a :							
648													
649   P4117   N467   N472   0.000   P   90   124.0   0.055   0.00054   0.683   5.06   0.0005	647	P4115	N505	N462	0.000		130						
650											-1.19	-5.06	-0.275
651   P4119   N404   N413   0.000   P   90   151.0   0.05   0.00000   0.00   0.00   0.000													
653													
654   P4121   N412   N407   0.000   P   90   305.0   0.05   0.00072   2.64   8.67   0.388   654   P4122   N87   N89   0.000   P   90   154.2   0.05   0.00072   1.60   8.67   0.368   655   P4123   N80   N84   0.000   P   90   173.0   0.05   0.00072   1.50   8.67   0.368   655   P4123   N86   N84   0.000   P   90   173.0   0.05   0.00072   1.50   8.67   0.368   656   P4124   N84   N84   0.000   P   90   115.7   0.05   0.00074   1.05   8.67   0.368   657   P4125   N86   N280   0.000   P   90   115.7   0.05   0.00074   1.05   9.07   0.377   658   P4126   N36   N288   0.000   P   90   151.0   0.05   0.00074   1.05   9.07   0.377   658   P4127   N260   N282   0.000   P   90   145.0   0.04   0.00074   5.05   34.83   0.656   660   P4128   N282   N256   0.000   P   90   60.0   0.05   0.00064   0.05   34.83   0.656   661   P4128   N282   N256   0.000   P   90   60.0   0.05   0.00064   0.05   4.99   0.273   662   P4130   N50   N265   0.000   P   130   215.0   0.15   0.0054   0.05   4.99   0.273   662   P4130   N50   N265   0.000   P   130   215.0   0.15   0.0054   0.05   0.0064   0.05   4.99   0.273   663   P4131   N283   N41   0.000   P   130   215.0   0.15   0.0074   0.17   0.47   0.170   0.664   P4132   N50   N59   0.000   P   130   215.0   0.15   0.0074   0.170   0.47   0.170   0.664   P4132   N30   N59   0.000   P   130   176.0   0.15   0.0078   0.06   1.23   0.287   0.665   P4133   N267   N265   0.000   P   130   176.0   0.15   0.0078   0.06   1.23   0.287   0.665   P4133   N267   N265   0.000   P   130   176.0   0.15   0.0078   0.06   1.23   0.287   0.665   P4133   N267   N265   0.000   P   130   176.0   0.15   0.0078   0.06   1.23   0.287   0.665   P4133   N267   N265   0.000   P   130   176.0   0.15   0.0078   0.06   0.0078   0.37   0.666   P4134   N272   N265   0.000   P   130   176.0   0.15   0.0078   0.06   0.0078   0.07													
654													
655         P4123         N80         N94         0.000         P         90         173.0         0.05         0.00072         1.50         8.67         0.388           656         P4124         N34         N94         0.000         P         90         115.7         0.05         0.00074         1.05         9.67         0.397           658         P4125         N36         N280         0.000         P         90         151.0         0.05         0.00007         0.00 <td></td>													
656   P4124   N34   N94   0.000   P   90   126.0   0.05   -0.00072   -1.09   -3.67   -0.358   657   P4125   N96   N280   0.000   P   90   15.7   0.05   0.000074   1.05   9.07   0.377   658   P4126   N36   N288   0.000   P   90   15.10   0.05   0.00000   0.00													
658					0.000	P	90						
669         P4127         NZ60         NZ82         0.000         P         90         145.0         0.04         0.00074         5.05         34.83         0.656           661         P4128         NZ82         NZ55         0.000         P         90         171.0         0.05         0.00054         0.30         4.99         0.273           661         P4139         NZ57         NS55         0.000         P         90         171.0         0.05         0.00054         0.88         4.99         0.273           662         P4130         N50         N265         0.000         P         130         215.0         0.15         -0.01287         0.92         4.29         0.728           663         P4131         NX83         N41         0.000         P         130         550.0         0.10         0.00738         0.06         1.23         0.287           665         P4133         NX867         NX265         0.000         P         130         175.0         0.10         0.00734         0.0         0.47         0.17           667         P4135         NX82         NX267         0.000         P         130         172.0         0.10											1.05	9.07	0.377
680   P4128   N282   N255   0.000   P   90   60.0   0.055   0.00054   0.85   4.99   0.273     681   P4129   N257   N555   0.000   P   90   171.0   0.05   0.00054   0.85   4.99   0.273     682   P4130   N50   N265   0.000   P   130   215.0   0.15   0.01287   0.92   4.29   0.728     683   P4131   N283   N41   0.000   P   130   232.0   0.10   0.00134   0.11   0.47   0.170     684   P4132   N50   N59   0.000   P   130   532.0   0.10   0.00134   0.11   0.47   0.170     685   P4132   N50   N59   0.000   P   130   176.0   0.15   0.00578   0.17   0.98   0.327     685   P4133   N267   N265   0.000   P   130   176.0   0.15   0.00578   0.17   0.98   0.327     686   P4134   N272   N263   0.000   P   130   176.0   0.15   0.00578   0.17   0.98   0.327     686   P4135   N262   N267   0.000   P   130   176.0   0.10   0.00134   0.06   0.47   0.170     687   P4135   N262   N267   0.000   P   130   132.0   0.10   0.00134   0.06   0.47   0.170     688   P4137   N291   N262   0.000   P   130   132.0   0.10   0.00134   0.06   0.47   0.170     689   P4137   N291   N262   0.000   P   130   132.0   0.10   0.00134   0.06   0.47   0.170     670   P4138   N207   N291   0.000   P   130   391.0   0.15   0.01226   0.50   3.92   0.694     671   P4139   N205   N289   0.000   P   130   397.0   0.10   0.00134   0.19   0.47   0.170     672   P4140   N296   N348   0.000   P   130   142.0   0.15   0.01226   0.50   3.92   0.694     671   P4139   N205   N295   0.000   P   130   142.0   0.15   0.01308   0.63   4.42   0.740     673   P4141   N328   N297   0.000   P   130   142.0   0.15   0.01308   0.63   4.42   0.740     674   P4142   N305   N295   0.000   P   130   142.0   0.15   0.01308   0.63   4.42   0.740     675   P4143   N307   N328   0.000   P   130   155.0   0.15   0.01308   0.63   4.42   0.740     676   P4144   N312   N307   0.000   P   130   155.0   0.15   0.01308   0.63   4.42   0.740     677   P4145   N100   N305   0.000   P   130   155.0   0.15   0.01308   0.69   4.42   0.740     688   P4146   N325   N331   0.000   P   90   140.0   0.00													
661													
662   P4130   N50   N265   0.000   P   130   215.0   0.15   0.01287   0.52   4.29   0.728   663   P4131   N263   N41   0.000   P   130   232.0   0.10   0.00134   0.11   0.47   0.170   664   P4132   N50   N59   0.000   P   130   50.0   0.10   0.00225   0.06   1.23   0.237   685   P4133   N267   N265   0.000   P   130   176.0   0.15   0.00578   0.17   0.98   0.327   686   P4134   N272   N263   0.000   P   130   176.0   0.15   0.00578   0.17   0.98   0.327   686   P4134   N272   N263   0.000   P   130   175.0   0.10   0.00134   0.08   0.47   0.170   687   P4135   N262   N267   0.000   P   130   64.0   0.15   0.01226   0.25   3.92   0.684   688   P4136   N289   N255   0.000   P   130   132.0   0.10   0.00134   0.06   0.47   0.170   689   P4137   N291   N262   0.000   P   130   132.0   0.10   0.00134   0.06   0.47   0.170   689   P4138   N207   N291   0.000   P   130   132.0   0.15   0.01226   0.55   3.92   0.684   670   P4138   N207   N291   0.000   P   130   391.0   0.15   0.01226   0.55   3.32   0.684   671   P4139   N205   N289   0.000   P   130   391.0   0.15   0.01226   0.55   3.32   0.684   671   P4139   N205   N289   0.000   P   130   397.0   0.15   0.01226   0.55   0.000   673   P4141   N328   N297   0.000   P   130   142.0   0.15   0.0138   0.63   4.42   0.740   674   P4142   N305   N295   0.000   P   130   142.0   0.15   0.0138   0.63   4.42   0.740   675   P4143   N307   N295   0.000   P   130   155.0   0.15   0.01308   0.63   4.42   0.740   676   P4144   N312   N307   N328   0.000   P   130   155.0   0.15   0.01308   0.69   4.42   0.740   677   P4145   N100   N305   0.000   P   130   155.0   0.15   0.01308   0.69   4.42   0.740   678   P4146   N325   N331   0.000   P   130   155.0   0.15   0.01308   0.69   4.42   0.740   677   P4145   N100   N305   0.000   P   130   155.0   0.15   0.01308   0.69   4.42   0.740   681   P4149   N239   N232   0.000   P   130   155.0   0.15   0.00329   0.55   2.47   0.418   683   P4151   N240   N320   N216   0.000   P   90   161.0   0.04   0.00000   0.00   0.00   683   P4													
6684   P4132   N263   N41   0.000   P   130   232.0   0.10   0.00134   0.11   0.47   0.170     6684   P4132   N50   N59   0.000   P   130   50.0   0.10   0.00226   0.06   1.23   0.287     685   P4133   N267   N265   0.000   P   130   176.0   0.15   0.00578   0.17   0.98   0.327     686   P4134   N272   N263   0.000   P   130   176.0   0.15   0.00578   0.17   0.98   0.327     686   P4135   N262   N267   0.000   P   130   175.0   0.10   0.00134   0.08   0.47   0.170     687   P4135   N289   N255   0.000   P   130   132.0   0.10   0.00134   0.06   0.47   0.170     689   P4137   N291   N262   0.000   P   130   132.0   0.10   0.00134   0.06   0.47   0.170     689   P4137   N291   N262   0.000   P   130   132.0   0.15   0.01226   0.50   3.92   0.684     670   P4138   N207   N291   0.000   P   130   391.0   0.15   0.01226   0.50   3.92   0.684     671   P4139   N205   N289   0.000   P   130   397.0   0.15   0.01226   1.53   3.92   0.684     671   P4139   N205   N289   0.000   P   130   397.0   0.10   0.00134   0.19   0.47   0.170     672   P4140   N296   N348   0.000   P   90   161.0   0.05   0.0000   0.00   0.00   0.00     673   P4141   N328   N297   0.000   P   130   120.0   0.15   0.01308   0.63   4.42   0.740     674   P4142   N305   N295   0.000   P   130   105.0   0.15   0.01308   0.63   4.42   0.740     675   P4143   N307   N328   0.000   P   130   105.0   0.15   0.01308   0.66   4.42   0.740     676   P4144   N312   N307   0.000   P   130   105.0   0.15   0.01308   0.66   4.42   0.740     677   P4145   N100   N305   0.000   P   130   155.0   0.15   0.01308   0.66   4.42   0.740     678   P4147   N209   N292   0.000   P   130   155.0   0.15   0.01308   0.66   4.42   0.740     679   P4147   N209   N292   0.000   P   130   155.0   0.15   0.01308   0.66   4.42   0.740     679   P4147   N209   N292   0.000   P   130   155.0   0.16   0.01308   0.66   4.42   0.740     680   P4148   N211   N219   0.000   P   90   161.0   0.04   0.00000   0.00   0.000     680   P4149   N253   N234   0.000   P   90   130   145.0   0.0													
684         P4132         N50         N59         0.000         P         130         50.0         0.10         0.00225         0.06         1.23         0.287           685         P4133         N267         N265         0.000         P         130         175.0         0.15         0.00578         0.17         0.98         0.327           687         P4134         N272         N263         0.000         P         130         175.0         0.10         0.00134         0.08         0.47         0.70           687         P4135         N262         N267         0.000         P         130         64.0         0.15         0.01226         0.55         3.92         0.684           668         P4136         N289         N255         0.000         P         130         132.0         0.10         0.00134         0.06         0.47         0.70           669         P4137         N291         N262         0.000         P         130         132.0         0.10         0.00         0.6         0.47         0.170           670         P4138         N207         N291         0.000         P         130         397.0         0.10													
685         P4133         N267         N268         0.000         P         130         176.0         0.15         0.00578         0.17         0.98         0.327           686         P4134         N272         N263         0.000         P         130         175.0         0.10         0.00134         0.08         0.47         0.170           687         P4135         N262         N267         0.000         P         130         64.0         0.15         0.0126         0.25         3.92         0.684           688         P4136         N289         N255         0.000         P         130         132.0         0.10         0.00134         0.06         0.47         0.170           689         P4137         N291         N200         P         130         132.0         0.16         0.01226         0.50         3.92         0.684           670         P4138         N207         N291         0.000         P         130         397.0         0.10         0.00134         0.19         0.47         0.170           671         P4139         N205         N289         0.000         P         130         150         0.0130         0.03						P					0.00	4.00	0.007
686         P4134         N272         N263         0.000         P         130         175.0         0.10         0.00134         0.08         0.47         0.170           687         P4135         N262         N267         0.000         P         130         64.0         0.15         0.0126         0.25         3.92         0.684           688         P4136         N289         N255         0.000         P         130         132.0         0.15         0.01226         0.50         3.92         0.684           670         P4138         N207         N291         0.000         P         130         391.0         0.15         0.01226         0.50         3.92         0.684           671         P4138         N205         N289         0.000         P         130         397.0         0.10         0.00134         0.19         0.47         0.770           672         P4140         N296         N348         0.000         P         90         161.0         0.05         0.00000         0.00         0.00           673         P4141         N328         N297         0.000         P         130         142.0         0.15         0.0138	665					Р							
668   P4136   N289   N255   0.000   P   130   132.0   0.10   0.00134   0.06   0.47   0.170							130	175.0	0.10	0.00134	0.08	0.47	0.170
669   P4137   N291   N282   0.000   P   130   128.0   0.15   0.01226   0.50   3.92   0.694													
670         P4138         N207         N291         0.000         P         130         391.0         0.15         0.01226         1.53         3.92         0.694           671         P4139         N205         N289         0.000         P         130         397.0         0.10         0.00134         0.19         0.47         0.170           672         P4140         N296         N348         0.000         P         90         161.0         0.05         0.00000         0.00         0.00           673         P4141         N328         N297         0.000         P         130         142.0         0.15         0.01308         0.63         4.42         0.740           674         P4142         N305         N295         0.000         P         130         200.0         0.10         0.00134         0.09         0.47         0.170           675         P4143         N307         N307         0.000         P         130         155.0         0.15         0.01308         0.46         4.42         0.740           677         P4145         N100         N305         0.000         P         130         155.0         0.15         0.01308 </td <td></td>													
671 P4139 N205 N289 0.000 P 130 397.0 0.10 0.00134 0.19 0.47 0.170 672 P4140 N296 N348 0.000 P 90 161.0 0.05 0.00000 0.00 0.00 0.000 0.000 673 P4141 N328 N297 0.000 P 130 142.0 0.15 0.01308 0.63 4.42 0.740 676 P4142 N305 N295 0.000 P 130 105.0 0.10 0.00134 0.09 0.47 0.170 675 P4143 N307 N328 0.000 P 130 105.0 0.15 0.01308 0.66 4.42 0.740 676 P4144 N312 N307 N328 0.000 P 130 105.0 0.15 0.01308 0.66 4.42 0.740 676 P4144 N312 N307 0.000 P 130 155.0 0.15 0.01308 0.69 4.42 0.740 677 P4145 N100 N305 0.000 P 130 165.0 0.15 0.01308 0.69 4.42 0.740 677 P4145 N100 N305 0.000 P 130 169.0 0.10 0.00134 0.08 0.47 0.170 678 P4146 N325 N331 0.000 P 90 90 0.0 0.05 0.0000 0.00 0.00 0.00 660 P4148 N211 N219 0.000 P 90 161.0 0.04 0.0000 0.00 0.00 0.00 660 P4148 N211 N219 0.000 P 90 174.4 0.04 0.0000 0.00 0.00 0.00 661 P4149 N253 N221 0.000 P 90 174.4 0.04 0.0000 0.00 0.00 0.00 0.00 681 P4149 N253 N221 0.000 P 130 224.0 0.10 0.0545 0.92 6.31 0.695 684 P4152 N230 N216 0.000 P 130 124.0 0.10 0.00029 0.55 2.47 0.418 683 P4151 N240 N230 N216 0.000 P 130 124.0 0.10 0.00217 0.15 1.15 0.276 685 P4153 N226 N234 0.000 P 130 134.0 0.10 0.00217 0.15 1.15 0.276 685 P4153 N226 N234 0.000 P 130 134.0 0.10 0.00217 0.15 1.15 0.276 685 P4154 N45 N214 0.000 P 130 134.0 0.10 0.00217 0.15 1.15 0.276 686 P4156 N329 N217 0.000 P 130 134.0 0.08 0.00186 0.93 6.95 0.422 688 P4156 N309 N217 0.000 P 130 134.0 0.08 0.00186 0.93 6.95 0.422 688 P4156 N309 N217 0.000 P 130 134.0 0.08 0.00186 0.93 6.95 0.422 688 P4156 N309 N217 0.000 P 130 134.0 0.08 0.00186 0.93 6.95 0.422 688 P4156 N309 N217 0.000 P 130 140.0 0.00 0.0000 0.000 0.00 0.000	-												
672         P4140         N296         N348         0.000         P         90         161.0         0.05         0.00000         0.00         0.00         0.00           673         P4141         N328         N297         0.000         P         130         142.0         0.15         0.01308         0.63         4.42         0.740           674         P4142         N305         N295         0.000         P         130         200.0         0.10         0.00134         0.09         0.47         0.170           675         P4143         N307         N328         0.000         P         130         105.0         0.15         0.01308         0.66         4.42         0.740           676         P4144         N312         N307         0.000         P         130         155.0         0.15         0.01308         0.69         4.42         0.740           677         P4145         N100         N305         0.000         P         130         169.0         0.10         0.00134         0.08         0.47         0.170           677         P4145         N320         N292         0.000         P         90         161.0         0.04													
673         P4141         N328         N297         0.000         P         130         142.0         0.15         0.01308         0.63         4.42         0.740           674         P4142         N305         N295         0.000         P         130         200.0         0.10         0.00134         0.09         0.47         0.170           675         P4143         N307         N328         0.000         P         130         105.0         0.15         0.01308         0.69         4.42         0.740           676         P4144         N312         N307         0.000         P         130         155.0         0.15         0.01308         0.69         4.42         0.740           677         P4145         N100         N305         0.000         P         130         169.0         0.10         0.00134         0.08         0.47         0.170           678         P4146         N325         N331         0.000         P         90         161.0         0.04         0.0000         0.00         0.00           679         P4147         N209         N292         0.000         P         90         161.0         0.04         0.00000 <td></td> <td></td> <td></td> <td></td> <td></td> <td>P</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						P							
674         P4142         N305         N295         0.000         P         130         200.0         0.10         0.00134         0.09         0.47         0.170           675         P4143         N307         N328         0.000         P         130         105.0         0.15         0.01308         0.69         4.42         0.740           676         P4144         N312         N307         0.000         P         130         155.0         0.15         0.01308         0.69         4.42         0.740           677         P4145         N100         N305         0.000         P         130         169.0         0.10         0.00134         0.08         0.47         0.170           678         P4146         N325         N331         0.000         P         90         161.0         0.04         0.0000         0.00						P							
675         P4143         N307         N328         0.000         P         130         105.0         0.15         0.01308         0.46         4.42         0.740           676         P4144         N312         N307         0.000         P         130         155.0         0.15         0.01308         0.69         4.42         0.740           677         P4145         N100         N305         0.000         P         130         169.0         0.10         0.00134         0.08         0.47         0.170           678         P4146         N325         N331         0.000         P         90         90.0         0.05         0.0000         0.00	674	P4142	N305	N295	0.000	P							
677         P4145         N100         N305         0.000         P         130         169.0         0.10         0.00134         0.08         0.47         0.170           678         P4146         N325         N331         0.000         P         90         90.0         0.05         0.0000         0.00         0.00         0.000										0.01308	0.46	4.42	0.740
678         P4146         NS25         NS31         0.000         P         90         90.0         0.05         0.00000         0.00         0.00         0.00         0.0000         0.000         0.000         0.000													
679         P4147         N209         N292         0.000         P         90         161.0         0.04         0.0000         0.00         0.00         0.00           680         P4148         N211         N219         0.000         P         90         174.4         0.04         0.00000         0.00         0.00         0.00           681         P4149         N253         N221         0.000         P         130         251.0         0.15         0.00078         0.01         0.02         0.044           682         P4150         N230         N216         0.000         P         130         224.0         0.10         -0.00329         -0.55         2.47         -0.418           683         P4151         N240         N230         0.000         P         130         145.0         0.10         -0.00545         -0.92         -6.31         -0.695           684         P4152         N232         N230         0.000         P         130         134.0         0.10         0.00217         0.15         1.15         0.276           685         P4153         N266         N234         0.000         P         130         141.4         0.10<						<u>P</u>							
680         P4148         N211         N219         0.000         P         90         174.4         0.04         0.0000         0.00         0.00         0.00           681         P4149         N253         N221         0.000         P         130         251.0         0.15         0.00078         0.01         0.02         0.044           682         P4150         N230         N216         0.000         P         130         224.0         0.10         -0.00329         -0.55         -2.47         -0.418           683         P4151         N240         N230         0.000         P         130         145.0         0.10         -0.00545         -0.92         -6.31         -0.695           684         P4152         N232         N230         0.000         P         130         134.0         0.10         0.00217         0.15         1.15         0.276           685         P4153         N226         N234         0.000         P         130         141.4         0.10         0.00217         0.11         1.15         0.276           685         P4154         N45         N214         0.000         P         130         141.4         0.1													
681         P4149         N253         N221         0.000         P         130         251.0         0.15         0.00078         0.01         0.02         0.044           682         P4150         N230         N216         0.000         P         130         224.0         0.10         -0.00329         -0.55         -2.47         -0.418           683         P4151         N240         N230         0.000         P         130         145.0         0.10         -0.00545         -0.92         -6.31         -0.695           684         P4152         N232         N230         0.000         P         130         134.0         0.10         0.00217         0.15         1.15         0.276           685         P4153         N226         N234         0.000         P         130         97.0         0.10         0.00217         0.11         1.15         0.276           685         P4153         N226         N234         0.000         P         130         97.0         0.10         0.00217         0.11         1.15         0.276           686         P4154         N45         N214         0.000         P         90         134.0         0.0													
682         P4150         N230         N216         0.000         P         130         224.0         0.10         -0.00329         -0.55         -2.47         -0.418           683         P4151         N240         N230         0.000         P         130         145.0         0.10         -0.00545         -0.92         -6.31         -0.695           684         P4152         N232         N230         0.000         P         130         134.0         0.10         0.00217         0.15         1.15         0.276           685         P4153         N226         N234         0.000         P         130         141.4         0.10         0.00217         0.11         1.15         0.276           686         P4154         N45         N214         0.000         P         130         141.4         0.10         0.00128         0.06         0.43         0.163           687         P4156         N269         N217         0.000         P         90         134.0         0.08         0.00186         0.93         6.95         0.422           688         P4156         N107         N102         0.000         P         90         299.0         0.													
683         P4151         N240         N230         0.000         P         130         145.0         0.10         -0.00545         -0.92         -6.31         -0.695           684         P4152         N232         N230         0.000         P         130         134.0         0.10         0.00217         0.15         1.15         0.276           685         P4153         N226         N234         0.000         P         130         97.0         0.10         0.00217         0.11         1.15         0.276           686         P4154         N45         N214         0.000         P         130         141.4         0.10         0.00217         0.11         1.15         0.276           687         P4155         N269         N217         0.000         P         90         134.0         0.08         0.00186         0.93         6.95         0.422           688         P4156         N107         N102         0.000         P         90         299.0         0.04         0.0035         2.61         8.72         0.310           689         P4157         N319         N212         0.000         P         130         166.9         0.10 <td><del></del></td> <td></td>	<del></del>												
684         P4152         N232         N230         0.000         P         130         134.0         0.10         0.00217         0.15         1.15         0.276           685         P4153         N226         N234         0.000         P         130         97.0         0.00         0.00217         0.11         1.15         0.276           686         P4154         N45         N214         0.000         P         130         141.4         0.10         0.00128         0.06         0.43         0.163           687         P4155         N269         N217         0.000         P         90         134.0         0.08         0.00186         0.93         6.95         0.422           688         P4156         N107         N102         0.000         P         90         134.0         0.08         0.00186         0.93         6.95         0.422           688         P4156         N107         N102         0.000         P         90         299.0         0.04         0.0035         2.61         8.72         0.310           689         P4157         N319         N212         0.000         P         90         149.0         0.04													
685         P4153         N226         N234         0.000         P         130         97.0         0.10         0.00217         0.11         1.15         0.276           686         P4154         N45         N214         0.000         P         130         141.4         0.10         0.00128         0.06         0.43         0.163           687         P4155         N269         N217         0.000         P         90         134.0         0.08         0.0186         0.93         6.95         0.422           688         P4156         N107         N102         0.000         P         90         299.0         0.04         0.0035         2.61         8.72         0.310           689         P4157         N319         N212         0.000         P         130         166.0         0.10         0.01326         5.42         32.64         1.683           690         P4158         N320         N213         0.000         P         90         149.0         0.04         0.0052         2.69         18.07         0.460           691         P4159         N213         N125         0.000         P         90         207.2         0.04		P4152	N232	N230		P							
687         P4155         N269         N217         0.000         P         90         134.0         0.08         0.00186         0.93         6.95         0.422           688         P4156         N107         N102         0.000         P         90         299.0         0.04         0.0035         2.61         8.72         0.310           689         P4157         N319         N212         0.000         P         130         166.0         0.10         0.01326         5.42         32.64         1.688           690         P4158         N320         N213         0.000         P         90         149.0         0.04         0.00052         2.69         18.07         0.460           691         P4159         N213         N125         0.000         P         90         207.2         0.04         0.00052         3.74         18.07         0.460           692         P4160         N123         N194         0.000         P         90         249.1         0.04         0.0000         0.00         0.00         0.000           693         P4161         N121         N193         0.000         P         90         251.3         0.04			N226	N234	0.000		130	97,0	0.10	0.00217	0.11	1.15	
688         P4156         N107         N102         0.000         P         90         299.0         0.04         0.00035         2.61         8.72         0.310           689         P4157         N319         N212         0.000         P         130         166.0         0.10         0.01326         5.42         32.64         1,688           690         P4158         N320         N213         0.000         P         90         149.0         0.04         0.00052         2.69         18.07         0.460           691         P4159         N213         N125         0.000         P         90         207.2         0.04         0.00052         3.74         18.07         0.460           692         P4160         N123         N194         0.000         P         90         249.1         0.04         0.0000         0.00         0.00         0.00           693         P4161         N121         N193         0.000         P         90         251.3         0.04         0.0000         0.00         0.00         0.00           694         P4162         N119         N192         0.000         P         90         229.0         0.04													
689         P4157         N319         N212         0.000         P         130         166.0         0.10         0.01326         5.42         32.64         1.688           690         P4158         N320         N213         0.000         P         90         149.0         0.04         0.0052         2.69         18.07         0.460           691         P4159         N213         N125         0.000         P         90         207.2         0.04         0.00052         3.74         18.07         0.460           692         P4160         N123         N194         0.000         P         90         249.1         0.04         0.00000         0.00         0.00         0.00           693         P4161         N121         N193         0.000         P         90         251.3         0.04         0.00000         0.00         0.00         0.000           694         P4162         N119         N192         0.000         P         90         229.0         0.04         0.00000         0.00         0.00         0.00           695         P4163         N164         N166         0.000         P         90         305.0         0.04													
690         P4158         N320         N213         0.000         P         90         149.0         0.04         0.00052         2.69         18.07         0.460           691         P4159         N213         N125         0.000         P         90         207.2         0.04         0.00052         3.74         18.07         0.460           692         P4160         N123         N194         0.000         P         90         249.1         0.04         0.0000         0.00         0.00         0.000           693         P4161         N121         N193         0.000         P         90         251.3         0.04         0.00000         0.00         0.00         0.000           694         P4162         N119         N192         0.000         P         90         229.0         0.04         0.0000         0.00         0.00         0.00           695         P4163         N164         N166         0.000         P         90         305.0         0.04         -0.00019         -0.84         -2.77         -0.167													
691         P4159         N213         N125         0.000         P         90         207.2         0.04         0.00052         3.74         18.07         0.460           692         P4160         N123         N194         0.000         P         90         249.1         0.04         0.0000         0.00         0.00         0.00           693         P4161         N121         N193         0.000         P         90         251.3         0.04         0.0000         0.00         0.00         0.00           694         P4162         N119         N192         0.000         P         90         229.0         0.04         0.0000         0.00         0.00         0.00           695         P4163         N164         N166         0.000         P         90         305.0         0.04         -0.00019         -0.84         -2.77         -0.167													
692         P4160         N123         N194         0.000         P         90         249.1         0.04         0.0000         0.00         0.00         0.000           693         P4161         N121         N193         0.000         P         90         251.3         0.04         0.0000         0.00         0.00         0.000           694         P4162         N119         N192         0.000         P         90         229.0         0.04         0.0000         0.00         0.00         0.000           695         P4163         N164         N166         0.000         P         90         305.0         0.04         -0.00019         -0.84         -2.77         -0.167													
693         P4161         N121         N193         0.000         P         90         251.3         0.04         0.0000         0.00         0.00         0.000           694         P4162         N119         N192         0.000         P         90         229.0         0.04         0.0000         0.00         0.00         0.000           695         P4163         N164         N166         0.000         P         90         305.0         0.04         -0.00019         -0.84         -2.77         -0.167													
694         P4162         N119         N192         0.000         P         90         229.0         0.04         0.0000         0.00         0.00         0.000           695         P4163         N164         N166         0.000         P         90         305.0         0.04         -0.00019         -0.84         -2.77         -0.167	-	P4161											
						Р	90	229,0		0.00000			
696   P4164  N143  N142  0.000   P   90  203.0   0.04   -0.00016   -0.42   -2.08   -0.143													
	696	P4164	N143	N142	0.000	₽	90	203.0	0.04	-0.00016	-0.42	-2.08	-0.143

Table 3C-3 Pipe Data (9/10)

Tab	<u>le 3C</u> .	<u> 3 Pip</u>	<u>e Data</u>			(9/1	0)	_				
No	Pipe No.	From Node No.	To Node No.	Demand (m³/s)	Type (P- Pipe V-Valve)	C Value	Length, m	Diameter,	Flow rate (m³/s)	Head Loss, m	Friction Gradient, m/km	Velocity, m/s
697	P4165	N102	N142	0.000	Р	90	351.0	0.04	0.00015	0.66	1.88	0.136
_698 	P4166 P4167	N159 N77	N156 N159	0.000	P	90	150.0	0.04	-0.00006	-0.04	-0.29	-0.049
700	P4168	N65	N77	0.000	P	90	390.0 314.0	0.04	-0.00006 -0.00006	-0.11 -0.09	-0.29 -0.29	-0.049 -0.049
701	P4169	N70	N65	0.000	P	90	126.0	0.04	-0.00006	-0.04	-0.29	-0.049
702	P4170	N69	N76	0.000	Р	90	113.0	0.05	0.00000	0.00	0.00	0.000
703	P4171	N144	N153	0.000	P	90	132.0	0.04	0.00011	0.13	0.96	0.094
704	P4172	N153	N53	0.000	Р.	90	129.0	0.08	0.00025	0.02	0.16	0.056
705 706	P4173 P4174	N53	N69 N70	0.000	P	90 90	238.0 371.0	0.08	0.00025 -0.00030	0.04 -0.09	0.16 -0.24	0.056 -0.068
707	P39	N70	N69	0.000	P	90	58.0	0.08	-0.00025	-0.03	-0.16	-0.056
708	P4175	N148	N147	0.000	P	90	191.0	0.08	-0.00077	-0.26	-1.34	-0.174
709	P4176	N140	N147	0.000	P	90	204.0	0.08	0.00077	0.27	1.34	0.174
710	P4177	N137	N116	0.000		130	139.7	0,10	-0.00155	-0.09	-0.61	-0.197
711	P4178 P4179	N116 N113	N113 N181	0.000	P	130 130	127.0 266.0	0.10	-0.00155 -0.00369	-0.08	-0.61 -3.07	-0.197
713	P4180	N183	N175	0.000	<del></del>	90	153.5	0.04	0.00005	-0.82 0.29	1.86	-0.470 0.135
714	P4181	N179	N189	0.000	P	90	93.6	0.04	-0.00015	-0.17	-1.86	-0.135
715	P4182	N245	N240	0.000	P	130	265.5	0.10	0.00292	0,53	1.99	0.372
716	P4183	N249	N245	0.000	Р	130	156.0	0.10	0.00292	0.31	1.99	0,372
717 718	P4184 P4185	N336 N334	NV2_1 N336	0.000	P _	90	182.5 151.0	0.04	0.00000	0.00	0.00	0.000
719	P4186	N299	N333	0.000	P	130	145.0	0.15	-0.01070	-0.44	0.00 -3.05	-0.605
720	P4187	N362	N349	0,000	Р	130	116.2	0.15	-0.00955	-0.29	-2.47	-0.540
721	P4188	N345	N350	0.000	Р	90	120.0	0.04	0.00000	0.00	0.00	0.000
722	P4189	N355	N361	0.000	<u> </u>	90	113.0	0.04	0.00000	0.00	0.00	0.000
723 724	P4190 P4191	N357 N18	N358 N928	0.000	P	130 90	107.0 182.0	0.15	-0.00536 0.00088	-0.09 0.31	-0.85	-0.303
725	P4192	N17	N927	0.000	P	90	189.5	0.08	0.00068	0.20	1.72 1.07	0.199
726	P4193	N928	N925	0.000	P ~	90	328.0	0.08	0.00088	0.57	1.72	0.199
727	P4194	N919	N927	0.000	P	90	338.0	0.08	-0.00068	-0.36	-1.07	-0.154
728	P4195	N779	N921	0.000	Р	90	172.0	0,05	-0.00084	-1.97	-11.45	-0.428
729	P4196	N921	N1300	0.000	P	90	201.6	0.05	-0.00087	-2.48	-12.33	-0.445
730 731	P4197	N921	N943 N944	0.000	P	90		0.05	0.00003	0.00	0.03	0.017
731	P4198 P4199	N933 N885	N944 N919	0.000	P	90	88.0 408.0	0.05	-0.00068	0.00 -0.44	-1.07	-0.154
733	P4200	N893	N936	0,000	P	90	219.0	80.0	-0.00018	-0.02	-0.09	-0.040
734	P4201	N890	N913	0.000	P	130	244.0	0.15	-0.00661	-0.31	-1.25	-0.374
735	P4202	N963	N967	0.000	Р	90	82.5	0.08	0.00000	0.00	0.00	0.000
736	P4203	N987	N991	0.000	P	90	194.0	0.08	-0.00112	-0.53	-2.72	-0.254
737 738	P4204 P4205	N984 N985	N997 N997	0.000	P	130	104.0 64.0	0.10	0.00325 -0.00262	0.25 -0.10	2.42 -1.63	-0.334
739	P4206	N997	N982	0.000	P	130		0.10	-0.00202	-0.02	-0.25	-0.120
740	P4207	N984	N994	0.000	P -	130		0.10	0.00204	0.11	1.02	0.259
741	P4208	N948	N970	0.000	P	130		0.10	0.00222	0.17	1.19	0.282
742	P4209	N969		0.000	P	130		0.10	0.00222	0.14	1.19	0.282
743	P4211	N112		0.000	P	130			0.00050 0.00050	0.03	0.08	0.064
745	P4212	N340	N339	0.000	† · · · · · · · · · · ·	130			0.00050	0.02	0.08	0.064
746	P4214	N23		0.000		130			-0.00753	-0.57	-1,59	-0.426
747	P4216		N900	0.000	Р	130	187.3		0.00383	0.62	3.28	0.488
748	P4217	N900		0.000	Р	130		0.10	0.00383	0.71	3.28	0.488
749	P4218	N897		0.000	P	130		0.10	-0.00369	-0.61	-3.07	-0,470
750 751	P4219			0.000	P	130			0.00383	0.29	3.28	0.488
752	P4221		1		P	130			-0.00753	-0.10	-1.59	+
753	P4222				P	130			-0.00753	-0.14	-1.59	
754	P4223	N862	N861	0.000	Р	90	168.9	0.08	0.00000	0.00	0.00	0.000
755	P4224				P	90			0.00051	0.14	0.64	
756 757	P4225				P	90			0.00062 0.00032	0.35	0.90 0.27	
758	P4227					90			0.00032	0.03	1.94	
759	P4228				P	120			-0.03159	-0.08	-0.90	
760	P4229	N133	N131	0.000		120	139.0	0.30	-0.03159	-0.12	-0.90	-0.447
761	P4230				P	120			-0.02154	-0.07	-0.44	
762	P423				P	120				-0.21	-1.07	
763 764	P4233		<del></del>		P	120			-0.03477 -0.03477	-0.25 -0.21	-1.07 -1.07	
765	P423				<del></del>	13						
766	P423				Р	13	183.0	0.10	-0.00090	-0.04	-0.23	-0.115
767	P4236				Р	131						
768	P423				P	13						
769	P423				P	13						
770	P423				1-F	12						
772	P424				P -	9						
773	P424				P	9	0 58.1	0.05	0.00094	0.82	14.09	0.479
774	P424	3 N88	4 N82		Р	9						
775	P424				P	9						
776	P424				P	- 13						
778	P424					13						
779	P424				P	13						
780	P424	9 N118	7 N118	0.000	P	9	0 233.4	4 0.08	-0.00123	-0.75	-3.21	-0.278
781	P425				Р.		273.8					
782 783	P425				P P		0 207.3					
183	1425	-1 1491	~  IAA).	. 0.000	<del></del> _	s	<u> </u>	0.00	U V.00 134	1,30	4.90	U.30U_

Table 3C-3 Pipe Data (10/10)

Tab	<u>le 3C</u>	-3 Pip	e Data	l		(10/	10)					
No	Pipe No.	From Node No.	To Node No.	Demand (m³/s)	Type (P- Pipe V-Valve)	C Value	Length, m	Diameter, m	Flow rate (m³/s)	Head Loss, m	Friction Gradient, m/km	Velocity, m/s
784	P4253	N972	N819	0.000	Р	90	235.4	0.05	0.00000	0.00	0.00	0.000
785	P4254	N972	N810	0.000	Р	90	138.1	0.05	0.00005	0.01	0.07	0.027
786	P4255	N811	N1032	0.000	Р	90	200.5	0.08	0.00078	0.28	1.40	0.178
787	P4256	N1081	N811	0.000	P	90	100.2	0.08	0.00073	0.12	1.23	0.165
788	P4257	N1032	N1034	0.000	Р	90	119.0	0.08	0.00078	0.17	1.40	0.178
789	P4258	N1081	N1007	0.000	P	90	140.5	0.08	80000.0	0.00	0.02	0.017
790	P4259	N1007	N1037	0.000	P	90	60.4	0.08	0.00000	0.00	0.00	0.000
791	P4260	N1007	N1008	0.000	Р	90	131.3	0.08	0.00008	0.00	0.02	0.017
792	P4261	N1084	N1008	0.000	P	90	73.3	0.08	0.00041	0.03	0.42	0.093
793	P4263	N1063	N1085	0.000		130	104.3	0.15	-0.00944	-0.25	-2.42	-0.534
794 795	P4264 P4265	N1089 N1075	N1074 N1066	0.000	P P	90	86.0	0.04	0.00058	1.86	21.63	0.507
796	P4266	N1098	N1068	0.000	P	90	148.0 89.4	0.05 0.05	0.00000	0.00	0.00	0.000
797	P4267	N1096	N1069	0.000	P	130	94.0	0.05	-0.00886	-0.20	-2.15	-0.502
798	P4268	N1097	N1091	0.000	P	90	188.5	0.08	0.00061	0.16	0.87	0.137
799	P4269	N1106	N1105	0.000	Р	90	177,4	0.04	0.00015	0.30	1.69	0.128
800	P4270	N769	N1104	0.000	Đ	130	231.0	0.15	-0.00648	-0.28	-1.20	-0.367
801	P4271	N1238	N769	0.000	Р	130	508,4	0.15	-0.01429	-2.64	-5.20	-0.808
802	P4272	N1060	N1111	0.000	Р	130	60.0	0.15	-0.00515	-0.05	-0.79	-0.291
803	P4273	N1113	N1116	0.000	Р	130	266.4	0.10	0.00230	0.34	1.28	0.293
804	P4274	N1117	N1118	0.000	P :0	130	430.0	0,10	0.00230	0.55	1.28	0.293
805	P4275	N1118	N1120	0.000		130	353.0	0.10	0.00230	0.45	1.28	0.293
806	P4276	N1044	N1046	0.000	P	90	93.6	0.08	0.00000	0.00	0.00	0.000
807 808	P4277 P4278	N1003 N1019	N1000 N1018	0.000	ρ	90	107.0	0.08	0.00341	2.27	21.21	0.772
809	P4278	N1019	N1043	0.000	- <del>-</del> -	90	80.1 143.4	0.05	0.00078 -0.00031	0.81 -0.26	10.09	-0.400 -0.159
810	P4279	N1019	N1029	0.000	Р	_ 90	204.0	0.05	0.00031	0.38	-1.84 1.84	0.159
811	P4281	N1011	N1050	0.000	P	90	153.2	0.08	-0.00178	-0.98	-6.40	-0.404
812	P4282	N1051	N1055	0.000	P	90	221.9	0.08	0.00105	0.53	2.38	0.237
813	P4283	N1027	N800	0.000	P	130	511.0	0.10	0.00132	0.23	0.46	0.168
814	P4285	N802	N786	0.000	Р	130	331.7	0,10	0.00095	0.08	0.25	0.121
815	P4286	N786	N785	0.000	Р	130	291.4	0,10	0.00095	0.07	0.25	0.121
816	P4287	N807	N785	0.000	Р	130	232.3	0.10	0.00378	0.74	3.20	0.481
817	P4288	N1024	N809	0.000	P	130	254.8	0.10	-0.00132	-0.12	-0.46	-0.168
818	P4289	N807	N805	0.000	Р	130	145.4	0,10	-0.00294	-0.29	-2.01	-0.375
819	P4290	N872	N869	0.000	P	130	192.8	0.10	-0.00294	-0.39	-2.01	-0.375
820	P4291	N868	N872	0.000	P	130	165.2	0.10	-0.00294	-0.33	-2.01	-0.375
821	P4292	N806	N879 N868	0,000	P	130	74.5	0.10	-0.00294	-0.15	-2.01	-0.375
822 823	P4293 P4294	N877 N783	N795	0.000	<u>-</u>	130 130	262.0 189.6	0.10	-0.00294 0.00500	-0.53 1.02	-2.01	-0.375
824	P4295	N870	N782	0.000		130	160.0	0.10 0.10	0.00500	0.86	5.38 5.38	0,637 0.637
825	P4296	N792	N798	0.000	<u>.</u>	130	184.0	0.10	-0.00112	-0.06	-0.34	-0.143
826	P4297	N797	N785	0.000	P	130	199.5	0.10	-0.00125	-0.08	-0.42	-0.160
827	P4298	N546	N570	0.000	P	90	125.4	0.08	-0.00311	-2.24	-17.87	-0.704
828	P4299	N829	N838	0.000	P	120	307.8	0.25	-0.03531	-0.82	-2.67	-0.719
829	P4300	N846	N834	0.000	Р	120	213.0	0.25	-0.00930	-0.05	-0.23	-0.190
830	P4284	N913	N918	0.000	P	130	52,8	0.15	-0.00661	-0.07	-1.25	-0.374
831	P913	N887	N918	0.000	P	130	54.8	0.15	-0.01218	-0.21	-3.87	-0.689
832	P652	N631	N14	0.000	P	130	67.5	0.10	0.00231	0.09	1.29	0.294
833	P4057 P1204	N532 N1151	N655 N29	0.000	P	130 130	270.0	0.10	0.00405	0.98	3.63	0.515
834 835	P2142	N500	N712	0.000	- <del></del> -	130	294.1 865.0	0.10	0.00028 -0.02002	0.01 -2.07	0.03 -2.39	0.036 -0.637
836	P2164	N1127	N1227	0.000		130	846.0	0.10	0.02002	4.79	5.66	0.655
837	P2168	N892	N984	0.000		120	381.0	0.30	0.03566	0.43	1.12	0.505
838	P2166	N765	N984	0.000		130	489.0	0.30	-0.02398	-1.63	-3.34	-0.763
839	P2196	N888	N1315	0.000	P	120	672,0	0.30	0.06950	2.59	3.85	0.983
840	P2185	N1315	N1305	0.000	Р	120	451.0	0.30	0.07422	1.96	4.35	1.050
841	P2203	N1003	N1306	0.000	Р	120	354.0	0.30	0.01254	0.06	0.16	0.177
842	P1059	N1016	N1014	0.000	Р	90	257,7	0.08	-0.00253	-3.14	-12.20	-0.572
843	P2206	N1014	N1051	0.000	. Р	130	250,4	0.20	0.00269	0.01	0.06	0.086
844	P1054	N1009	N1003	0.000	Р	90	57.9	0.08	0.00049	0.03	0.58	0.110
845	P2289	N1080	N1004 N1044	0.000	P	130 90	582.0	0.15	0.00769	0.96	1.65	0.435
846 847	P1090 P4262	N1009 N1085	N1044 N1083	0.000	P	90	148.4 304.0	0.08	0.00000 0.00122	0.00	0.00 3.15	0.000
848	P1125	N1084	N1083	0.000	P	90	108.4	0.08	-0.00041	-0.05	-0.42	-0.093
849	P1120	N1084	N1083	0,000	<u>F</u>	90	48.9	0.08	-0.00041	-0.05	-1.47	-0.182
850	P2152	N888	N892	0,000	P	120	416.0	0.30	0.06872	1.57	3.77	0.972
851	P2123	N892	N1137	0.000	Р	120	919.0	0.30	0.03329	0.91	0.99	0.471
852	P2125	N1137	N1215	0.000	Р	130	804.0	0.10	0.00675	7.54	9.37	0.860
853	P1234	N1163	N1132	0.000	Р	130	204.0	0.10	-0.00348	-0.56	-2.75	-0.443
854	P2135	N265	N407	0.000	P	130	1596.0	0.20	0.03565	11.10	6.96	1.135
855	P2302	N397	N500	0.000		130	703.0	0.20	0.01276	0,73	1.04	0.406
856	P2150	N698	N387	0.000	Р	130	974.0	0.20	0.00486	0.17	0.17	0.155
857	P2132	N265	N389	0.000	Р	130	805.0	0.20	0.01505	1,14	1.41	0.479
858	P273	N265	N275	0.000	P	130	163.9	0.05	0.00288	9.27	56.55	1.466
859	P11	N23	N905	0.000	P	130	123.0	0.15	0,00753	0.20	1.59	0.426
860	P4215	N905	N901	0.000	P	130	225.0	0.10	0.00369	0.69	3.07	0.470
861 862	P173 P180	N98 N173	N173 N201	0.000	P P	90	133.0 120.0	0.08	0.00190 0.00058	0.95 0.10	7,17 0,81	0.429
863	P180	N173	N173	0.000	P	90	120.0	0.08	-0.00058	-0.57	-3.63	-0.297
864	P2104	N1301	N601	0.000	<del>-</del>	120	547.0	0.40	0.11484	1.31	2.40	0.914
865	P2107	N601	N532	0.000	P	120	766.0	0.30	0.08129	3.94	5.15	1,150
866	P2108	N532	N679	0.000	Р	120	497.0	0.30	0.06226	1.56	3.14	0.881

## APPENDIX 3D

POWER SUPPLY FOR GOTHATUWA-KOLONNAWA PUMP HOUSE AND GOTHATUWA PUMP HOUSE

## APPENDIX 3D POWER SUPPLY FOR GOTHATUWA-KOLONNAWA PUMP HOUSE AND FOR GOTHATUWA PUMP HOUSE

### 3D1 MOTOR STARTING METHOD

In consideration of limitation of allowable capacity for existing Ambatale substation or minimizing of required capacity for emergency generator at Gothatuwa new pump station, it is required to apply suitable motor starting which enable to reduce the big starting current of the motor.

165 kW x 4 ( 3 of duty, 1 of stand-by) and 130kW x3( 2 of duty, 1 of stand-by) of motor capacity are provided at Gothatuwa-Kolonnawa Pump House and Gothatuwa Pump House respectively.

For the starting current compensation of above high voltage motor, the auto-transformer starter (Condorfer) is recommendable.

## 3D2 AUXILIARY SERVICE LOAD AT THE PUMP HOUSES

Auxiliary service loads such as the air-conditioners, the lighting and the control power source etc. are to be considered for the required power receiving capacity.

40kW and 10kW of above auxiliary service load are assumed for Gothatuwa-Kolonnawa Pump House and for Gothatuwa Pump House respectively.

## 3D3 REQUIRED POWER RECEIVING CAPACITY FOR GOTHTUWA-KOLONNAWA PUMP HOUSE

### 3D3.1 Assumed Condition

-Auto transformer tap( 50%,65%,80% ) to be applied	80%
( considering the most severe case)	
-Power factor of the pump motor	0.85
-Efficiency of the pump motor	0.9
-Power factor of the auxiliary service load	0.85
-Efficiency of the auxiliary load	0.85

## 3D3.2 Required Capacity (Pn) to Supply against Maximum Normal Load

$$P_N = (165 \times 3) / (0.85 \times 0.9) + 40 / (0.85 \times 0.85) = 702KVA$$

## 3D3.3 Required Capacity ( $P_s$ ) for Allowable 3.3KV System Voltage Regulation of less than 10% under Big Motor Starting

$$P_1 = \{40 / (0.85 \times 0.85)\} \times 0.85 = 47 \text{ kW}$$

$$Q_1 = 40 / (0.85 \times 0.85) \times \sqrt{1 - 0.85^2} = 29 \text{ kvar}$$

$$P_2 = \{165 \times 2 / (0.9 \times 0.85)\} \times 0.85 = 367 \text{ kW}$$

$$Q_2 = \{(165 \times 2) / (0.9 \times 0.85)\} \times \sqrt{1 - 0.85^2} = 228 \text{ Kvar}$$

$$P_3 = 165 / (0.9 \times 0.85) \times 6 \times 0.8^2 \times 0.2 = 168 \text{ kW}$$

$$Q_3 = 165 / (0.9 \times 0.85) \times 6 \times 0.8^2 \times \sqrt{1 - 0.2^2} = 811 \text{ Kvar}$$

$$P_T = P_1 + P_2 + P_3 = 582 \text{ kW}$$

$$Q_T = Q_1 + Q_2 + Q_3 = 1068 \text{ Kvar}$$
Say,
$$P_S = 1068 \times 5.5 / 10 = 587 \text{ kVA}$$
Here,
$$P_1; \text{ Active power for auxilially service load}$$

$$Q_1; \text{ Reactive power for motor (normal running)}$$

$$Q_2; \text{ Reactive power for motor (normal running)}$$

$$P_3; \text{ Active power for starting motor}$$

$$Q_3; \text{ Reactive power for starting motor}$$

$$G_3; \text{ Reactive power for starting motor}$$

$$G_4; \text{ Multiple of motor starting current in case of direct starting (comparing with its rated current)}$$

$$0.8; \text{ Tap of auto-transformer}(\text{ decrease ratio of Condorfer starting against direct starting)}$$

$$0.2; \text{ Power factor for starting motor}$$

$$5.5; \text{ Expected impedance for associated receiving power transformer}(\%)$$

$$10; \text{ Allowable system voltage drop under motor starting}(\%)$$

### 3D3.4 Required Capacity for Receiving Power Transformer

As mentioned above item 3D3.2 and 3D3.3,  $P_N$  of 702 kVA and  $P_S$  of 587 kVA are determinded.

Bigger capacity between them is to be applied for required capacity of the transformer.

Therefore, 700 kVA of transformer capacity is at least to be considered for Gothatuwa - Kolonnawa Pump House.

According to NWSDB plan for upstream substation, 3 sets of 500 kVA ( 11kV/415-240V) transformers, totally 1500 kVA, will be installed to supply the power for not only for Gothatuwa-Kolonnawa Pump House but also Ellie House Pump House.

#### REQUIRED POWER RECEIVING CAPACITY FOR GOTHATUWA PUMP 3D4 HOUSE TRANSFORMER

#### Assumed condition 3D4.1

Same as condition mentioned above item 3.1

#### Required Capacity (P<sub>N</sub>) to Supply against Maximum Normal Load 3D4.2

$$P_N = (130 \times 2) / (0.85 \times 0.9) + 10 / (0.85 \times 0.85) = 354 \text{ kVA}$$

### Required capacity (Ps) for Allowable 11KV System Voltage Regulation of less 3D4.3 than 10% under Big Motor Starting

$$\begin{split} P_1 &= \{10 \, / \, (\ 0.85 \times 0.85 \ )\} \times 0.85 = 12 \ \text{kW} \\ Q_1 &= 10 \, / \, (\ 0.85 \times 0.85 \ ) \times \sqrt{1 - 0.85^2} = 7 \ \text{Kvar} \\ P_2 &= \{130 \times 1 \, / \, (\ 0.9 \times 0.85 \ )\} \times 0.85 = 144 \ \text{kW} \\ Q_2 &= \{(\ 130 \times 1 \ ) \, / \, (\ 0.9 \times 0.85 \ )\} \times \sqrt{1 - 0.85^2} = 90 \ \text{Kvar} \\ P_3 &= 130 \, / \, (\ 0.9 \times 0.85 \ ) \times 6 \times 0.8^2 \times 0.2 = 131 \ \text{kW} \\ Q_3 &= 130 \, / \, (\ 0.9 \times 0.85 \ ) \times 6 \times 0.8^2 \times \sqrt{1 - 0.2^2} = 639 \ \text{Kvar} \\ P_T &= P_1 + P_2 + P_3 = 287 \ \text{kW} \\ Q_T &= Q_1 + Q_2 + Q_3 = 736 \ \text{Kvar} \\ \end{split}$$
 Say,
$$P_S &= 736 \times 5.5 \, / \ 10 = 405 \ \text{kVA}$$
 Here

Here.

- P<sub>1</sub>; Active power for auxilialy service load
- O1: Reactive power for auxilialy service load
- P2; Active power for motor (normal running)
- O2: Reactive power for motor (normal running)
- P<sub>3</sub>; Active power for starting motor
- O3: Reactive power for starting motor
- 6; Multiple of motor starting current in case of direct starting (comparing with its rated current)
- 0.8; Tap of auto-transformer( decrease ratio of Condorfer starting against direct starting)
- 0.2; Power factor for starting motor
- 5.5; Expected impedance for associated receiving power transformer(%)
- 10; Allowable system voltage drop under motor starting( % )

### 3D4.4 Required Capacity for Receiving Power Transformer

As mentioned above item 3D4.2 and 3D4.3,  $P_N$  of 354 kVA and  $P_S$  of 405 kVA are determinedd.

Bigger capacity between them is to be applied for required capacity of the transformer.

Therefore, 400 kVA of transformer capacity is at least need for Gothatuwa Pump House.

Note: Although above P<sub>S</sub> of 405KVA exceeds 400KVA of transformer rated capacity, the transformer is sufficiently applicable because its slight excess of only 1% is within allowable overload limit( 10% overload).

## 3D5 REQUIRED CAPACITY OF THE EMERGENCY GENERATOR AT GOTHATUWA PUMP HOUSE

Comparing with Ambatale pump station area, Gothatuwa area has no high reliable commercial power net work and its frequent power outage may, therefore, expected.

To provide stable water supply even if the commercial power outage occurrs, emergency generator which enable to supply the power to operate essential number of pump is to be provided and installed.

### 3D5.1 Emergency load

In general, half of number of pump under normal condition is considered for the pump to be operated under emergency condition.

Therefore, 140 kW in total (1 unit of 130 kW pump and 10 kW of station service load) shall be applied for the emergency load in Gothatuwa pump station.

## 3D5.2 Required Capacity for the Emergency Generator

Biggest value among capacities determinded by the following formulas is applied for the required generator capacity.

1) Capacity(  $P_{GI}$  ) required to satisfy the supply against maximum emergency load  $P_{GI} = \sum_{c} P_{o} / (-\eta_{c} x - \phi_{c}) x - \alpha$ 

here,

 $\Sigma P_0$ : Total sum of maximum emergency load; 140 kW

 $\eta_{\rm L}$ : Total efficiency; 0.9

 $\phi_L$ : Total power factor; 0.85

 $\alpha$ : Demand factor; 1.0

Say,

$$P_{Gi}$$
= ( 140 / 0.9 x 0.85 ) x 1.0 = 183 kVA

2) Capacity(P<sub>G2</sub>) required to satisfy allowable voltage drop

$$P_{G2} = P_m x \beta x C x Xd' x (1 - \Delta E) / \Delta E$$

here,

P<sub>m</sub> : Maximum motor output; 130 kW

 $\beta$  : Multiple of motor starting current in case of direct starting (Comparing

with its rated current); 6

C: Factor depend on starting method; 0.64 (80% tap of Condorfer)

Xd': Transient reactance of the generator; 0.25

 $\Delta E$ : Allowable voltage drop; 0.25

Say,

$$P_{G2}$$
= 130 x 6 x0.64 x 0.25 x (1-0.25) / 0.25 = 374 kVA

3) Capacity( P<sub>G3</sub> ) required to satisfy to start lastly the motor having maximum rated capacity

$$P_{G3} = \{ (\sum_{m} P_{0} \times \alpha / \eta_{L} - P_{m} / \eta_{m}) + P_{m} \times \beta \times C \times \phi_{S} \} / (\gamma_{G} \times \phi_{G})$$

here,

ΣP<sub>0</sub>: Total sum of maximum emergency loads; 140 kW

 $\alpha$ : Demand factor; 1.0

 $\eta_1$ : Total efficiency; 0.9

P<sub>m</sub>: Maximum motor output; 130 kW

 $\eta_{\rm m}$ : Efficiency of motor having maximum capacity; 0.9

 $\boldsymbol{\beta}$  : Multiple of motor starting current in case of direct starting

(Comparing with its rated current); 6

C: Factor depend on starting method; 0.64 (80% tap of Condorfer)

 $\phi_s$ : Starting power factor of maximum capacity motor; 0.4

 $\gamma_{\rm G}$ : Instantaneous over load factor for the generator; 1.5

 $\phi_G$ : Power factor of the generator; 0.8

Say,

$$P_{G3}$$
= ( 140 x 1.0 / 0.9 - 130 / 0.9 + 130 x 6 x 0.64 x 0.4 ) / ( 1.5 x 0.8 )  
= 176 kVA

Therefore, in consideration of full satisfaction for whole determined capacity items from above 1) to 3), 375 kVA emergency generator ( diesel engine, water radiator cooling type ) shall be furnished at Gothatuwa Pump House.

## 3D6 SUBSTATION FOR GOTHATUWA-KOLONNAWA PUMP HOUSE AND EXISTING ELLIE HOUSE PUMP HOUSE AT AMBATALE WTP

According to NWSDB's plan showing new substation to be installed for Existing Ellie House Pump House and for Gothatuwa-Kolonnawa Pump House, there will be 3 sets of 500 kVA (11 / 0.4 kV) including associated equipment such as switchgear and appropriate protective relays etc.

However, as a result of our study, 700 kVA is assumed as the required receiving power capacity for the Gothatuwa-Kolonnawa Pump House (in Ambatale) to transmit water to Gothatuwa and Kolonnawa area. Likewise, existing Ellie House Pump House must have 500 kVA of the required receiving power capacity.

The substation shall have function to supply necessary power to both pump stations. Accordingly, the followings are to be considered;

1. Transformers

```
11 / 0.4 KV, 3 phase, 700 kVA x 3sets (2 sets for operation, 1set for stand-by)
```

2. 11KV Circuit breakers and Isolators

```
3P, 400A, 25 kA*
```

cf) \* required rupturing capacity  $\{10,000,000 / (\sqrt{3} \times 11,000)\} \times 100 / 5 \times 2 = 20,995 A$ Say, 25 kA Here, 10,000,000: Rated capacity of TR in upstream S/S (10 MVA) 5: Assumed TR impedance (%)

2 : Quantity of TR to be installed in parallel

3. 400V Circuit breakers and Isolators

```
3P, 1250A*, 25KA**
```

```
cf)* required rated capacity 700,000/(\sqrt{3} \times 400) = 1010A

Say, 1250A

Here, 700,000: Rated capacity of TR in the substation cf)** required rupturing capacity \{700,000/(\sqrt{3} \times 400)\} \times 100/5 = 20,207A

Say, 25KA

Here, 700,000: Rated capacity of TR in the S/S (0.7MVA) 5: Assumed TR impedance (%)
```

# **CHAPTER 4**



## APPENDIX 4A

PILOT PROJECT FOR REDUCTION OF NON-REVENUE WATER



## **APPENDIX 4A-1**

LIST OF TENEMENT GARDENS IN NRW REDUCTION PILOT PROJECT AREA

APPENDIX 4A-1 LIST OF TENEMENT GARDENS IN NRW REDUCTION PILOT PROJECT AREA

AFFERDI	A 4A-I LIST OF TENEWIEN	GARDENS IN NEW I	CEDUCTION FILOT	PROJECT AREA		
Serial No.	Name of Tenement Garden	No of households	No of Registered Customers	No of Unregistered Households		
1	440, Grandpass Road	14	4	10		
2	18, Awwal Zavia Road	17	4	13		
3	30, Awwal Zavia Road	12	0	12		
4	46, Awwal Zavia Road	7	3	4		
5	48, Awwal Zavia Road	12	0	12		
6	56, Awwal Zavia Road	20	11	9		
7	164, Awwal Zavia Road	42	0	42		
8	115 , Awwal Zavia Road	17	1	16		
9	94, Awwal Zavia Road	9	1	8		
10	50, Devos lane	48	25	23		
11	51, Devos lane	34	11	23		
12	52, Devos lane	21	7	14		
13	53, Devos lane	5	2	3		
14	54, Devos lane	30	9	21		
15	55, Devos lane	6	2	4		
16	56, Devos lane	3	0	3		
17	57, Devos lane	16	7	9		
18	58, Devos lane	132	8	124		
19	12 + 109 Gemunu lane	6	1	5		
20	14, Gemunu Avenue	10	5	5		
21	15, Gemunu Avenue	6	1	5		
22	16, Gemunu Avenue	20	0	20		
23	48, Gemunu Patumaga	7	3	4		
24	145, Swarna Chatiya Road	50	11	39		
25	22, Swarna Chatiya Road	2	0	2		
26	35, Swarna Chatiya Road	5	1	4		
27	34, Swarna Chatiya Road	9	1	8		
	Total	560	118	442		



## APPENDIX 4A-2

NWSDB BILLING RECORDS OF REGISTERED CUSTOMERS (MAY TO AUGUST 2000)

List of Registered Customers in NRW Reduction Pilot Project Area

			1	Monthly b	illed wa	ter (m3)	1)		Meter Readi	ing Condition	
Serial Pa	ack Account N	No Address	Мау.	Jun.	Jul.	Aug.	Average	Disconnected (1)	Originally Readable (Y)	Readable after Improvement 20	Unreadable after Improvement (F)
1	331 005/13	4/2, Awwal Zavia Rd.,	7	6	7	9	7.25		Y		
2	331 010/16	6, Awwal Zavia Rd.,	34	_19	22	24	24,75		Y	·	
3	331 015/11	8, Awwal Zavia Rd.,	11	1	1	1	3.50		<u>Y</u>		
4	331 020/14	10, Awwal Zavia Rd.,	13	_17	18	18	16.50		Y		·
5	331 025/19	12, Awwal Zavîa Rd.,	20	20	20	20	20.00				ν
6_	331 027/17	14, Awwal Zavia Rd.,	22	22	22	22	22.00		·····	<u>I</u>	
7:	331 030/12	18/3, Awwal Zavia Rd.,	16	12	12	11	12.75		Y		
8	331 035/17	18/5, Awwal Zavia Rd.,	14	10_	12	12	12. <b>0</b> 0	·	Y		
9	331 040/10	18/14, Awwal Zavia Rd.,	21	15	19	16	17.75		<u> </u>		
10	331 045/15	18/16, Awwal Zavia Rd.,	20	22	10	10	15.50		Y		
11	331 050/17	18/19, Awwal Zavia Rd.,	31	30	39	32	33.00		Y	<u> </u>	
12	331 055/12	20, Awwal Zavia Rd.,	25	20	26	29	25.00		Y	·	
13	331 060/15	22, Awwal Zavia Rd.,	40	40	40	40	40.00		<del></del>		ν
14	331 065/10	24, Awwal Zavia Rd.,	22	16_	24	14	19.00		Y	·	
_15_	331 070/13	26, Awwal Zavia Rd.,	28	26	38	35	31.75		Y		<del></del>
16	331 075/18	28, Awwal Zavia Rd.,	40	40	40	40	40.00				· · · · · · · · · · · · · · · · · · ·
17	331 080/11	28A, Awwal Zavia Rd.,	40	40	40	40	40.00				<u> </u>
18	331 085/16	i 32, Awwal Zavia Rd.,	28	32	31	25	29.00		· Y		
19	331 090/19	32A, Awwal Zavia Rd.,	0	0	0		0.00	) <u>v</u>	<u> </u>		
20_	331 095/14	32/1, Awwal Zavia Rd.,	25	25	25	25	25.00	) <del> </del>		R	
21	331 100/17	32/2, Awwal Zavia Rd.,	43	41	38	34	39.00		Y	<del></del>	
22	331 105/12	2 32/2/A, Awwal Zavia Rd.,	22	18	18	15	18.25		Y		
	331 110/15	32/5, Awwal Zavia Rd.,	21	30	35	35	30.25	<del></del>	Y	·	
24:	331 115/10	34, Awwal Zavia Rd.,	40	40	40	4(	40.00	<u> </u>		R	·
25	331 120/1	3 36, Awwal Zavia Rd.,	63	_30	37	38	42.00	<u> </u>	Y	<del></del>	
26	331 125/1	8 38, Awwal Zavia Rd.,	86	77	74	70	78 <u>.2</u> 5	5)	Υ	<del></del>	<del></del>
27	331 130/1	1 40, Awwal Zavia Rd.,	57	17	57	7 5	47.0	<u> </u>		R	<del></del>
28	331 135/1	6 42, Awwal Zavia Rd.,	13	11	17	7 3:	18.00	D	Υ		
29	331 140/1	9 44, Awwal Zavia Rd.,	20			2	20.0	0			ν
30	331 145/1	4 46, Awwal Zavia Rd.,	16	16	16	51	16.0	0	<u>Y</u>		<del></del>
31	331 150/1	6 46/7, Awwal Zavia Rd.,	_40	40	40	0 4	0 40.0	0			ν
32_	331 155/1	1 46/8, Awwal Zavia Rd.,	_ 21	16	20	01	718.5	0	Y		
33	331 160/1	4 46/9, Awwał Zavia Rd.,	10	10	11	0	9 9.7	5	Y	<del></del>	
34	331 165/1	9 50, Awwal Zavia Rd.,		0 0	<u>.                                    </u>	0	0.0	0 <u>v</u>	. <u>.                                   </u>		<del></del>
35	331 170/1	2 52, Awwal Zavia Rd.,		0 0	·	0	0.0	0 <u> </u>			
36	331 171/1	1 52A, Awwal Zavia Rd.,	22	2 22	2 2	2 2	2 22.0	0		I	
37	331 172/1	0 52B, Awwal Zayia Rd.,	2	2 22	22	22	2 22.0	ю		<u>I</u>	
38	331 175/1	17 54, Awwal Zavia Rd.,		20	) 2	0 2	20.0	00		R	

Series Pack				?	Monthly i	oilled wa	ter (m3)	1)		Meter Read	ing Condition	
I .	Pack No.	Account No	Address	May.	Jun.	Jul.	Aug.	Average	Disconnected (V)	Originally Readable (Y)	Readable after Improvement 2)	Unreadable after Improvement (b)
39	331	180/10	56, Awwal Zavia Rd.,	7	7	7	7	7.00			R	
40	331	185/15	56/1, Awwał Zavia Rd.,	32	28	33	35	32.00		Y		
41	331	190/18	56/2, Awwal Zavia Rd.,	14	14	62	34	31.00		Y		<u>.</u>
42	331	195/13	56/3, Awwal Zavia Rd.,	20	20_	20	20	20.00	· · · · · · · · · · · · · · · · · · ·		R	
43	331	200/16	56/4, Awwal Zavia Rd.,	9.	9	9	9	9.00			R	
44	331	205/11	56/5, Awwal Zavia Rd.,	34	49	7.	25	28.75		Y		
45	331	210/14	56/6, Awwal Zavia Rd.,	19	17	14	11	15.25		<u>Y</u>		
46	331	215/19	56/10, Awwal Zavia Rd.,	4	4	_ 4	4	4.00			R	·
47	331	220/12	56/12, Awwal Zavia Rd.,	22	18	21	15	19.00		<u>Y</u>	<del></del> ·	<del></del>
_48	331	225/17	56/18, Awwal Zavia Rd.,	13	11	12	11	11.75		Y	•	
49	331	230/10	56/19, Awwal Zavia Rd.,	10	8	11	9	9.50		Y		
50	331	231/19	110 A, Awwal Zavia Rd.,	132	22	22	22	49.50			<u></u>	v
51	331	235/15	56/20, Awwal Zavia Rd.,	0	0	0	0	0.00	ν			<u> </u>
52	331	240/18	58, Awwal Zavia Rd.,	38	38	38	38	38.00			<u>R</u>	
53_	331	245/13	60, Awwal Zavia Rd.,	24	23	28	<u>2</u> 8	25.75		Y	· <u>-</u>	·
_54	331	255/10	64, Awwal Zavia Rd.,	57	51_	<u>5</u> 5	51	53.50		<u>Y</u>		, <del></del>
55	331	260/13	66, Awwal Zavia Rd.,	0	0	_0	0	0.00	L		·	
56	331	265/18	68, Awwal Zavia Rd.,	23	22	27	25	24.25		Y		
57	331	275/16	70, Awwal Zavia Rd.,	40	41	41	41	40.75		<u>Y</u>		·
58	331	280/19	72, Awwal Zavia Rd.,	30	28	32_	32	30.50		Y		
59_	331	285/14	74, Awwal Zavia Rd.,	0	0	0	0	0.00	L			
60	331	290/17	76, Awwal Zavia Rd.,	0	0	0	0	0.00	ν		<del></del>	· <del></del> -
61	331	295/12	78, Awwal Zavia Rd.,	40	40	40	40	40.00				νν
62	331	300/15	80, Awwal Zavia Rd.,	40_	40	40	_40	40.00			·	<u> </u>
63	331	305/10	82, Awwal Zavia Rd.,	13	13	13	12	12.75		Y		
64	331	310/13	84, Awwal Zavia Rd.,	0	0	0	0	0.00	v			
65	_331	315/18	86, Awwal Zavia Rd.,	25	21	22	21	22.25		Y		
66	331	320/11	90, Awwal Zavia Rd.,	76	66	10	54	51.50		Y		
67	331	325/16	92, Awwał Zavia Rd.,	53	38	56	46	48.25		<u>Y</u>	·· <u>_</u>	<u>, , , , , , , , , , , , , , , , , , , </u>
68	331	327/14	94/8, Awwal Zavia Rd., A.D.A Razak	22	22	22	22	22.00	ļ	· · · · · · · · · · · · · · · · · · ·		ν
69	331	330/19	110, Awwal Zavia Rd.,	0	0	0	_0	0.00	<u> </u>	·	<u>.</u>	
70	331	335/14	114, Awwal Zavia Rd.,	40	40	40	40	40.00			I	·
71	331	340/17	116, Awwal Zavia Rd.,	20	20	20	20	20.00			R	
72	331	345/12	118, Awwal Zavia Rd.,	7	7_	11	14	9.75		Y		
73	331	350/14	120, Awwal Zavia Rd.,	32	36	38	47	38.25		Y		
74	331	355/19	122, Awwal Zavia Rd.,	13	11	17	12	13.25	;	Y		<del></del>
75	331		122/1, Awwal Zavia Rd.,	37	30	35					R	
76	331		124, Awwal Zavia Rd.,	20	20	20						ν
								Γ	T			

[					,	Monthly b	oilled wa	ter (m3)	1)		Meter Read	ing Condition	
Serial No,	Pack No.	Accoun	t No	Address	May.	Jun.	Jul.	Aug.	Average	Disconnected (V)	Originally Readable (Y)	Readable after Improvement 2)	Unreadable after Improvement (V)
7	78 <u>:</u> 3:	31370/	10_	128, Awwal Zavia Rd.,	16	17	17	17	16.75		Y		
7	79 3:	31 375/	15	130, Awwal Zavia Rd.,	50	52_	52	50	51.00		Y		
	30 3	31 376/	14	.140/2, Awwal Zavia Rd.,	32	33	14	30	27.25	<u> </u>	Y		
8	81 3	31 377/	13	140/4, Awwal Zavia Rd.,	20	20	20	20	20.00	<u> </u>		R	
	82 3	31 378/	12	M. A Cader	20	20	20	20	20.00	<u></u>	Y		
	83 3	31 379/	11	140/6, Awwal Zavia Rd., M.D.B.N. Perera	25	25_	25	25	25.00		Y		
8	84 3	31 380/	18	146, Awwal Zavia Rd.,	29	14	25	21	22,25	<u> </u>	Y		
	8 <u>5</u> 3	31 382/	99	140/6B, Awwal Zavia Rd.,	30	30	30	30	30.00	ļ		1	
	86 3	31 385/	13	148, Awwal Zavia Rd.,	11	8	11	10	10.00		Y		
	873	31. 390/	16	150, Awwal Zavia Rd.,	25	25	25	25	25.00			Ř	
	88 3	31 395/	11_	154, Awwal Zavia Rd.,	0	0	0	0	0.00	i i			
	89 3	31_ 400/	14	156, Awwal Zavia Rd.,	0	0	0	0	0.00	<u> </u>			<u>-</u>
-	903	31 405/	19_	158, Awwal Zavia Rd.,	20_	20	20	20	20.00	)		R	·
	91 3	31 410/	12	160, Awwal Zavia Rd.,	14	11	15	_12	13.00		Y	·	
<u> </u>	92 3	331 415	/17_	162, Awwal Zavia Rd.,	9	8	9	9	8.75	3			<u> </u>
ļ	93 3	331 420	/10_	164, Awwal Zavia Rd.,	40	40	40	40	40.00				<u> </u>
<u> </u>	94 3	331 425	772	M.C.Building	120	120	120	120	120.00			·	v
	95 3	331 430	/18	141, Awwal Zavia Rd.,	23	21	27	22	23.25	5	<u>Y</u>		
-	963	331 435	/13	139/5, Awwal Zavia Rd.,	16	15	17	13	15.25	5	Y		
-	97 3	331 440	/16	135, Awwai Zavia Rd.,	20	20	20	20	20.00	<u> </u>		R	
	98 3	331 445	/11	131, Awwal Zavia Rd.,	7	7	7		7.00		<del> </del>		<u> </u>
-	99	331 450	/13	125, Awwal Zavia Rd.,	11		6		7.00		Y		
1	100 3	331 455	/18	123, Awwal Zavia Rd.,	2	2	2		2.00	0	Y		
<u> </u>	101	331 460	/11	115/3, Awwal Zavia Rd.,	0	0	0		0.00	0	<del></del>		<del> </del>
1	102	331 465	/16	105A, Awwal Zavia Rd.,	16	32	28	29	26.2	5	Y		
1-2	103	331 470	/19	105, Awwal Zavia Rd.,	14	14	14	1	14.0	0		R	
1	104	331 475	/14	103A, Awwal Zavia Rd.,	20	20	20	21	20.0	0			
1	105	331 476	5/13	103, Awwal Zavia Rd., 101, Awwal Zavia Rd., P.M.	132	22	22	. 2	49.5	0			<u> </u>
;	106	331 480	<u>)/1</u> 7	Amarulla	1	1		·	1 1.0	0		<u></u>	<u>ν_</u>
-	107	331 485	5/12	99/3, Awwal Zavia Rd.,	20	20	20	2	20.0	0		R	
	108	331 490	0/15	99/2, Awwal Zavia Rd.,	53	53	53	55	3 53.0	o		R	
	109	331 49	5/10	99/1, Awwal Zavia Rd.,	65	52	. 40	) 4	3 50.0	0	Y		
	110	331 490	6/19	99/1A, Awwal Zavia Rd.,	22	. 22	23	2 2	2 22.0	00	<del></del>		
-	111	331 500	0/13	99, Awwal Zavia Rd.,	14	9	2	2 2	2 16.7	75	Y		
_	112	331 50	5/18	97/1, Awwal Zavia Rd.,	20	20	)2	) _2	0 20.0	00		R	
	113	331 51	0/11	97, Awwal Zavia Rd.,	. 58	50	4	34	3 48.5	50	Y		
	114	331 51	5/16	93, Awwal Zavia Rd.,	24	F 15	7 2	I <u> </u>	8 20.0	00	Y		
<u> </u>	115	331 52	0/19	91, Awwal Zavia Rd.,	35	53(	2	62	29.5	50	Y		
	116	331 52	5/14	89, Awwal Zavia Rd.,	2	7 27	7 2	7 2	27.0	00		R	

				1	Monthly b	oilled wa	ter (m3)	1)		Meter Readi	ng Condition	
	Pack No.	Account No	Address	May,	Jun.	Jul.	Aug.	Average	Disconnected (V)	Originally Readable (Y)	Readable after Improvement 21	Unreadable after Improvement (L)
117	331	530/17	87, Awwal Zavia Rd.,	36	36	36	36	36.00				<u> </u>
118	331	535/12	85, Awwal Zavia Rd.,	41	33	37	38	37.25		Y		
119	331	540/15	83, Awwal Zavia Rd.,	35	40	46	46	41.75			:	. <u>v</u>
120	331	545/10	81, Awwal Zavia Rd.,	40	41	41	17	34.75	 	Y		·
121	331	550/12	79A, Awwal Zavia Rd.,	0	0	0	0	0.00	ν			
122	331	555/17	79, Awwai Zavia Rd.,	34	34	34	34	34,00			R	
123	331	560/10	77, Awwai Zavia Rd.,	34	30	36	36	34.00		<u>Y</u>		<del></del>
124	331	565/15	75, Awwal Zavia Rd.,	32	24	27	24	26,75		Y		
125	331	570/18	73, Awwal Zavia Rd.,	0	0_	0	0	0.00	ν		·	····
126	331	575/13	71, Awwal Zavia Rd.,	0	00	0	0	0.00	· ·	·	<del></del> _	<del></del>
127	331	580/16	67, Awwal Zavia Rd.,	35	22	27	32	29.00		Y	<del>: _</del>	
128	331	585/11	65, Awwai Zavia Rd.,	0	0	0	0	0.00	ν			
129	331	590/14	63, Awwal Zavia Rd., 61, Awwal Zavia Rd., A. U.	40	40	40	40	40,00				ν
130	331	591/13	Zarcena 61A, Awwal Zavia Rd., A. R.	18	_23	44	37	30.50		<u>Y</u>		
131	331	595/19	Ahamed	18.	19	40	43	30.00		Y	<del> </del>	
132	331	600/12	59, Awwal Zavia Rd.,	21	19	25	23	22.00		Y		
133	331	605/17	57, Awwal Zavia Rd.,	35	31	36	34	34.00		Y	<del></del>	<del>,</del>
134	331	610/10	55, Awwal Zavia Rd.,	40	40	46	46	43.00		<u>Y</u>		<del></del>
135	331	615/15	53A, Awwal Zavia Rd.,	0	0	0	0	0.00	<u>ν</u>		·	
136	331	620/18	53, Awwal Zavia Rd.,	0	0	0	0	0.00	ν			
137	331	625/13	51, Awwal Zavia Rd.,	31	24	30	28	28.25	<u> </u>	<u> Y</u>		
138	_331	630/16	51A, Awwal Zavia Rd.,	23	25	23	25	24.00		Y		
139	331	635/11	49, Awwal Zavia Rd.,	17	15.	18	15	16.25		<u> Y</u>		<del></del>
140	331	640/14	47, Awwal Zavia Rd.,	0	0	0	0	0.00	i i	<u></u>		
141	331	645/19	45, Awwal Zavia Rd.,	24	24.	24	24	24.00			·	<u> </u>
142	331	650/11	43, Awwal Zavia Rd.,	30	31	29	33	30.75		Y	<del></del>	
143	331	655/16	41, Awwal Zavia Rd.,	0	0	0	0	0.00	Ľ.		<del></del>	
144	331	660/19	39, Awwal Zavia Rd.,	26	24	26	21	24.25		Y		
145	331	665/14	35, Awwai Zavia Rd.,	24	4:	11	10	12.25				<u> </u>
146	331	670/17	33, Awwal Zavia Rd.,	26_	26	26	26	26.00	ļ	Y		
147	331	675/12	31, Awwal Zavia Rd.,	0	0	0	0	0.00	ν_		<del></del> -	
148	331	680/15	29, Awwai Zavia Rd.,	20	20_	20	20	20.00	-	Y		
149	331	685/10	27, Awwal Zavia Rd., 25/A, Awwal Zavia Rd., H.	71	62	79	62	68.50	<del> </del>	Y		
150	331	690/13	Umma	40	26	33	34	33.25		<u>Y</u>		
151	331	695/18	23/2, Awwal Zavia Rd.,	13	12	14	11	12.50	<del> </del>	Y	· · · · · · · · · · · · · · · · · · ·	
152	331	700/11	23/1, Awwal Zavia Rd.,	40	40	40	40	40.00	·			<u> </u>
153	331	705/16	23, Awwal Zavia Rd.,	40	40	40	40	40.00			· · · · · · · · · · · · · · · · · · ·	ν ν
154	331	710/19	21, Awwal Zavia Rd.,	183	154	174	169	170.00		Y		
155	331	715/14	19B, Awwal Zavia Rd.,	0	0	0	0	0.00	) <u> </u>	·		

Serial Pack				N	ionthly b	illed wat	ter (m3)	1)		Meter Readi	ing Condition	
	Pack No.	Account No	Address	May.	Jun.	Jul.	Aug.	Avcrage	Disconnected (1)	Originally Readable (Y)	Readable after Improvement 2)	Unreadable after Improvement (L)
156	331	720/17	19A, Awwal Zavia Rd.,	20	20	20	20	20.00				レ
157	331	725/12	19, Awwal Zavia Rd.,	9	8	_ 8	6	7.75	<u> </u>	Y	<del></del> .	
158	331	730/15	17, Awwal Zavia Rd.,	0	0	0	0	0.00	ν :			
159	331	735/10	9, Awwał Zavia Rd.,	31	28_	32_	28	29.75		<u>Y</u>	· 	
160	331	740/13 10/31/331/7	5, Awwal Zavia Rd.,	22	20	23	21	21.50	·	Y	<del></del> -	
161	331	2 10/31/331/7	62, Awwal Zavia Rd.,	0	0	_ 0	0	0.00		Y		
162	331	3	140/7, Awwal Zavia Rd.,	0_	0	0	0	0.00		Y		
163	837	021/19	No 15 Molawatta Rd.	22	22	22	22	22.00			I	
164	837	035/13	No 7, Molawatta Rd.	_10	16	_13	19	14.50	<u> </u>	Y	,	
165	837	040/16	No 5, Molawatta Rd.	22	22:	22	_22	22.00			I	- <del></del>
166	837	105/18	No 2/1, Gemunu lane,	40	_43	_43	43	42.25	<u> </u>		R	·
167	837	110/11	No 2/2, Gernunu lane,	32		34	34	32.25		Υ		
168	837	115/16	No2/4, Gemunu lane		8	_ 9	9	11.50		Y		
169	837	120/19	No 2/6, Gernunu Lane,	16_	16	16	16	16.00			R	
170	837	125/14	No 11, Gemunu lane,	11_	11	11	11	11.00				<u>\</u>
171	837	130/17	No 4, Gemunu Lane,	0	0	0	0	0.00	ν ν			
172	837	135/12	No 17, Gemunu Lane,	_17	17	20	20	18.50	)	Y		
173	837	140/15	No 6, Gemunu Lane,	16	17	20	20	18.25	<u>,                                    </u>	Y		
174	837	141/14	No 7 Gemunu lane,	10	9	11	11	10.25	5	Y		<del></del>
175	837	145/10	No 4/5, Gemunu Lane	30	30	30	30	30.00			R	
176	837	150/12	No 12A, Germunu lane ,	30	30	30	30	30,00			I	
177	837	155/17	No12B, Gemunu lane,	24	17_	20	20	20.25	5	Y		<u> </u>
178	837	160/10	No 14/1, Gemunu Lane,	10	10	10	10	10.00	0		R	
179	837	165/15	No 14/2 Gemunu Lane,	34	20	23	23	25.00	0	Y		
180	837	170/18	No 14/8A Gemunu Lane,	9	10		10	9.7	5	Y		· · · · · · · · · · · · · · · · · · ·
181	837	175/13	No14/9 Gemunu Lane	0	0	0	· (	0.0	0 V	<u> </u>		
182	837	180/16	No14/10 Gemunu Lane,	11	11	13	1	1 11.0	0		R	
183	83	185/11	No 18, Gemunu Lane,		0	0		0.0	0 2			
184	83	7 186/10	No 20, Gemunu lane	30	30	30	30	30.0	0			ν
185	83	7 190/14	No 28A Gemunu lane	7	· ·			7 6.7	5	Y		
186			No 28, Gemunu Lane	30								ν
187			No 28B , Gemunu Lane	7				8 7.7		Y		
188		·· <u>···</u>	No 30, Gemunu Lane	14				T			R	
189			No 30/2, Gemunu lane,	25						Y		
190								2 22.0		Y		
191				41				2 33.2	7	Y		
192								20.0	7	Y		
				Ī				1		<u>г</u>		
192	3 83	7 225/13	No 48/3, Gemunu Lane, Coll-	4 21	21	. 21	2	21.0	₽∟	I		

		<del>-</del>		1	Monthly l	oilled wa	iter (m3)	1)		Meter Readi	ng Condition	
	Pack No.	Account No	o Address	May.	Jun.	Jul.	Aug.	Average	Disconnected (1)	Originally Readable (Y)	Readable after Improvement 23	Unreadable after Improvement (1)
194	837	226/12	No 48/4, Germunu lane,	19	7	8	8	10.50		Y		
195	837	230/16	No 54, Gemunu Lane,	20		20	20	20.00				ν
196	837	231/15	No T55, Gemunu Lane,	22	_ 22	22	22	22.00				V
197	837	235/11	No 68/8, Gemunu Lane,	31	31	31	31	31.00		<u> </u>		
_198	837	245/19	No140/5, Gemunu Lane,	27	27	27	27	27.00		<del></del>	R	
199	837	260/19	No 140/1, Gernunu Lanc,	17	17	17	17	17.00		<del></del>	R	·
200	837	265/14	No140/7, Gemunu Lane,	20	36	41	41	34.50		Y		
201	837	300/11	No T68/20, Gemuna Lane,	22	22	22	22	22.00			1	. <del></del>
202	837	305/16	No T68/24, Gemunu Lane,	22	22	22	22	22.00				<u>_</u>
203	837	310/19	No T68/25, Gemunu Lane,	22	22	22	22	22.00		· —————	I	
204	837	315/14	No T68/46, Gernunu Lane,	22	22	22	22	22.00			I	
205	837	320/17	No T68/49, Gemunu Lane,	22	22	22	22	22.00				<i>v</i>
206	837	325/12	No T68/50A, Gemunu Lane,	22	22	22	22	22.00			I	
207	579	005/17	5,Swarna Chaithya Rd.,	30	30	42	30	33.00		<u>Y</u>		, <b>-</b>
208	579	006/16	7,Swama Chaithya Rd.,	22	22	22	22	22.00	<u> </u>	<b></b>	<u>I</u>	<del></del>
209	579	010/10	9,Swama Chaithya Rd.,	2	2		2	2.00		<del></del>	R	J
210	579	015/15	11,Swarna Chaithya Rd.,	19	20	6	10	13.75		Y		
211	579	020/18	15,Swarna Chaithya Rd.,	20	10	13	9	13,00		Y		
212	579	025/13	17,Swarna Chaithya Rd.,	23_	20	22	24	22.25		<u>Y</u>		
213	<u>57</u> 9	030/16	19,Swarna Chaithya Rd.,	47	47	47	47	47.00				<u>v</u>
214	579	035/11	21,Swarna Chaithya Rd.,	24	24	24	24	24.00	<u> </u>			ν
215	579	040/14	23,Swarna Chaithya Rd.,	21	22	13	13	17.25		Y		
216	579	045/19	25,Swarna Chaithya Rd.,	10	13	45	29	24.25		<u>Y</u>		·
217	579	050/11	33,Swarna Chaithya Rd.,	25	24	24	26	24.75	-	<u>Y</u>		
218	579	055/16	35/3,Swarna Chaithya Rd.,	20	20	20	20	20.00			R	
219	579	060/19	37,Swarna Chaithya Rd.,	15	15	15	15	15.00	<del></del>		R	
220	579	065/14	39,Swarna Chaithya Rd.,	10	13	10	10	10.75		<u> </u>	<del></del>	
221	579	070/12	51,Swarna Chaithya Rd., 41-53,Swarna Chaithya Rd.,	12	11	12	12	11.75	<del></del>			ν
222	579	075/12	CAB	30	30	30	30	30.00	-			<u> </u>
223	579	080/15	59,Swarna Chaithya Rd.,	5	5	5	5	5.00			<u>R</u>	
224	579	085/10	63,Swarna Chaithya Rd.,	15	14	12	_14	13.75	<u> </u>	Y	<del></del>	
225	<i>5</i> 79	090/13	65,Swarna Chaithya Rd.,	26_	27	28	29	27.50	<u> </u>		R	<u> </u>
226	579	095/18	67,Swarna Chaithya Rd.,	28	16	17	16	19.25		Y	. <del></del>	<del>-</del>
227	579	100/11	69,Swarna Chaithya Rd.,	24	24	24	24	24.00			I	
228	579	105/16	71,Swarna Chaithya Rd.,	22	33	30	33	29.50	\	<u>Y</u>	<u>_</u>	_/
229	579	110/19	73,Swarna Chaithya Rd.,	16	16	17	33	20.50		Y		
230	579	115/14	85,Swarna Chaithya Rd.,		20	20	20	20.00		· · · · · · · · · · · · · · · · · · ·	R	
231	579	120/17	109/1, Swarna Chaithya Rd.,	17		17.	17	17.00				
232	579	125/12	115,Swarna Chaithya Rd.,	0_	0	0	0	_0.00				

				1	Monthly b	oilled wa	ter (m3)	1)		Meter Readi	ing Condition	
Scrial No.	Pack No.	Account No	Address	May.	Jun.	Jul.	Aug.	Average	Disconnected (1-)	Originally Readable (Y)	Readable after Improvement 29	Unreadable after Improvement (L)
233	579	130/15	115/1/1,Swarna Chaithya Rd.,	0	0	0	0	0.00	<u> </u>			a
234	579	135/10	117,Swarna Chaithya Rd.,	20	20	0	8	12.00				<u> </u>
235	579	136/19	145/4,Swarna Chaithya Rd.,	22_	22	22	22	22.00			I	
236	579	140/13	121,Swarna Chaithya Rd.,	87	88	93	155	105.75	<u> </u>	<u>Y</u>		
237	579	141/12	145/1,Swarna Chaithya Rd.,	22	22	22	22	22.00			I	
238	579	142/11	T 85,Swarna Chaithya Rd.,	22	22	22	22	22.00	<u> </u>		I	
239	579	145/18	145A,Swarna Chaithya Rd.,	10	10	10	10	10.00			R	
240	579	146/17	145/3 B,Swarna Chaithya Rd.,	22	22	22_	22	22.00			1	
241	579	150/10	145/3A,Swarna Chaithya Rd.,	23_	25	28	30	26.50			C	
242	579	161/17	145/16,Swarna Chaithya Rd.,	132	22_	22	22	49.50			I	
243	3 57	9 165/96	145/17,Swarna Chaithya Rd.,	30	30	30	30	30.00				ν
244	4 57	170/16	145/18,Swarna Chaithya Rd., K.D. Punnawathie	5	3	2	3	3.25			R	· . — — — — .—
245	5 57	9 171/15	145/18,Swarna Chaithya Rd., K.D. Dayawathie	22	22	22	22	22.00		···· <b>-</b> ··-··	<u> </u>	
246	5 57	9 172/14	145/18,Swarna Chaithya Rd., R. Karunawathie	22	22	22	22	22.00			I	
24	7 57	9 175/11	164,Swarna Chaithya Rd.,	0	0	0		0.00	L L			
248	8 57	9 180/14	162,Swarna Chaithya Rd.,	0	0	0	(	0.00	V V			
24	9 57	9 190/12	158,Swarna Chaithya Rd.,	0	0	0	(	0.00	ν ν			
25	0 57	9 195/17	156,Swama Chaithya Rd.,	23	25	25	29	25.50	)	<u>Y</u>	·	
25	1 57	9 200/10	154,Swarna Chaithya Rd.,	25	22	16	21	21.00	)	Y		
25	2 57	9 205/15	152,Swarna Chaithya Rd.,	92	92	92	92	92.00		Y		
25	3 57	9 206/14	145/15/B/B,Swarna Chaithya Rd.,	22	22	22	2	22.00			I	
25	4 57	9 210/18	150,Swarna Chaithya Rd.,	0	0	0		0.00	)v			
25	5 57	9 211/17	145/15/C,Swarna Chaithya Rd.,	22	_ 22	22	2:	2 22.00			I	
25	6 57	9 215/13	144,Swarna Chaithya Rd.,	0	0	0		0.00	) V			
25	7 57	9 220/16	Jayanthi Vidyalaya (School)	40	40	40	41	40.00				V
25	58 57	9 221/15	148,Swarna Chaithya Rd.,	22	22	22	. 2	2 22.00	0			V
25	59 57	9 225/11	90, Swarna Chaithya Rd., Jayathilakaramaya Temple	80	35	20	1	7 38.00	0	Y		
26	50 5	79 230/14	66,Swarna Chaithya Rd.,	30			3	4 33.0	0	Y		
26			64,Swarna Chaithya Rd.,	25		-					R	
26		79 240/12	60/2,Swarna Chaithya Rd.,	20				1	T	Y		
26		79 245/17	60/1,Swarna Chaithya Rd.,	40				1	T	Y		
		79 250/19	60,Swarna Chaithya Rd.,	,				9 10.5	<u> </u>	Y		
		79 255/14	58,Swarna Chaithya Rd.,	20				6 16.5	1	Y		
		79 260/17		15				6 33.2	1	<u></u> у		
{		79 265/12		10			5	7 6.2		Y		
		79 270/15		1.				33.0		Y		
		79 275/10		20				20.0		<u>*</u>	R	
		79 280/13		2:				23.0	T		. R	
12	71 5	79 285/18	34/6,Swarna Chaithya Rd.,	2	2 1	1 1	7, , ,1	18.0	וטן	Y		

		· · ·		1	Monthly b	illed wa	ter (m3)	1)		Meter Read	ng Condition	
Serial No.	Pack No.	Account No	Address	May.	Jun.	Jul.	Aug.	Average	Disconnected (レ)	Originally Readable (Y)	Readable after Improvement 29	Unreadable after Improvement (४)
272	579	290/11	16,Swarna Chaithya Rd.,	19	20	20	20	19.75			R	
273	579	295/16	14,Swarna Chaithya Rd.,	19	22	25	21	21.75		Y		
274	579	296/15	14/15 G,Swarna Chaithya Rd., MHF Zinaya	22	22	22	22	22.00			I	
275	575	430/10	368, Grandpass Rd.,	0	0	0	0	0.00	<u> </u>			<del></del>
276	575	435/15	372,Grandpass Rd.,	126	126_	126	126	126.00		Y		
277	575	440/18	372B,Grandpass Rd.,	112	61	65	81	79.75		Y		
278	575	445/13	376,Grandpass Rd.,	20	20_	20	2	15.50		Y		<del></del>
279	575	450/15	378,Grandpass Rd.,	8	5	7	15	8.75		Y	-,	
280	575	455/10	382,Grandpass Rd.,	0	0	0	0	0.00	ν			
281	575	460/13	386,Grandpass Rd.,	0	0	0	0	0.00	ν			<del></del>
282	575	465/18	390,Grandpass Rd.,	20	20	20	15	18.75				<u>\</u>
283	575	470/11	392, Grandpass Rd.,	4_	2	2_	5	3.25		Y		
284	575	475/16	396,Grandpass Rd.,	20	20	20	20	20.00				<u>v</u>
285	575	480/19	404,Grandpass Rd.,	0	0_	0	0	0.00	\b	<u> </u>	,	
286	575	485/14	406, Grandpass Rd.,	0	0	0	1	0.25		<u>Y</u>		
287	575	490/17	410,Grandpass Rd.,	42	18	19	31	27.50		<u>Y</u>		
288	575	495/12	412,Grandpass Rd.,	0	0	0	0	0.00	v			···
289	575	500/15	414,Grandpass Rd.,	21	21	7	20	17,25		<u>Y</u>		····
290	575	505/10	418, Grandpass Rd.,	20	20	20	20	20.00		<u>Y</u>		
291	575	510/13	420,Grandpass Rd.,	19	23	26_	26	23.50		<u>Y</u>		
292	575	515/18	422,Grandpass Rd.,	14	16	18	18	16.50		Y		
293	575	520/11	428,Grandpass Rd.,	93	59	79_	101	83.00	- 	<u>Y</u>		
294	575	525/16	430, Grandpass Rd.,	9	44	5_	8	6.50		<u>Y</u>		<del> </del>
295	575	530/19	432, Grandpass Rd.,	0	0	0	0	0.00	<u></u>	·		
296	575	535/14	440, Grandpass Rd., G.G. Peiris	100	50	21	10	45.25		<u>Y</u>		
297	575	540/17	440/2, Grandpass Rd.,	21	18	9	18	16.50		Y		
298	575	545/16	440/4,Grandpass Rd.,	0	0	0	0	_0.00	<u></u> μ			
299	575	550/14	440/10,Grandpass Rd.,	25	16	18	24	20.75		Y		
300	575	555/19	440/12,Grandpass Rd.,	0	0	0	0	_0.00	レ			
301		560/12	444, Grandpass Rd., Letchumi Jewellers	17	10	10	24			Υ		
302		565/17	444, Grandpass Rd., Sirisala Stores	0	0	0	0					
303		566/16	446,Grandpass Rd.,	36	16	31	37					V
304		570/10	450,Grandpass Rd.,	10	10	10	10					V
305		10/31/575/T	408, Grandpass Rd., R.M.K. Waragoda (Jeweraly Shop)	0	0	0	0				I	
306		11/31/575/0		72	72	72	72			Y		
307	·	11/31/575/0	448, Grandpass Rd., Hotel de Grandpass	127	127	127	127			v		·
308			24/1, De Vos Lane,	5	6					Y		<del>-</del>
[				· · · · · · · · · · · · · · · · · ·		14	13			<u> </u>		
309	•		24/2, De Vos Lane,	17	17	17	<u>17</u>				R	
310	835	015/11	26, De Vos Lane,	6	5	6	6	5.75	1	Y		

	<del></del>			N	Monthly t	illed wa	ter (m3)	1)		Meter Readi	ing Condition	
	Pack No. A	ccount No	Address	May.	Jun.	Jul.	Aug.	Average	Disconnected (V)	Originally Readable (Y)	Readable after Improvement 29	Unreadable after Improvement (1/2)
311	835	020/14	28, De Vos Lane,	31	31	31	31	31.00			R	
312	835	025/19	30, De Vos Lane,	48	34	41	38	40.25		<u> </u>	·	
313	835	030/12	32, De Vos Lane,	42	33	22	30	31.75		Y		
314	835	035/17	34, De Vos Lane,	26		27	32	28.00		у		
315	835	040/10	36, De Vos Lane,	33	33	4	12	20.50		Y		
316	835	045/15	38, De Vos Lane,	41	41	41	41	41.00	·	·	R	
317	835	050/17	40, De Vos Lane,	38	30	45	38	37.75	<del>-</del>	Y		
318	835	055/12	40/4, De Vos Lane,	13	12	21	19	16.25	<u> </u>	<u>Y</u>		
319	835	060/15	42, De Vos Lane,	10	10	10	10	10.00		<u>Y</u>		
320	835	065/10	44/1, De Vos Lane,	43	30_	41	41	38.75	· · -	<u>Y</u>		<del></del>
321	835	070/13	44/2, De Vos Lane,	35_	19	22	19	23.75	<u> </u>	Y		
322	835	075/18	44/5. De Vos Lane,	23	18	22	20	20.75	<u> </u>	<u> </u>		
323	835	080/11	44/7, De Vos Lane,	20	20	20	20	20.00			R	
324	835	085/16	44/10, De Vos Lane,	10	10	10	10	10.00		<u>Y</u>		······································
325	835	090/19	44/11, De Vos Lane,	20	20	20	20	20.00			<u>R</u>	
326	835	095/14	44/12. De Vos Lane,	21_	22	22	11	19.00	†	<u> </u>		
327	835	100/17	50, De Vos Lane,	18	14	17	17	16.50		<u>Y</u>		
328	835_	105/12	50/1, De Vos Lane,	14	16	20	20	17.50	·	<u>Y</u>		
329	835	110/15	50/2, De Vos Lane,	46	46	35	1:	34,50	)	Y		
330	835	115/10	50/3, De Vos Lane,	42	30	42	39	38.25		Y		
331	835	120/13	50/4, De Vos Lane,	16	13	17	1:			<u>Y</u>		
332	2 835	122/11	50/5, De Vos Lane,	61	138	24	2	61.00	)	<u>Y</u>		
333	835	125/18	50/6, De Vos Lane,	30	.22	25		24.25		Y		
334	4 835	130/11	50/7, De Vos Lane,	10	22	19		0 17.75	5	<u>Y</u>		
335	5 835	135/16	50/8, De Vos Lane,	33	33	33	3 2	8 31.75	5	<u>Y</u>		
33	6 835	140/19	50/15, De Vos Lane,	11	11		11	1 11.0	0	<u>Y</u>		- ·
33		145/14	50/16, De Vos Lane,	23				T			R	
33		150/16	50/17, De Vos Lane,	63					T	Y		
33		155/11	50/19, De Vos Lane,	20							Ř	
34		160/14	50/20, De Vos Lane,	13						Y	<u>-</u>	
34		165/19	50/22, De Vos Lane,	28				35.0	1 -	<u>Y</u>		<del></del>
34			50/23, De Vos Lane,	14			·	15.2		<u>Y</u>	·	
34				38				38.0		Y		
34				22				26.0		Y		
[ -	835			26				2 8.0		Y		
1	16 835			53				49.5	Ţ	Y		
34				. 21				19 20.2	_	, ¥		
34	18 835	200/16	50/31, De Vos Lane,	3.4	26	3	2	28.5	pul .	Y		

		<u> </u>		1	Monthly l	pilled wa	ter (m3)	1)		Meter Read	ing Condition	
	Pack No.	Account No	o Address	May.	Jun.	Jul,	Aug.	Average	Disconnected (1)	Originally Readable (Y)	Readable after	Unreadable after Improvement (5)
349	835	205/11	50/32, De Vos Lane,	21	21	21	21	21.00		Y		
350	835	210/14	50/33, De Vos Lane,	9	8	6	9	8.00		Y		
351	835	215/14	54, De Vos Lane,	3	3	3	3	3.00		Y		···
352	835	219/15	56/5, De Vos Lane,	10	7	9	10	9.00		Y		·
353	835	220/12	56/4, De Vos Lane,	15	16	16	16	15.75			R	
354	835	225/17	56/6, De Vos Lane,	33	30	41	32	34.00		<u>Y</u>		
355	835	230/10	56/7, De Vos Lane,	7	10	4	5	6.50		Y		
356	835	235/15	70/31, De Vos Lane,	9	9	9	9	9.00				<u> </u>
357	835	240/18_	56/23, De Vos Lane,	15	13	16	15	14.75			R	
358	835	245/13	56/25. De Vos Lane,	37	10	4	4	13.75		<b>Y</b>		
359	835	250/15	56/29, De Vos Lane,	20	20	20	. 20	20.00			R	·
360	835	255/10	56/30, De Vos Lane.	21	16	21	15	18.25		<u>Y</u>		
361	835	256/19	56/31, De Vos Lane,	40	40	40	40	40.00	\		<u> </u>	
362	835	260/13	56/38, De Vos Lane,	6	6_	6	. 6	6.00		<del></del>	R	
363	835	265/18	56/39, De Vos Lane,	25	18	16	11	17.50		Y		
364	835	270/11	58, De Vos Lane,	17		18	21	18.25		Y		
365	835	275/16	64, De Vos Lane,	0	0	0	0	0.00	<u> </u>			
366	. 835	280/19	68, De Vos Lane,	20	20	20	20	20.00			R	<del></del>
367	835	285/14	70/7, De Vos Lane,	10	10	10	10	10.00	<u></u>	·····	R	
368	835	290/17	70/8, De Vos Lane,	20	20		20	20.00		Y		
369	835	295/12	70/9, De Vos Lane,	6	4_	4	4	4.50		<u>Y</u>	<del></del>	·
370	835	300/15	70/10, De Vos Lane,	17	17	17	17	17.00		- <del>-</del> -	<u>R_</u>	
371	835	305/10	70/32, De Vos Lane,	37	10	35	25	26.75	<u> </u>	Y		····
372	835	310/13	70/37, De Vos Lane,	25	9	22	26	20.50		<u>Y</u>		<del></del>
373	835	315/18	70/38, De Vos Lane,	17	38	35	33	30,75		Y	<del></del>	
374	835	320/11	72, De Vos Lane,	20	20	20	20	20.00			R	
375	835	325/19	159, De Vos Lane,	17	15	19	24	18.75		<u>Y</u>		
376	835	330/19	157, De Vos Lane,	20	16	24	19	19.75		· Y		····
377	835	335/14	155, De Vos Lane,	15	12	4	27	14.50		Y		
378	835	340/17	153A, De Vos Lane,	30	32_	35	33	32.50		<u>Y</u>		
379	835	341/16	137, De Vos Lane,	55	55	55	55	55.00	H		R	
380	835	343/14	153/A, De Vos Lane, P. Perera	0	0	0	0	0.00		<u> </u>		
381	835	345/12	153, De Vos Lane, C. N.M.M Casim	19	27	34	48	32.00	<u></u>	<u> </u>		
382	835	350/14	151A. De Vos Lane,	2	2	2	2	2.00	<u></u>	<u>Y</u>		
383	835	355/19	151, De Vos Lane,	14	14	14	14	14.00			angeria a arri	V
384	835	360/12	149, De Vos Lane,	0	0	0	0		ł	·		
385	835	362/10	147, De Vos Lane,	22	22	22					R	
386	835	365/19	139, De Vos Lane,	30	30	30			1		R	

Dogle				N	ionthly b	illed wat	er (m3)	1)		Meter Readi	ing Condition	
	Pack No.	Account No	Address	May.	Jun.	Jul.	Aug.	Average	Disconnected ()	Originally Readable (Y)	Readable after Improvement <sup>21</sup>	Unreadable after Improvement (>)
387	835	370/10	73, De Vos Lane.		28	28	28	28.00			R	
388	835	375/15	71, De Vos Lane.	36	36	36	36	36.00		_ <del>_</del>	R	
389	835	380/18	69/17/A, De Vos Lane,	20	20_	20	20	20,00		<u>Y</u>		
390	835	385/13	69/17, De Vos Lane,	37_	20	21	24	25.50		Y		
391	835	390/16	69/16, De Vos Lane,	12	8	10	13	10.75		<u>Y</u>	Na	
392	835	395/11	69/12, De Vos Lane,	20	20	20	20	20.00		<del></del>	R	
393	835	400/14	69/11, De Vos Lane,	10	8	9	11	9.50		<u> </u>		
394	835	405/19	69/10, De Vos Lane,	11	_10_	12	12	11.25	<u> </u>	Y		
395	835	410/12	69/9, De Vos Lane,	24	20	28	24	24.00	 	<u>Y</u>	<del></del>	
396	835	415/17	65/1/2, De Vos Lane, A.L. Mohamed	48	32	39	38	39.25		Y		
397	835	420/10	65/1/1, De Vos Lane, S. Singham	64	48	66	50	57.00		<u> Y</u>		
398	835	425/15	65, De Vos Lane.	29	23	33	28	28.25		<u>Y</u>		
399	835	430/18	63, De Vos Lane.	25	28	24	20	24.25		YY		
400	835	435/13	61, De Vos Lane,	15	13	14	25	16.75		Y		,,
401	835	440/16	59, De Vos Lane,	37	28	37	41	35.75	·	<u>Y</u>		
402	835	445/11	57, De Vos Lane,	42	42	42	42	42.00			<u>c</u>	
403	835	450/13	55, De Vos Lane,	20	18	8	41	21.75		<u> Y</u>		
404	835	455/18	53, De Vos Lanc,	52	34_	35	29	37.50	<u> </u>	Y	·	
405	83	460/11	51, De Vos Lanc.	40	40	40	40	40.00	)	Y	<del></del>	
406	83	465/16	49, De Vos Lane,	15	15_	15	15	15.00	<u> </u>			<u></u>
407	83:	470/19	43/1, De Vos Lane,	19	13	17	14	15.75	5	<u>Y</u>	·	
408	83:	475/14	43, De Vos Lane,	3	3	3	3	3.00	·	<u> </u>		
409	83	5 480/17	41, De Vos Lane,	8	7	9	5	7.25	5			<u> </u>
410	83	485/12	39, De Vos Lane.	9	10	12	12	10.75	<u> </u>	<u>Y</u>		
411	83	5 490/15	31/2, De Vos Lane,	26	26	26	26	26.0	o			ν
412	83	5 495/10 11/31/835/	31, De Vos Lane,		0	0		0.00	0 <u>ν</u>			
413	83		Volanka Pvt, Ltd.	170	159	151	159	159.7	5	<u>Y</u>		
			Total	10165	8996	9423	9394	9494.50	45		92	51

- Consumption data is based on billing record for the period of May to August 2000 available at NWSDB
   13 domestic customers billed Rs.400 every month are assumed to have consumed 40 m3 per month
   1 commercial customer billed Rs.3500 every month is assumed to have consumed 120 m3 per month
   3 domestic customers billed Rs.35 every month are assumed to have consumed 10 m3 per month 1)
- 2)
- I: meter InstalledR: meter ReplacedC: meter Cleaned



## APPENDIX 4A-3

RECORDS OF METER READING ON REGISTERED CUSTOMERS



## SUMMARY OF METER READING RESULT FOR REGISTERED CUSTOMERS

Summary of 1st & 2nd Meter Reading Result

	Number of Registered	Number of	Number of Meter	Monthly Billed Wa	iter (m3)	Actual Consumption	on (m3)
	Customers to be investigated	Readable Water Meters	Reading Conducted	Consumption per 1 Customer	Total Consumption	Consumption per 1 Customer	Total Consumption
Customer Billed through Meter Reading	225	225	184	26.58	5979.50	35.80	8055.98
Customer Billed by Estimate	143	92	88	24.58	3515.00	31,71	4534.97
Total	368	317	272	25.80	9,494.50	34.21	12,590.95

Summary of 3rd & 4th Meter Reading Result

Number of Registered	Number of	Number of Meter	Monthly Consump Repair Work (m3)		Monthly Consump Repair Work (m3)	tion <u>after</u> Leak
Customers to be investigated	Readable Water Meters	Reading Conducted	Consumption per 1 Customer	Total Consumption	Consumption per 1 Customer	Total Consumption
368	317	268	34.21	12,590.95	39.04	14,365.04

RECORD OF METER READING ON REGISTERED CUSTOMERS

	<u> </u>	1 141177 10161	CADING ON REGISTERED C	ODIOME	(O									
	j	No		rbhy m3)	3	After Improvement (Y)	1st Reading		2nd Read	ng	3rd Reading		4th Readi	ng
Serial No.	Pack No.	Account. No	Address	Average monthly billed water (m3)	Before Improvement (Y)	nprov	27-Nov-00		29-Nov-(		11-Dec-00		12-Dec-(	00
ria	Š	000		erag led v	fore prov	ter I				Monthly				Monthly
S	Pg _	Ă		A. Dii	E E	₽ <u>2</u>	Reading	Reading	Balance	consumption	Reading	Reading	Balance	consumption
1	331	005/13	4/2, Awwal Zavia Rd.,	7.25	Y		162	163	1	15.25	166	166	0	0.00
2	331	010/16	6, Awwal Zavia Rd.,	24.75	<u>Y</u>		-				705	706	ı	30.50
3	331	015/11	8, Awwal Zavia Rd.,	3,50	Y		552	552	0	0.00	552	552	0	0.00
4	331	020/14	10, Awwal Zavia Rd.,	16.50	_Y_		663	664	1	15.25	666	671	5	152.50
5	331	027/17	14, Awwal Zavia Rd.,	22.00		Y	21	23	2	30,50	35	36	1	30,50
6	331	030/12	18/3, Awwal Zavia Rd.,	12.75	Y		344	345	1	15.25	350	351	11	30.50
7	331	035/17	18/5, Awwal Zavia Rd.,	12.00	_Y		435	436	1	15.25	440	441	11	30,50
8	331	040/10	18/14, Awwal Zavia Rd.,	17.75	<u>Y</u>		650	651	1	15.25	659	659	0	0.00
9	331	045/15	18/16, Awwal Zavia Rd.,	15.50	_Y_		4083	4084	1	15.25	4088	4088	0	0.00
10	331	050/17	18/19, Awwal Zavia Rd.,	33.00	Y		1041	1044	3	45.75	1059	1060	1	30.50
11	331	055/12	20, Awwal Zavia Rd.,	25.00	Y		721	722	1	15.25	733	733	0	0.00
12	331	065/10	24, Awwal Zavia Rd.,	19.00	<u>Y</u>		3956	3957	1	15.25	3963	3964	1	30.50
13	331	070/13	26, Awwal Zavia Rd.,	31.75	<u>Y</u>		5614	5615	1	15.25	5630	5634	4	122,00
14	331	085/16	32, Awwal Zavia Rd.,	29.00	Y		1380	1381	1	15.25	1391	1393	2	61.00
15	331	095/14	32/1, Awwal Zavia Rd.,	25.00	<u></u>	Y	58:	62	4	61.00	86	88	2	61.00
16	331	100/17	32/2, Awwal Zavia Rd.,	39.00	Y		4939	4941	2	30.50	12	13	1	30,50
17	331	105/12	32/2/A, Awwal Zavia Rd.,	18.25	Y		2997	2998	1	15.25	3006	3006	o	0.00
18	331	110/15	32/5, Awwal Zavia Rd.,	30,25	Y			6475		t-	6476	6478	2	61.00
19	331	115/10	34, Awwal Zavia Rd.,	40.00		Y	88	92	4	61.00	117	119	2	61.00
20	331	120/13	36, Awwal Zavia Rd.,	42.00	Y		3069	3073	4	61.00	3094	3096	2	61.00
21	331	125/18	38, Awwal Zavia Rd.,	78.25	Y		653	660	7	106.75	677	677	0	0.00
22	331	130/11	40, Awwal Zavia Rd.,	47.00		Y	39	40	1	15.25	44	44	0	0.00

		°Ž		thiy n3)	3	After Improvement (Y)	1st Reading		2nd Read	ing	3rd Reading		4th Readi	ng
No	9.	int. 7	Address	e moni	ement	aprove	27-Nov-00		29-Nov-(	)0	11-Dec-00		12-Dec-0	0
Serial No.	Pack No.	Account.		Average monthly billed water (m3)	Before Improvement (Y)	ufter In Y)	Reading	Reading	Ralance	Monthly consumption	Reading	Reading	Balance	Monthly consumption
		<del></del>	10 1 17 1 11	18.00		40	4291	4292	Dalance		4321		<del></del>	
23		135/16	42, Awwal Zavia Rd.,					4292	1	15,25	[	4323	2	61.00
_24		145/14	46, Awwal Zavia Rd.,	16.00			3365				3365			-
25		155/11	46/8, Awwal Zavia Rd.,	18.50			5333	5334	1	15,25	5343	5344	1	30.50
_26	331	160/14	46/9, Awwal Zavia Rd.,	9.75	Y		438	439	1	15,25	443	444	<u> </u>	30.50
27	331	171/11	52A, Awwal Zavia Rd.,	22.00		Y	5	5	0	0.00	7	8	1	30.50
28	331	172/10	52B, Awwał Zavia Rd.,	22.00		Y	29	30	1	15,25	42	42	0	0.00
29	331	175/17	54, Awwal Zavia Rd.,	20.00		Y	29	31	2	30,50	41	42	1	30.50
30	331	180/10	56, Awwal Zavia Rd.,	7.00		Y	33	35	2	30.50	46	47	1	30.50
31	331	185/15	56/1, Awwal Zavia Rd.,	32.00	Y		903	905	2	30.50	918	919	1	30.50
32	331	190/18	56/2, Awwal Zavia Rd.,	31.00	Y		5401	5403	2	30,50		-		_
_33	331	195/13	56/3, Awwal Zavia Rd.,	20.00		Y	34	35	1	15,25	42	42	0	0.00
34	331	200/16	56/4, Awwal Zavia Rd.,	9.00		Y	22	24	2	30,50	31	32	1	30.50
35	331	205/11	56/5, Awwal Zavia Rd.,	28.75	Y		4413	4415	2	30,50	4429	4430	1	30.50
36	331	210/14	56/6, Awwal Zavia Rd.,	15.25	Y		2673	2675	2	30,50	2687	2688	1	30.50
37	331	215/19	56/10, Awwal Zavia Rd.,	4.00		Y	48	51	3	45,75	67	68	l	30.50
38	331	220/12	56/12, Awwal Zavia Rd.,	19.00	Y		608	609	1	15.25	611	611	0	0.00
39	331	225/17	56/18, Awwal Zavia Rd.,	11.75	Y	-	1955	1956	1	15.25	1968	1968	0	0,00
40	331	230/10	56/19, Awwal Zavia Rd.,	9.50	Y		1295	1299	4	61.00	1304	1304	0	0.00
41	331	240/18	58, Awwal Zavia Rd.,	38.00		Y	64	67	3	45.75	81	92	11	335,50
42	331	245/13	60, Awwal Zavia Rd.,	25.75	Y		714	715	1	15.25	728	729	1	30.50
43	331	255/10	64, Awwal Zavia Rd.,	53,50	Y		7405	7409	4	61.00	7462	7465	3	91.50
44	331	265/18	68, Awwal Zavia Rd.,	24.25	Y		_	-		-	5532	5535	3	91.50
45	331	275/16	70, Awwal Zavia Rd.,	40.75	Y			7238	-	_	_			

		9		hly 13)	3	ment	1st Reading		2nd Readi	ng	3rd Reading		4th Readi	ng
Serial No.	No.	Account. No	Address	Average monthly billed water (m3)	Before Improvement (Y)	After Improvement (Y)	27-Nov-00		29-Nov-0	00	11-Dec-00		12-Dec-0	0
erial	Pack No.	ЮЭЭ		verage Iled w	efore 1prov	fter In	D 11			Monthly		-		Monthly
	<u></u> `					₹ S	Reading		Balance	consumption	Reading	Reading	Balance	consumption
46	331	280/19	72, Awwal Zavia Rd.,	30.50	Y		1219	1222	3	45.75	1244	1245	1	30.50
47	331	305/10	82, Awwal Zavia Rd.,	12.75	Y		4398	4399	1	15.25	4407	4408	1	30.50
48	331	315/18	86, Awwal Zavia Rd.,	22,25	Y		5917	5919	2	30,50	5928	5928	0	0.00
49	331	320/11	90, Awwal Zavia Rd.,	51.50	Y		-	7407	<del>-</del>	-	7407			
50	331	325/16	92, Awwal Zavia Rd.,	48.25	_Y			914	_	_	937.	940	3	91.50
51	331	335/14	114, Awwal Zavia Rd.,	40.00		Y	72	74	2	30.50	96	97	1	30.50
52	331	340/17	116, Awwal Zavia Rd.,	20.00		Y	74	76	2	30.50	86	87	1	30.50
53	331	345/12	118, Awwal Zavia Rd.,	9.75	Y		3079	3080	1	15,25	3084	3084	0	0.00
54	331	350/14	120, Awwal Zavia Rd.,	38.25	Y		8209	8212	3	45.75	8232	8234	2	61.00
55	331	355/19	122, Awwal Zavia Rd.,	13.25	Y		5337	5339	2	30,50	5348	5350	2	61.00
56	331	360/12	122/1, Awwal Zavia Rd.,	34.25		Y	66	71	5	76.25	102	104	2	61.00
57	331	370/10	128, Awwał Zavia Rd.,	16.75	Y		6613	6614	1	15.25	6622	6622	0	0.00
58	331	375/15	130, Awwal Zavia Rd.,	51.00	Y		170	172	2	30.50	185	185	0	0.00
59	331	376/14	140/2, Awwal Zavia Rd.,	27.25	Y		4229	4232	3	45,75	4244	4248	4	122.00
60	331	377/13	140/4, Awwal Zavia Rd.,	20.00		Y	32	34.	2	30.50	44	45	1	30.50
61	331	378/12	140/6A, Awwal Zavia Rd., A. M. A Cader	20.00	Y		58	61	3	45.75	84	86	2	61.00
62	331	379/11	140/6, Awwal Zavia Rd., M.D.B.N. Perera	25.00	Y		-	-	-	-	_		-	) <sub>1</sub> -
63	331	380/18	146, Awwal Zavia Rd.,	22.25	Y		3450	3455	5	76.25	3474	3475	1	30.50
64	331	382/99	140/6B, Awwal Zavia Rd.,	30.00		Y	36	39	3	45.75	53	54	_1	30.50
65	331	385/13	148, Awwal Zavia Rd.,	10.00	Y		3936	3940	4	61.00	3948	3948	0	0.00
66	331	390/16	150, Awwal Zavia Rd.,	25.00		Y	44	46	2	30.50	61	62	1	30.50
67	331	405/19	158, Awwal Zavia Rd.,	20,00		Υ_	81	86	5	76.25	116	118	2	61.00
68	331	410/12	160, Awwal Zavia Rd.,	13.00	Y		3036	3037	1	15.25	3044	3045	1	30.50

	<u> </u>	9		thly m3)	3	ement	1st Reading		2nd Readi	ng	3rd Reading		4th Readi	ng
S.	9.	ii ji	Address	ater (	ment	ıprov	27-Nov-00		29-Nov-0	00	11-Dec-00	_	12-Dec-0	0
Serial No	Pack No.	Account. No		Average monthly billed water (m3)	Before Improvement (Y)	After Improvement (Y)	Reading	Reading	Balance	Monthly consumption	Reading	Reading	Balance	Monthly consumption
69	331	430/18	141, Awwal Zavia Rd.,	23.25	Y		754	756	2	30.50	765	766	1	30.50
70	331	435/13	139/5, Awwal Zavia Rd.,	15.25	Y		803	808	5	76.25	821	823	2	61.00
71	331	440/16	135, Awwal Zavia Rd.,	20.00		Y	11	12	1	15.25	16	16	0	0.00
72	331	450/13	125, Awwal Zavia Rd.,	7.00	Y		766	767	1	15.25	772	<u>773</u>	1	30,50
73	331	455/18	123, Awwal Zavia Rd.,	2.00	Y		-	1583			1584	1584	0	0.00
74	331	465/16	105A, Awwal Zavia Rd.,	26.25	Y		6186	6188	2	30.50	6199	6199	0	0.00
75	331	470/19	105, Awwal Zavia Rd.,	14.00		Y_	33	36	3	45.75	54	55	1	30.50
76	331	485/12	99/3, Awwal Zavia Rd.,	20.00		Y	11	12	1	15.25	16	19	3	91.50
77	331	490/15	99/2, Awwal Zavia Rd.,	53.00		Y	30	31	1	15.25	35	35	0	0.00
78	331	495/10	99/1, Awwal Zavia Rd.,	50.00	Y		-[		_	-		_	-	_
79	331	496/19	99/1 A, Awwal Zavia Rd.,	22.00		Y	43	44	1	15.25	64	65	1	30.50
80	331	500/13	99, Awwal Zavia Rd.,	16.75	Y		477	479	2	30.50	484	485	1	30.50
81	331	505/18	97/1, Awwal Zavia Rd.,	20.00		Y	51	54	3	45.75	69	70	1	30.50
82	331	510/11	97, Awwal Zavia Rd.,	48.50	Y		4187	4190	3	45.75	4208	4210	2	61.00
83	331	515/16	93, Awwal Zavia Rd.,	20.00	Y		2124	2125	1	15.25	2133	2134	1	30.50
84	331	520/19	91, Awwal Zavia Rd.,	29.50	Y		6077	6079	2	30.50	6094	6094	0	0.00
85	331	525/14	89, Awwal Zavia Rd.,	27.00		Y	86	90	4	61.00	119	122	3	91 <sub>j</sub> 50
86	331	535/12	85, Awwal Zavia Rd.,	37.25	Y		2836	2840	4	61.00	2865	2867	2	61.00
87	331	545/10	81, Awwal Zavia Rd.,	34.75	Y		6284	6287	3	45.75	6305	6306	1	30.50
88	331	555/17	79, Awwal Zavia Rd.,	34.00		Y	28	29	1	15.25	39	40	1	30.50
89	331	560/10	77, Awwal Zavia Rd.,	34.00	Y		758	761	3	45.75	776	777	1	30.50
90	331	565/15	75, Awwal Zavia Rd.,	26.75	Y		3318	3322	4	61.00	3344	3346	2	61.00
91	331	580/16	67, Awwal Zavia Rd.,	29.00	Y		1874	1876	2	30.50	1893	1895	2	61.00

		9		thly m3)	3	After Improvement (Y)	1st Reading		2nd Readi	ng	3rd Reading		4th Readi	ng
Serial No.	<u>9</u>	Account. No	Address	Average monthly billed water (m3)	Before Improvement (Y)	nprove	27-Nov-00		29-Nov-0	00	11-Dec-00		12-Dec-0	0
erial	Pack No.	10001		verag	efore	fter Ir	Destina	Dardin		Monthly	D 11	<b>D</b> 1:		Monthly
				ì		4 C	Reading	Reading	Balance	consumption	Reading	Reading	Balance	consumption
92		591/13	61, Awwal Zavia Rd., A. U. Zareena	30.50	Y		388	389	1	15.25	403	405	2	61.00
93	331	595/19	61A, Awwal Zavia Rd., A. R. Ahamed	30,00	Y		-	-	-	-			<u>-</u>	
94	331	600/12	59, Awwal Zavia Rd.,	22.00	Y	}	584	585	1	15.25	589	589	. 0	0.00
95	331	605/17	57, Awwal Zavia Rd.,	34.00	Y		905	908	3	45.75	923	924	1	30.50
96	331	610/10	55, Awwal Zavia Rd.,	43.00	Y		200	203	3	45.75	225	227	2	61.00
97	331	625/13	51, Awwal Zavia Rd.,	28.25	Y		4669	4673	4	61.00	4694	4695	1	30.50
98	331	630/16	51A, Awwal Zavia Rd.,	24.00	Y		3806	3808	2	30.50	3822	3823	1	30.50
99	331	635/11	49, Awwal Zavia Rd.,	16.25	Y		-	-	_	-	3443	3444	1	30.50
100	331	650/11	43, Awwal Zavia Rd.,	30.75	Y		7552	7555	3	45.75	7530	7531	1	30.50
101	331	660/19	39, Awwal Zavia Rd.,	24,25	Y		6673	6675	2	30.50	6685	6687	2	61.00
102	331	670/17	33, Awwal Zavia Rd.,	26.00	Y		4740	4746	6	91.50	4782	-	_	_
103	331	680/15	29, Awwal Zavia Rd.,	20.00	Y		3307	3307	0	0.00	3308	3308	0	0.00
104	331	685/10	27, Awwal Zavia Rd.,	68.50	Y		221	228	7	106.75	246	247	1	30.50
105	331	690/13	25/A, Awwal Zavia Rd., H. Umma	33,25	Y		441	442	1	15.25	454	455	l	30.50
106	331	695/18	23/2, Awwal Zavia Rd.,	12.50	Y		1721	1722	1	15.25	1729	1730	1	30.50
107	331	710/19	21, Awwal Zavia Rd.,	170.00	Y		2907	2927	20	305.00	3031	3040	9	274.50
108	331	725/12	19, Awwal Zavia Rd.,	7.75	Y		196	197	1	15.25	200	200	0	0,00
109	331	735/10	9, Awwal Zavia Rd.,	29.75	Y		1975	1978	3	45.75	1991	1992	1	30,50
110	331	740/13	5, Awwal Zavia Rd.,	21.50	Y		2573	2574	1	15.25	2583	2584	1	30.50
111	331	10/31/331/T 2	62, Awwal Zavia Rd.,	N.A.	Y		3703	3705	2	30.50	3713	3713	0	0.00
112	331	10/31/331/T 3	140/7, Awwal Zavia Rd.,	N.A.	Y		3316	3317	1	15.25	3322	3323	1	30.50
113	837	021/19	No 15 Molawatta Rd.	22.00		Y	20	22	2	30.50	31	31	0	0.00
114	837	035/13	No 7, Molawatta Rd.	14.50	Y		1477	1478	1	15.25	1484	1484	0	0.00

		9		thly m3)	3.	After Improvement (Y)	1st Reading		2nd Read	ng	3rd Reading		4th Readi	ng
No.	o Z	Account. No	Address	Average monthly billed water (m3)	Before Improvement (Y)	nprov	27-Nov-00		29-Nov-(		11-Dec-00		12-Dec-0	00
Serial No.	Pack No.	יככסו		verag	Before	fter Ir	Dooding	Reading	Dalanca	Monthly	Danding	Dooding	Balance	Monthly
				! .			Reading		Datance	consumption	Reading	Reading	T	consumption
115		040/16	No 5, Molawatta Rd.	22.00		Y	16	17	1	15.25	23	23	0	0.00
116		105/18	No 2/1, Gemunu lane ,	42.25		Y	34	37	3	45.75	52		<u>-</u>	<u>-</u>
117	837	110/11	No 2/2, Germinu lane,	32.25	Y						-	<u> </u>	<u> </u>	-
118	837	115/16	No2/4, Gemunu lane	11,50	Y		2740				2740			<u> </u>
119	837	120/19	No 2/6, Gemunu Lane,	16.00		<u>Y</u>	19	20	1	15.25	29	29	0	0.00
120	837	135/12	No 17, Gemunu Lane,	18.50	Y		800		_		800	<u>-</u>		
121	837	140/15	No 6, Gemunu Lane ,	18.25	_Y		4343	4345	2	30.50	4357	4357	0	0.00
122	837	141/14	No 7 Gemunu lane ,	10.25	Y		70	71	1	15.25	73	73	0	0.00
123	837	145/10	No 4/5, Gemunu Lane	3(	·		•		1	15.25	52	53	1	30.50
124	837	150/12	No 12A, Gemunu lane ,	30.00		Y	13	14	[1	15.25	19	20	1	30.50
125	837	155/17	No12B, Gemunu lane,	20.25	_Y		974	976	2	30.50	983	983	0	0.00
126	837	160/10	No 14/1, Gemunu Lane,	10.00		Y	26	27	1	15.25	38	39	1	30.50
127	837	165/15	No 14/2 Gemunu Lane,	25,00	Y		749	750	1	15.25	759	759	0	0.00
128	837	170/18	No 14/8A Gemunu Lane,	9.75	Y		542	544	2	30.50	547	547	0	0.00
129	837	180/16	No14/10 Gemunu Lane,	11.00		Y	25	27	2	30.50	34	35	1	30,50
130	837	190/14	No 28A Gemunu lane	6.75	Y					4	-	-	-	-
131	837	195/19	No 28B , Gemunu Lane	7.75	Y		1072	1073	1	15.25	1084	1086	2	61 <sub>8</sub> 00
132	837	200/12	No 30 , Gemunu Lanc	14.00		Y	9	10	1	15.25	19	19	0	0.00
133	837	205/17	No 30/2, Gemunu lanc,	25.00	Y			-	-	-		-	-	-
134	837	210/10	No 30/4, Gemunu Lano,	22.00	Y		2263	2265	_2	30.50	2271	2272	1	30.50
135	837	215/15	No 30/5, Gemunu Lane,	33.25	Y		2049	2050	1	15.25	2061	2062	1	30,50
136	837	220/18	No 48/7 , Gemunu Lane,	20.00	Y		407	-	<b></b>		407			-
137	837	225/13	No 48/3 , Gemunu Lane,	21.00	Y		1445	1445	0	0.00	1445	1445	0	0.00

		9		thly n3)	3	After Improvement (Y)	1st Reading		2nd Readi	ng	3rd Reading		4th Readi	ng
Š	No.	Account. No	Address	Average monthly billed water (m3)	Before Improvement (Y)	nprove	27-Nov-00		29-Nov-0	00	11-Dec-00		12-Dec-0	0
Serial No.	Pack No.	1000		vera <i>g</i> e	efore	fter In	- T	D 1		Monthly				Monthly
				i		₹ C	Reading		Balance	consumption	Reading	Reading	Balance	consumption
138	837	226/12	No 48/4, Gemunu lane,	10.50	Y		265	266	1	15.25	272	272	0	0,00
139	837	235/11	No 68/8, Gemunu Lane,	31.00	Y		-	-				-		-
140	837	245/19	No140/5, Gemunu Lane,	27.00		_Y	45	45	0	0.00	64	65	1	30.50
141	837	260/19	No 140/1, Gemunu Lane,	17.00		Y	4768	4769	1	15.25	4775	4776	1	30.50
142	837	265/14	No140/7, Gemunu Lane,	34.50	Y		3315	3317	2	30,50	3322	3323	1	30.50
143	837	300/11	No T68/20, Gemunu Lane,	22.00		Y	18	22	4	61.00	30	31	1	30.50
144	837	310/19	No T68/25, Gemunu Lanc,	22.00		Y	42	44	2	30,50	58	58	0	0.00
145	837	315/14	No T68/46, Gemunu Lane,	22.00		Y	-	-	-	-	_		_	-
146	837	325/12	No T68/50A, Gemunu Lane,	22.00		Y	3	4	1	15.25	6	7	1	30.50
147	579	005/17	5,Swarna Chaithya Rd.,	33.00	Y		1850	1854	4	61.00	1875	1878	3	91.50
148	579	006/16	7,Swarna Chaithya Rd.,	22.00		Y	30	31	1	15.25	40	41	1	30.50
149	579	010/10	9,Swarna Chaithya Rd.,	2.00		Y	90	91	1	15.25	96	96	0	0.00
150	579	015/15	11,Swarna Chaithya Rd.,	13.75	_Y_		2124	2125	1	15.25	2132	2132	0	0.00
151	579	020/18	15,Swarna Chaithya Rd.,	13.00	Y		1756	1758	2	30.50	1762	1762	o	0.00
152	579	025/13	17,Swarna Chaithya Rd.,	22.25	Y		6811	6813	2	30.50	6815	6816	1	30.50
153	579	040/14	23,Swarna Chaithya Rd.,	17.25	Y		8851	8853	2	30.50	8863	8864	1	30.50
154	579	045/19	25,Swarna Chaithya Rd.,	24.25	Y		2594	2596	2	30.50	2600	2601	1	30,50
155	579	050/11	33,Swarna Chaithya Rd.,	24.75	Y		3998	4000	2	30.50	4011	4012	1	30.50
156	579	055/16	35/3,Swarna Chaithya Rd.,	20.00		Y	7	8	1	15.25	10	11	1	30.50
157	579	060/19	37,Swarna Chaithya Rd.,	15.00		Y	1555	1556	1	15.25	1559		-	
158	579	065/14	39,Swarna Chaithya Rd.,	10.75	Y		3368	3370	2	30.50	3375	3376	1	30.50
159	579	080/15	59,Swarna Chaithya Rd.,	5,00		Y	7	7	0	0.00	10	11	1	30,50
160	579	085/10	63,Swarna Chaithya Rd.,	13.75	Y		2767	2768	1	15.25	2770	2773	3	91.50

		o Z		thly m3)	8	After Improvement (Y)	1st Reading		2nd Read	ing	3rd Reading		4th Readi	ng
Š	o.		Address	e mon	ement	nprov	27-Nov-00	·	29-Nov-(	00	11-Dec-00		12-Dec-0	0
Serial No.	Pack No.	Account.		Average monthly billed water (m3)	Before Improvement (Y)	After In	Reading	Reading	Balance	Monthly consumption	Reading	Reading	Balance	Monthly consumption
161	<del></del>	090/13	65,Swarna Chaithya Rd.,	27.50		Y	30	33	3		45	47	2	61.00
162		095/18	67,Swarna Chaithya Rd.,	19.25			5209	5210		15.25		5218		- 01.00
163		100/11	69,Swarna Chaithya Rd.,	24.00		Y	52	54	2		71	72	1	30.50
164		105/16	71,Swarna Chaithya Rd.,	29,50		<u> </u>	190	192	2		207	208	1	30.50
165	~-	110/19	73,Swarna Chaithya Rd.,	20.50			1113	1114	1	15.25		1119		
166		115/14	85,Swarna Chaithya Rd.,	20,00		Y	40	44	4	61.00	-	63	-	-
167	579	120/17	109/1,Swarna Chaithya Rd.,	17.00		Y	121	129	8	122.00	169	172	3	91,50
168	579	136/19	145/4,Swarna Chaithya Rd.,	22.00		Y	109	117	8	122.00	156	158	2	61.00
169	579	140/13	121,Swarna Chaithya Rd.,	105.75	Y		5408	5417	9	137.25	5478	5482	4	122.00
170	579	141/12	145/1,Swarna Chaithya Rd.,	22.00		Y	15	16	1	15.25	22	23	1	30.50
171	579	142/11	T 85,Swarna Chaithya Rd.,	22.00		Y	10	11	1	15.25	-	_	-	-
172	579	145/18	145A,Swama Chaithya Rd.,	10.00		Y	25	26	1	15.25	_33	34	1,	30.50
173	579	146/17	145/3 B,Swarna Chaithya Rd.,	22,00		Y	99984	99985	1	15.25	99980		-	-
174	579	150/10	145/3 A,Swama Chaithya Rd.,	26,50		_Y_	1613	1614	1	15.25		1627		
175	579	161/17	145/16,Swarna Chaithya Rd.,	49.50		Y	35	37	2	30.50	46	46	0	0.00
176	_579	170/16	145/18,Swarna Chaithya Rd., K.D. Punnawathic	3.25		<u>Y</u>	16	17	1	15.25	21	21	0	0.00
177	579	171/15	145/18,Swama Chaithya Rd., K.D. Dayawathie	22.00		Y	29	31	2	30.50	45	46	1	30.50
178	579	172/14	145/18,Swarna Chaithya Rd., R. Karunawathic	22.00		Y	105	106	1	15.25	112	113	1	30.50
179	579	195/17	156,Swarna Chaithya Rd.,	25,50	Y		1599	1602	3	45.75	1619	1620	1	30.50
180	579	200/10	154,Swarna Chaithya Rd.,	21.00	Y			1370			1374			
181	579	205/15	152,Swarna Chaithya Rd.,	92.00	Y			-					-	
182	579	206/14	145/15/B/B,Swarna Chaithya Rd.,	22.00		Y	99963	99962	3	45.75	99944	99943	1	30.50
183	579	211/17	145/15/C,Swarna Chaithya Rd.,	22.00		Y	33	37	4	61.00	65	67	2	61.00

		9		m3)	3	After Improvement (Y)	1st Reading		2nd Readi	ng	3rd Reading		4th Readi	ng
Serial No.	Š.	Account. No	Address	Average monthly billed water (m3)	Before Improvement (Y)	nprove	27-Nov-00		29-Nov-0		11-Dec-00		12-Dec-0	0
erial	Pack No.	וככסו		verag	efore nprov	fter In	D 1'	Deading	D.1	Monthly	n 11 -	D 1'	D 1	Monthly
		•				A ()	Reading	Reading		consumption	Reading	Reading	Balance	consumption
184	579	225/11	90, Swama Chaithya Rd., Jayathilakaramaya Temple	38.00	Y		1353	1355	2	30.50	1367	1368	1	30,50
185	579	230/14	66,Swarna Chaithya Rd.,	33.00	<u>Y</u>		190	192	2	30.50	209	210	1	30.50
186	579	235/19	64,Swarna Chaithya Rd.,	25.00		Y	1481	1483	2	30.50	1500		-	
187	579	240/12	60/2,Swarna Chaithya Rd.,	19.25	Y		4204	4206	2	30.50	4210	4211	1	30.50
188	579	245/17	60/1,Swarna Chaithya Rd.,	34.75	Y		1024	1026	2	30.50	1040	1041	1	30.50
189	579	250/19	60,Swama Chaithya Rd.,	10.50	Y		111	112	1	15.25	119	119	0	0.00
190	579	255/14	58,Swarna Chaithya Rd.,	16.50	Y		42	43	1	15.25	48	50	2	61.00
191	579	260/17	54,Swarna Chaithya Rd.,	33.25	Y		250	253	3	45.75	271	273	2	61.00
192	579	265/12	52/2,Swarna Chaithya Rd.,	6.25	Y		6280	6281	1	15.25	6287	6288	1	30.50
193	579	270/15	48,Swarna Chaithya Rd.,	33.00	Y		6189	6195	6	91.50	6199	6200	1	30.50
194	579	275/10	44,Swarna Chaithya Rd.,	20.00	·	Y	30	32	2	30.50	44	45	1	30.50
195	579	280/13	42/4,Swama Chaithya Rd.,	23.00		Y	45	48	3	45.75	65	66	1	30.50
196	579	285/18	34/6,Swarna Chaithya Rd.,	18,00	Y		3480	3481	1	15,25	3487	3488	1	30.50
197	579	290/11	16,Swarna Chaithya Rd.,	19.75		Y	1294	1295	1	15.25	1297	1299	2	61.00
198	579	295/16	14,Swarna Chaithya Rd.,	21.75	Y		454	457	3	45.75	468	469	1	30.50
199	579	296/15	14/15 G,Swarna Chaithya Rd., MHF Zinaya	22.00		Y	0		-	-			-	_
200	575	435/15	372,Grandpass Rd.,	126.00	Y			-	-	_			-	
201	575	440/18	372B,Grandpass Rd.,	79.75	Y		213 <u>5</u>	2146	11	167.75	2183	2191	8	244.00
202	575	445/13	376,Grandpass Rd.,	15.50	Y		11	12	1	15.25	11	11	o	0.00
203	575	450/15	378,Grandpass Rd.,	8.75	Y		1372	1374	2	30.50	1376	1377	1	30,50
204	575	470/11	392,Grandpass Rd.,	3.25	Y		895	897	2	30.50	898	898	0	0.00
205	575	485/14	406,Grandpass Rd.,	0.25	Y		3808	3809	1	15.25		<u>-</u>	_	-
206	575	490/17	410,Grandpass Rd.,	27.50	Y		1856	1858	2	30.50	1868	1869	1	30,50

	-	Š		thly m3)	3	After Improvement (Y)	1st Reading		2nd Read	ing	3rd Reading		4th Readi	ng
Serial No.	ė.		Address	Average monthly billed water (m3)	Before Improvement (Y)	nprov	27-Nov-00		29-Nov-(	00	_11-Dec-00		12-Dec-0	0
erial	Pack No.	Account.		werag	sefore nprov	Her Ir	Reading	Reading		Monthly consumption	Reading	Reading	Balance	Monthly
$\vdash$		<del> </del>		1	J	<b>₹</b> C								consumption
207		500/15	414,Grandpass Rd.,	17.25			3931	3932	1	15.25	3937	3937	0	3,00
208		505/10	418,Grandpass Rd.,	20.00	[		58	62	4	61.00	· — - · · · · · · · · · · · · · · · · ·	84	1	30.50
209		510/13	420, Grandpass Rd.,	23.50	i		861	862	1	15.25	868	868	0	
210	575	515/18	422,Grandpass Rd.,	16.50	Y		859	861	2	30.50	870	871	1	30,50
211	575	520/11	428,Grandpass Rd.,	83.00	Y		841	846	5	76.25	879	881	2	61.00
212	575	525/16	430,Grandpass Rd.,	6,50	Y	<u>-</u>	1026	1028	2	30,50	1030	1030	0	0.00
213	575	535/14	440,Grandpass Rd., G.G. Peiris	45.25	Y		2201		_		2227	2229	2	61.00
214	575	540/17	440/2,Grandpass Rd.,	16.50	Y		2216	2217	1	15.25			_	
215	575	550/14	440/10,Grandpass Rd.,	20,75	Y		1328	1330-	2	30.50	1341	1342	I	30.50
216	575	560/12	444, Grandpass Rd., Letchumi Jewellers	15,25	Y		2183	2184	1	15.25	2192	2193	1	30.50
217	575	10/31/575/T2	408, Grandpass Rd., R.M.K. Waragoda (Jeweraly Shop)	N.A.		Y	18	22	4	61.00	45	49	4	122.00
218	575	11/31/575/012/15	438,Grandpass Rd.,	72.00	Y		2900	2903	3	45.75	2922	2923	1	30.50
219	575	11/31/575/013/30	448, Grandpass Rd., Hotel de Grandpass	127.00	Y		618	627	9	137.25	119	126	7	213.50
220	835	005/13	24/1, De Vos Lanc,	9.50	Y		1163	1164	1	15.25	1170	1170	0	0.00
221	835	010/16	24/2, De Vos Lane,	17.00		Y	11	12	1	15.25	17	17	0	0.00
222	835	015/11_	26, De Vos Lane,	5.75	Y		120	121	_1	15.25	122	122	0	0,00
223	835	020/14	28, De Vos Lane,	31.00		Y	34	35	1	15.25	43	44	1	30,50
224	835	025/19	30, De Vos Lane,	40.25	Y		2942	2946	4	61.00	2964	2966	2	61.00
225	835	030/12	32, De Vos Lane,	31.75	Y		6303	6307	4	61.00	6327	6329	2	61.00
226	835	035/17	34, De Vos Lane,	28,00	Y		4724	4727	3	45.75	4735	4740	5	152.50
227	835	040/10	36, De Vos Lane,	20.50	Y		5465	5467	2	30.50	5470	5471	1	30.50
228	835	045/15	38, De Vos Lane,	41.00		Y	87	92	5	76.25	121	123	2	61,00
229	835	050/17	40, De Vos Lane,	37.75	Y		2590	2593	3	45.75	2610	2612	2	61.00

Serial No.		Account. No		Average monthly billed water (m3)	Before Improvement (Y)	After Improvement (Y)	1st Reading	eading 2nd Reading			3rd Reading		4th Reading		
	N N		Address	ge me water	verne	[mpro	27-Nov-00		29-Nov-0		11-Dec-00	12-Dec			
Seri	Pack No.			Avera	Before	After 3	Reading	Reading		Monthly consumption	Reading	Reading	Balance	Monthly consumption	
230		055/12	40/4, De Vos Lane,	16.25	Y		840	841	1	15.25	849	850		30.50	
231	835	060/15	42, De Vos Lane,	10.00			325	327	2	30.50	337	338		30.50	
232	835	065/10	44/1, De Vos Lane,	38,75	Y		2180	2183	3		2199	2200	1	30.50	
233	835	070/13	44/2, De Vos Lane,	23.75	Y		2015	2017	2	30.50	2030	2031	1	30.50	
234	835	075/18	44/5, De Vos Lane,	20.75	Y		3783	3784	1	15.25	3794	3795	1	30.50	
235	835	080/11	44/7, De Vos Lane,	20.00		Y	2	-	-	_	2	-	-		
236	835	085/16	44/10, De Vos Lane,	10.00	_Y			4948	_	-	4952	-			
237	835	090/19	44/11, De Vos Lane,	20.00		Y	11	12	1	15.25	_16	17	1	30.50	
238	835	095/14	44/12, De Vos Lane,	19.00	Y		4110	4111	1	15.25		4118	-		
239	835	100/17	50, De Vos Lane,	16.50	Y		3179	3180	1	15.25	3187	3188	1	30.50	
240	835	105/12	50/1, De Vos Lane,	17.50	Y		6324	6326	2	30.50	6335	6336	1	30.50	
241	835	110/15	50/2, De Vos Lane,	34.50	Y		_	-	-	_	4545	4546	1	30,50	
242	835	115/10	50/3, De Vos Lane,	38.25	Y		827	830	3	45.75	848	850	2	61.00	
243	835	120/13	50/4, Dc Vos Lane,	15.25	Y			_	-		4239	4240	1	30.50	
244	835	122/11	50/5, De Vos Lane,	61.00	Y		23	24	1	15.25	253	255	2	61.00	
245	835	125/18	50/6, De Vos Lanc,	24.25	Y					-	5687	5689	2	61.00	
246	835	130/11	50/7, De Vos Lane,	17.75	Y		7099	7101	2	30.50	7109	7110	1	30,50	
247	835	135/16	50/8, De Vos Lane,	31.75	Y		_	_		_	_	-	-	_	
248	835	140/19	50/15, De Vos Lane,	11.00	Y		24	26	2	30.50	35	35	0	0.00	
249	835	145/14	50/16, De Vos Lane,	20,00		Y	5416	5418	2	30,50	5424	5425	1	30.50	
250	835	150/16	50/17, De Vos Lane,	63.00	Y		111	113	2	30,50	132	133	1	30.50	
251	835	155/11	50/19, De Vos Lane,	20.00		Y	19	20	1	15,25	28	28	0	0.00	
252	835	160/14	50/20, De Vos Lane,	13.75	Y	<u></u>	2585	2586	1	15.25	2592	2593	1	30.50	

		int. No	Address	thly m3)	ઈ	After Improvement (Y)	1st Reading	2nd Reading			3rd Reading		4th Reading	
Š.	j.			e mon vater (		sment iprove	27-Nov-00	29-Nov-00			11-Dec-00	11-Dec-00 12-Dec-		
Serial No.	Pack No.	Account.		Average monthly billed water (m3)	Before Improvement (Y)	ther In	Reading	Reading	Ralance	Monthly consumption	Reading	Reading	Balance	Monthly consumption
						40			-				-	
253		165/19	50/22, De Vos Lane,	35.00	Y		6410	6413	3	45.75		6431	3	· ·
254		170/12	50/23, De Vos Lane,	15.25			5903	5905	2	30.50		5917		30.50
255		175/17	50/24, De Vos Lane,	38.00			228				243	245	2	
256	835	180/10	50/25, De Vos Lane,	26.00	Y		2407	2408	1	15.25	2412	2412	0	0.00
257	835	185/15	50/27, De Vos Lane,	8.00	_ Y		5784	5787	3	45.75	5789	5790	1	30.50
258	835	190/18	50/28, De Vos Lane,	49.50	Y		6234	6237	3	45.75	6257	6259	2	61.00
259	835	195/13	50/30, De Vos Lane,	20.25	Y		2307	2309	2	30.50	2317	2317	0	0.00
260	835	200/16	50/31, De Vos Lane,	28.50	Y				-		4481	4482	_1	30.50
261	835	205/11	50/32, De Vos Lane,	21.00	Y		71	73	2	30.50	84	85	1	30.50
262	835	210/14	50/33, De Vos Lane,	8.00	Y		1099	1099	0	0.00	1100	1100	0	0.00
263	835	215/14	54, De Vos Lane,	3.00	Υ_			263	<u>-</u>		270	276	6	183.00
264	835	219/15	56/5, De Vos Lane,	9.00	Y		138	-	-		142	143	1	30.50
265	835	220/12	56/4, De Vos Lane,	15.75		Y	19	20	1	15.25	28	29	1	30.50
266	835	225/17	56/6, De Vos Lane,	34.00	Y		4458	4460	2	30.50	4473	4474	1	30.50
267	835	230/10	56/7, De Vos Lane,	6.50	Y		2402	2403	1	15.25	2405	2405	0	0.00
268	_835	240/18	56/23, De Vos Lane,	14.75		Y	22	24	2	30.50	34	35	1	30.50
269	835	245/13	56/25, De Vos Lane,	13.75	Y									
270	835	250/15	56/29, De Vos Lane,	20.00		Y	14	15	1	15.25	20	20	0	0.00
271	835	255/10	56/30, De Vos Lane,	18.25	Y		1829	1831	2	30.50	1841	1841	0	0.00
272	835	256/19	56/31, De Vos Lane,	40.00		Y	20	21	1	15.25	31	32	1	30,50
273	835	260/13	56/38, De Vos Lanc,	6,00		Y	37	40	3	45.75	54	55	1	30,50
274	835	265/18	56/39, De Vos Lane,	17.50	Y		1541	1542	1	15.25	1548	1548	0	0.00
275	835	270/11	58, De Vos Lane,	18.25	Y		884	886	2	30.50	900	901	1	30,50

		Account. No	Address	thly m3)	3	After Improvement (X)	1st Reading		2nd Readi	ng	3rd Reading	g 4th Reading		
No.	Š.			Average monthly billed water (m3)	1		00	11-Dec-00	12-Dec-00					
Serial No.	Pack No.	10001		verag	Before Improvement (Y)	fter In	Danding	Danding	Dalamas	Monthly	D. Jin.	Danding Polem	Monthly	
					В	1	Reading	Reading		consumption	Reading			consumption
276		280/19	68, De Vos Lane,	20.00		Y	15	16		15.25	22	23		30.50
277		285/14	70/7, De Vos Lane,	10.00		Y	0		0	0.00	0	0	0	0.00
278	835	290/17	70/8, De Vos Lane,	20.00	Y		-	783	-	-		-		<u>-</u>
279	835	295/12	70/9, De Vos Lane,	4.50	Y		385	389	4	61.00	389	<u> </u>		
280	835	300/15	70/10, De Vos Lane,	17.00	`	Y	24	26	2	30.50		33		-
281	835	305/10	70/32, De Vos Lane,	26.75	Y		4497	4499	2	30.50	4511	4512	1	30.50
282	835	310/13	70/37, De Vos Lane,	20.50	Y	] ]	7001	7003	2	30,50	7020	7022	2	61.00
283	835	315/18	70/38, De Vos Lane,	30.75	Y		5735	-	_		-		_	-
284	835	320/11	72, De Vos Lane,	20.00		Y	16	17	1	15.25	25	26	1	30.50
285	835	325/19	159, De Vos Lane,	18.75	Y		672	675	3	45.75	688	689	1	30,50
286	835	330/19	157, De Vos Lane,	19.75	Y		5172	5174	2	30.50	5182	5183	1	30,50
287	835	335/14	155, De Vos Lane,	14.50	Y		6065	6069	4	61.00	6076	6077	1	30,50
288	835	340/17	153A, De Vos Lane,	32.50	_Y		918	920	2	30,50	924	925	1	30.50
289	835	341/16	137, De Vos Lane,	55.00		Y	48	52	4	61.00	72	73	1	30.50
290	835	343/14_	153/A, De Vos Lane, P. Perera	0.00	Y		0	0			-			
291	835	345/12	153, De Vos Lane, C. N.M.M Casim	32.00	Y	l	177	181	4	61.00	202	203	1	30.50
292	835	350/14	151A, De Vos Lane,	2.00	Y		-	6755			6758	6759	1	30,50
293	835	362/10	147, De Vos Lane,	22.00		Y	11	12	1	15.25	16	17	1	30.50
294	835	365/19	139, De Vos Lane,	30.00		Y	37	39	2	30.50	51	53	2	61.00
295	835	370/10	73, De Vos Lane,	28.00		Y	251	256	5	76.25	298	302	4	122.00
296	835	375/15	71, De Vos Lane,	36.00		Y	77	79	2	30.50	93	96	3	91.50
297	835	380/18	69/17/A, De Vos Lane,	20.00	Y		352	352	0	0.00	352	352	0	0.00
298	835	385/13	69/17, De Vos Lane,	25.50	Y		1514	1516	2	30.50	1526	1526	0	0.00

	· · · ·	9	원 법 Address	thly m3)	3	ement	1st Reading		2nd Read	ing	3rd Reading		4th Readi	ng
å	Š.	mt. )		Average monthly billed water (m3)	Before Improvement (Y)	After Improvement (Y)	27-Nov-00		29-Nov-(	00	11-Dec-00		12-Dec-0	0
Serial No.	Pack No.	Account.		verage lled w	efore	fter In ()	Danding	Dandina	Dalamas	Monthly	Dandin	D 11	Data	Monthly
		<del></del>		l i		۸ ار	Reading		Balance	consumption	Reading	Reading		consumption
299	835	390/16	69/16, De Vos Lane,	10.75	Y		953	954	1	15.25	961	962	1	30.50
300	835	395/11	69/12, De Vos Lanc,	20.00		Y	89	94	5	76.25	126	130	4	122.00
301	835	400/14	69/11, De Vos Lane,	9.50	Y		560	561	1	15.25	568	568	0	0.00
302	835	405/19	69/10, De Vos Lane,	11.25	Y		4716	4717	1	15.25	4724	4725	1	30.50
303	835	410/12	69/9, De Vos Lane,	24.00	Y		669	671	2	30.50	680	681	1	30.50
304	835	415/17	65/1/2, De Vos Lane, A.L. Mohamed	39.25	Y	· ·	7063	7064	1	15.25		7098	_	•
305	835	420/10	65/1/1, De Vos Lane, S. Singham	57.00	Y		8275	8276	1	15.25	_	8283	-	
306	835	425/15	65, De Vos Lane,	28.25	Y		7027	7029	2	30.50	-	7055	_	-
307	835	430/18	63, De Vos Lanc,	24.25	Y		5772	5773	1	15.25	5783		_	
308	835	435/13	61, De Vos Lane,	16.75	Y						, <u>-</u>			
309	835	440/16	59, De Vos Lane,	35.75	Y		9152	9157	5	76.25	-	9179		_
310	835	445/11	57, De Vos Lane,	42.00	_	Y	7019				7020	7029	9	274.50
311	835	450/13	55, De Vos Lane,	21.75	Y		3443	3445	2	30.50	3457	3458	1	30.50
312	835	455/18	53, De Vos Lane,	37.50	Y		7196	7198	2	30.50	7220	7223	3	91.50
313	835	460/11	51, De Vos Lane,	40.00	Y		-	-	_	-	_			
314	835	470/19	43/1, De Vos Lanc,	15.75	Y		2593	2594	2	30.50	2600	2601	1	30.50
315	835	475/14	43, De Vos Lane,	3.00	Y		-	-	-		-	-	· 	
316	835	485/12	39, De Vos Lane,	10.75	Y		-	-	-		3	4	1	30.50
317	835	11/31/835/001/16	Volanka Pvt. Ltd.	159.75	Y		406	426	20	305,00	550	562	12	366,00

## Note:

- (1) Water meter of Serial No. 16 had been replaced with new one before 3rd reading
- (2) Water meter of Serial No. 173 and 182 were fixed in reverse direction

