

LIST OF FLOW MEASUREMENT

ST.: 2-400 SENANGA

NO.	DATE	----[Feet - Second]----				++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
1	11-Jun-88	10.24	50006	16318	2.89	3.12	1416	1516	0.88
2	15-Jul-88	5.35	27863	10947	2.43	1.63	789	1017	0.74
3	03-Mar-90	8.23	32871	13517	2.43	2.51	931	1256	0.74
4	13-Jun-90	8.66	33541	13517	2.43	2.64	950	1256	0.74
5	28-Jul-90	4.17	16027	7633	2.10	1.27	454	709	0.64
6	26-Aug-90	2.99	12499	7188	1.74	0.91	354	668	0.53
7	01-Oct-90	2.20	8970	6668	1.35	0.67	254	620	0.41
8	28-Oct-90	2.10	8749	6201	1.41	0.64	248	576	0.43
9	09-Dec-90	2.66	11280	6742	1.67	0.81	319	626	0.51
10	01-Feb-91	7.22	25926	10398	2.49	2.20	734	966	0.76
11	07-Mar-91	14.14	58706	17042	3.44	4.31	1662	1583	1.05
12	03-Jul-91	4.72	21515	12373	1.74	1.44	609	1150	0.53
13	22-Aug-91	2.99	8240	6440	1.28	0.91	233	598	0.39
14	10-Sep-91	2.56	7945	7568	1.05	0.78	225	703	0.32
15	03-Oct-91	2.10	8673	6148	1.41	0.64	246	571	0.43
16	15-Nov-91	2.62	8620	7298	1.18	0.80	244	678	0.36

[Note] H:Water Level, Q:Discharge, A:Discharge Area, V:Velocity

MAR/ 3/90

ST. : 2-400 SENANCA

FLOW MEASUREMENT

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ITEMS	NO 1	NO 2	NO 3	NO 4	NO 5	NO 6	NO 7	NO 8	NO 9	NC R	
WATER DEPTH (m)	0.90	2.99	2.98	4.31	5.69	6.32	6.08	5.64	4.99	4.89	3.63
SE/WIDTH (m)	0.00	22.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	3.70
TOTAL SE/WIDTH(m)	0.00	22.00	52.00	92.00	112.00	142.00	172.00	202.00	232.00	262.00	265.70
VELOCITY.2 1(f/s)	0.00	1.40	2.10	2.70	2.80	3.50	3.10	3.00	2.40	1.80	0.00
VELOCITY.2 2(f/s)	0.00	1.50	2.20	2.60	2.80	3.50	3.10	3.00	2.40	1.70	0.00
MEAN VEL.2 (f/s)	0.00	1.45	2.15	2.65	2.80	3.50	3.10	3.00	2.40	1.75	0.00
VELOCITY.8 1(f/s)	0.00	1.00	1.70	2.00	2.40	2.40	2.70	2.50	2.10	1.20	0.00
VELOCITY.8 2(f/s)	0.00	1.10	1.80	2.10	2.50	2.40	2.70	2.50	2.20	1.20	0.00
MEAN VEL.8 (f/s)	0.00	1.05	1.75	2.05	2.45	2.40	2.70	2.50	2.15	1.20	0.00
MEAN VEL (f/s)	0.000	1.250	1.950	2.350	2.625	2.950	2.900	2.750	2.275	1.475	0.000
MEAN VEL (m/s)	0.000	0.381	0.594	0.716	0.800	0.899	0.884	0.838	0.693	0.450	0.000
L/MEAN DEPTH (m)	0.000	1.995	2.983	3.978	5.345	6.163	6.140	5.750	5.153	4.908	
L/MEAN WIDTH (m)	0.00	22.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
L/SEC. AREA (m2)	0.00	41.69	44.74	59.66	80.18	92.44	92.10	86.25	77.29	73.61	
R/MEAN DEPTH (m)	0.000	2.988	3.313	4.655	5.848	6.260	5.970	5.478	4.963	4.255	
R/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	3.70
R/SEC. AREA (m2)	0.00	44.81	49.69	69.83	87.71	93.90	89.55	82.16	74.44	15.74	
S/AREA (m2)	0.00	86.50	94.43	129.49	167.99	186.34	181.65	168.41	151.73	89.36	
TOTAL AREA (m2)	0.0	86.5	180.9	310.4	478.3	664.6	846.3	1014.7	1166.4	1255.8	
S/DISCHARGE(m3/s)	0.00	32.96	56.12	92.75	134.33	167.55	160.56	141.16	105.21	40.17	
TOTAL DIS. (m3/s)	0.00	32.96	99.08	181.93	316.16	493.70	644.27	785.43	890.64	930.81	

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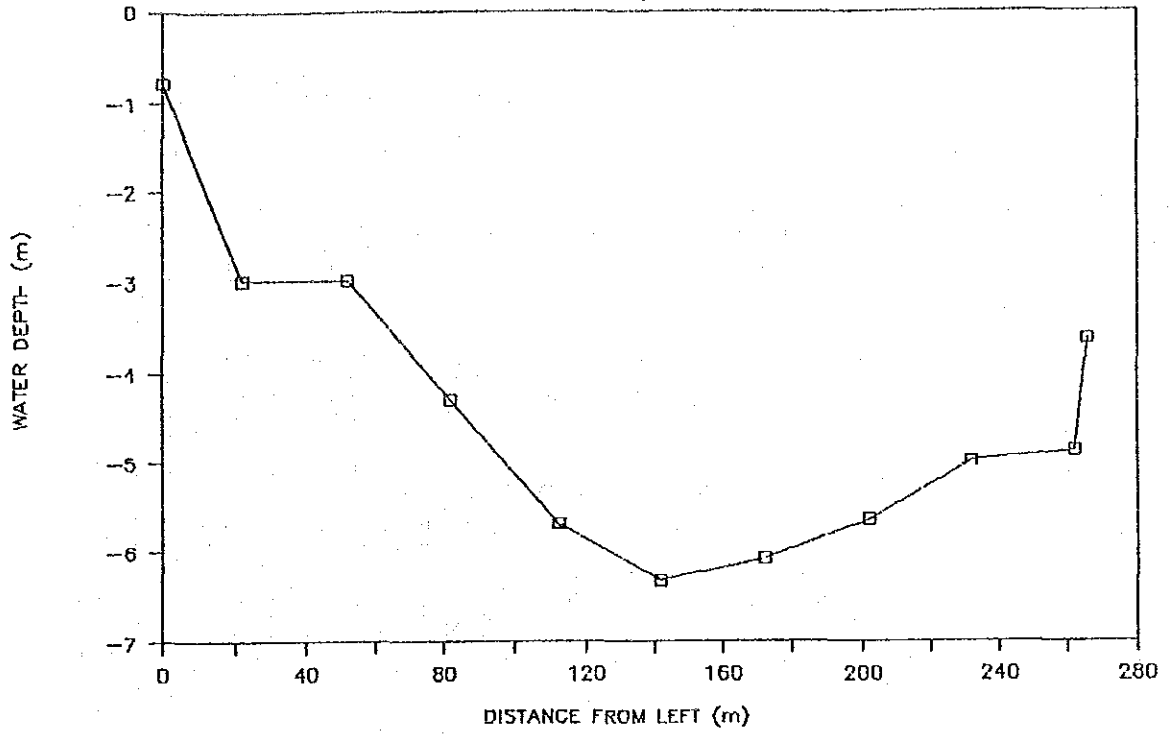
WATER LEVEL (f) : 8.25 WATER LEVEL (m) : 2.51

TOTAL DISCHARGE : 930.81 MEAN VELOCITY(m/s) : 0.74

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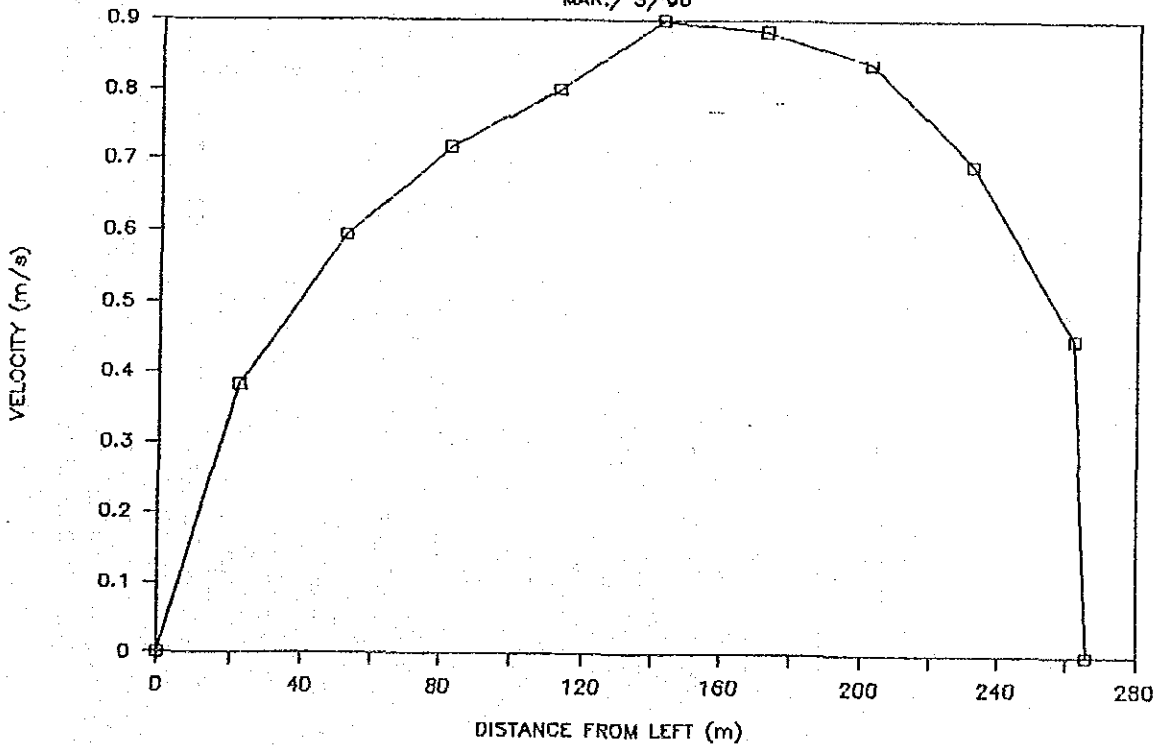
WATER DEPTH (2-400)

MAR./ 3/90



VELOCITY (2-400)

MAR./ 3/90



FLOW MEASUREMENT ST. : 2-400 SENANGA

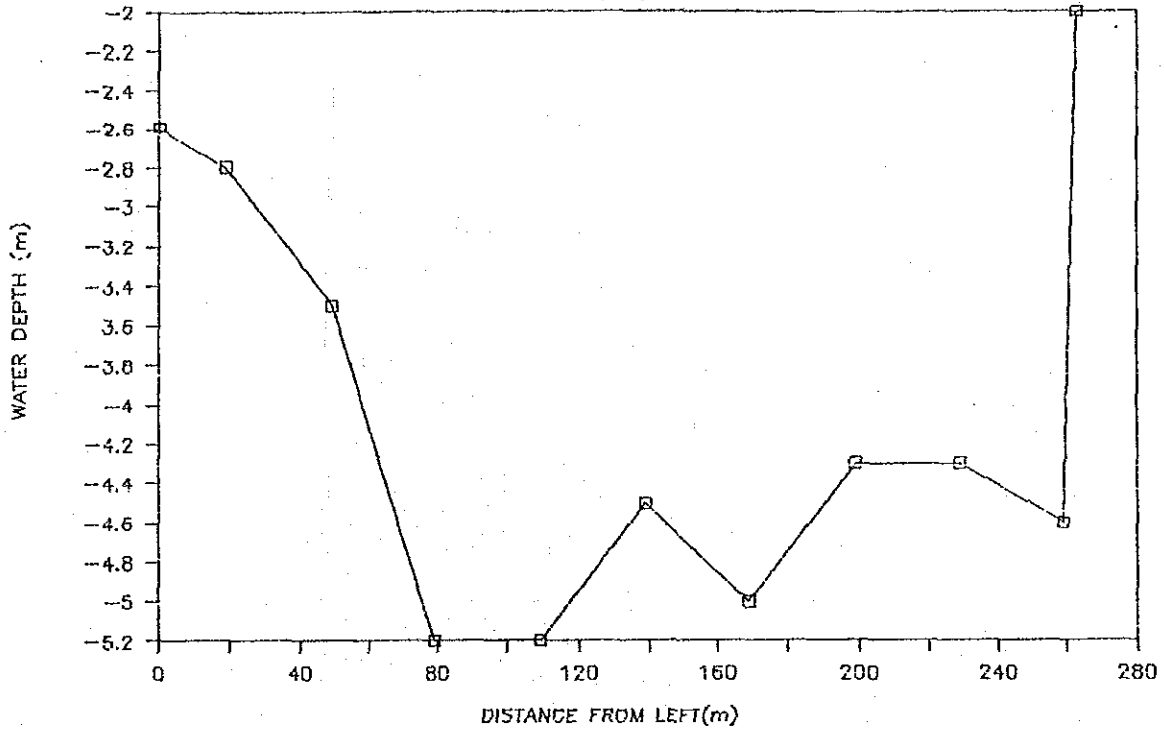
JUN/13/90

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-R
WATER DEPTH (m)	2.60	2.90	3.50	5.20	4.50	5.00	4.30	4.30	4.60	2.00
SE/WIDTH (m)	0.00	19.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	4.00
TOTAL SE/WIDTH(m)	0.00	19.00	49.00	109.00	139.00	169.00	199.00	229.00	259.00	263.00
VELOCITY.2-1(f/s)	0.00	1.90	1.90	2.30	3.50	3.50	3.60	3.00	1.90	0.00
VELOCITY.2-2(f/s)	0.00	1.90	2.00	2.20	3.50	3.50	3.50	3.00	1.90	0.00
MEAN VEL.2 (f/s)	0.00	1.95	1.90	2.25	3.50	3.50	3.55	3.00	1.85	0.00
VELOCITY.8-1(f/s)	0.00	1.70	1.80	2.00	3.00	3.00	3.10	2.90	1.50	0.00
VELOCITY.3-2(f/s)	0.00	1.60	1.80	2.10	2.90	2.90	3.00	2.80	1.40	0.00
MEAN VEL.8 (f/s)	0.00	1.65	1.80	2.05	2.95	2.95	3.05	2.85	1.45	0.00
MEAN VEL (f/s)	0.000	1.750	1.850	2.150	3.225	3.225	3.300	2.925	1.650	0.000
MEAN VEL (m/s)	0.000	0.533	0.564	0.655	0.983	0.983	1.006	0.892	0.503	0.000
L/MEAN DEPTH (m)	0.000	2.700	3.325	4.775	5.200	4.875	4.475	4.300	4.525	-
L/MEAN WIDTH (m)	0.00	19.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	-
L/SEC. AREA (m2)	0.00	51.30	49.88	71.63	78.00	73.13	67.13	64.50	67.97	-
R/MEAN DEPTH (m)	0.000	2.975	3.925	5.200	5.025	4.825	4.300	4.375	3.300	-
R/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	-
R/SEC. AREA (m2)	0.00	44.63	58.88	78.00	75.38	69.38	64.50	65.63	13.20	-
S/AREA (m2)	0.00	95.93	109.75	149.63	153.38	139.50	131.63	130.13	81.07	-
TOTAL AREA (m2)	0.0	95.9	204.7	354.3	507.7	647.2	924.3	1054.4	1135.5	-
S/DISCHARGE(m3/s)	0.00	51.17	61.32	98.05	150.76	143.02	132.39	116.01	40.77	-
TOTAL DIS. (m3/s)	0.00	51.17	112.49	210.54	361.31	517.56	792.98	908.99	949.77	-

WATER LEVEL (f) : 8.65 WATER LEVEL (m) : 2.64
 TOTAL DISCHARGE : 949.77 MEAN VELOCITY(m/s) : 0.84

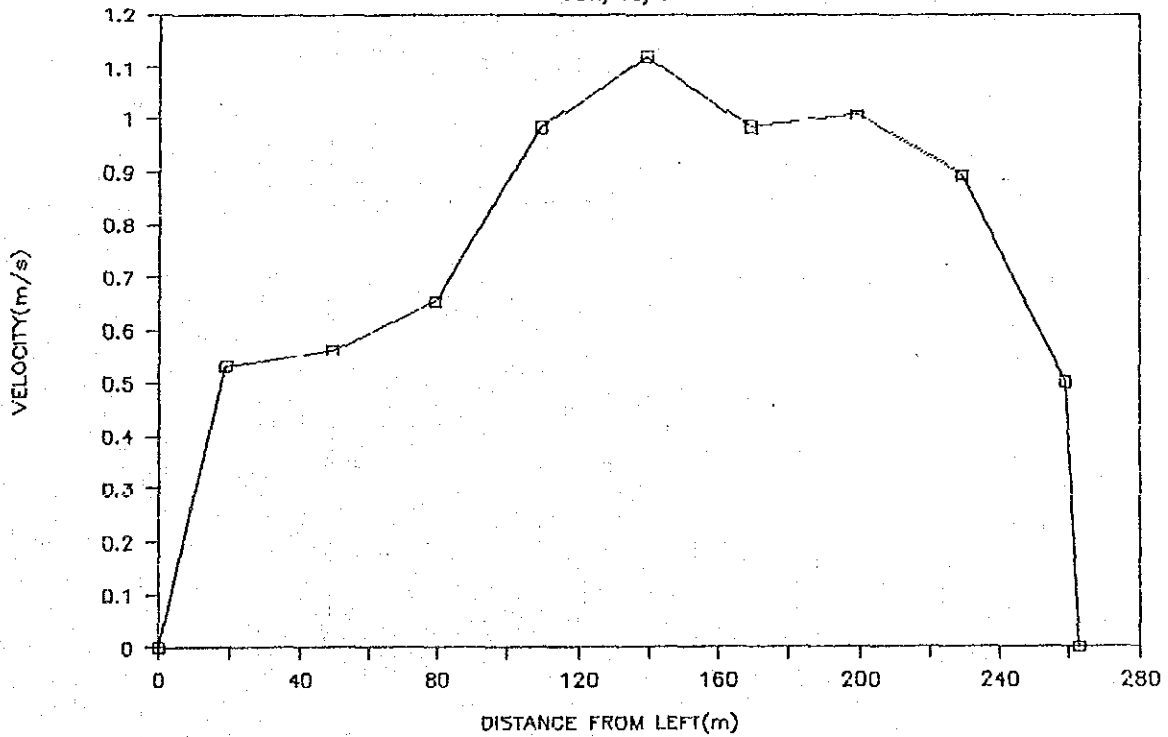
WATER DEPTH (2-400)

JUN/13/90



VELOCITY (2-400)

JUN/13/90



FLOW MEASUREMENT ST. : 2-400 SENANGA

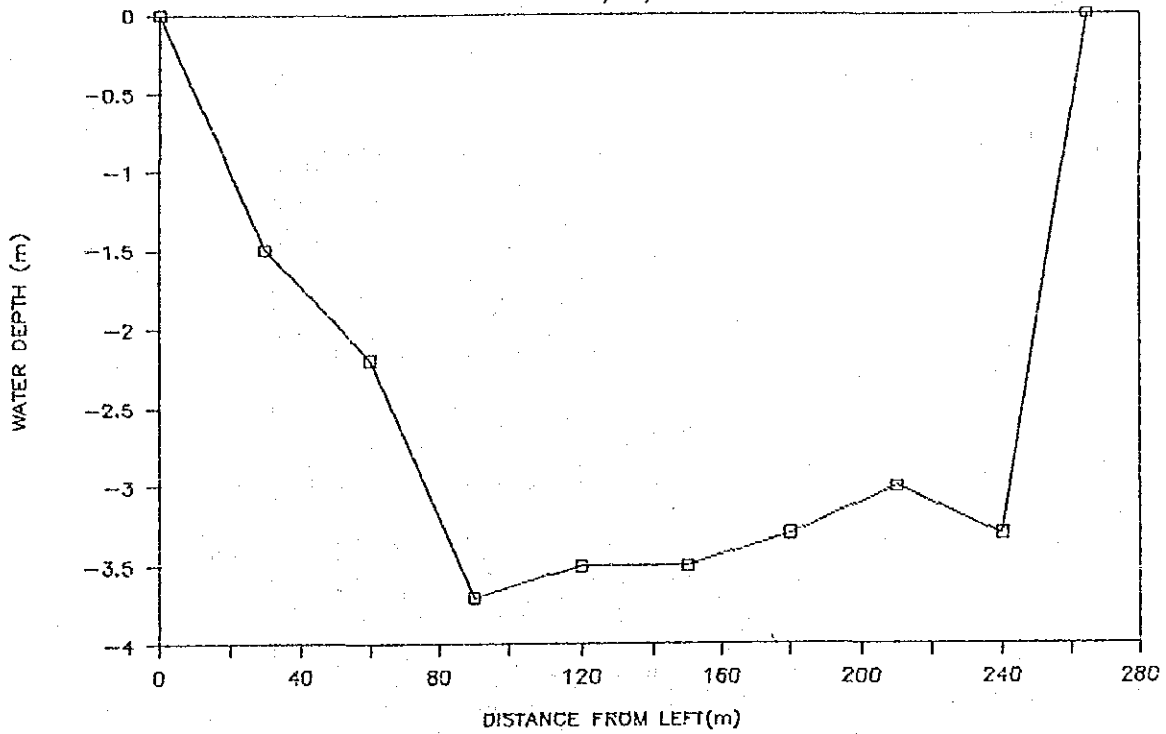
JUL./28/'90

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-R
WATER DEPTH (m)	0.00	1.50	2.20	3.70	3.50	3.50	3.30	3.00	3.30	0.00
SE/WIDTH (m)	0.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	24.50
TOTAL SE/WIDTH(m)	0.00	30.00	60.00	90.00	120.00	150.00	180.00	210.00	240.00	264.50
VELOCITY.2-1(f/s)	0.00	1.90	1.90	2.10	2.75	2.65	2.10	2.30	2.25	0.00
VELOCITY.2-2(f/s)	0.00	1.90	1.90	2.00	2.70	2.60	2.20	2.20	2.20	0.00
MEAN VEL.2 (f/s)	0.00	1.90	1.90	2.05	2.73	2.63	2.15	2.25	2.23	0.00
VELOCITY.8-1(f/s)	0.00	1.85	1.75	1.85	2.20	2.25	1.80	1.95	1.50	0.00
VELOCITY.8-2(f/s)	0.00	1.85	1.75	1.80	2.21	2.20	1.95	1.90	1.55	0.00
MEAN VEL.8 (f/s)	0.00	1.85	1.75	1.83	2.21	2.23	1.88	1.93	1.53	0.00
MEAN VEL (f/s)	0.000	1.875	1.825	1.938	2.465	2.425	2.013	2.088	1.875	0.000
MEAN VEL (m/s)	0.000	0.572	0.556	0.591	0.751	0.739	0.613	0.636	0.572	0.000
L/MEAN DEPTH (m)	0.000	0.750	2.025	3.325	3.550	3.500	3.350	3.075	3.225	-
L/MEAN WIDTH (m)	0.00	30.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	-
L/SEC. AREA (m2)	0.00	22.50	30.38	49.88	53.25	52.50	50.25	46.13	48.38	-
R/MEAN DEPTH (m)	0.000	1.675	2.575	3.650	3.500	3.450	3.225	3.075	1.650	-
R/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	24.50	-
R/SEC. AREA (m2)	0.00	25.13	38.63	54.75	52.50	51.75	48.38	46.13	40.43	-
S/AREA (m2)	0.00	47.63	69.00	104.63	105.75	104.25	98.63	92.25	88.80	-
TOTAL AREA (m2)	0.0	47.6	116.6	221.3	327.0	431.3	529.9	622.1	710.9	-
S/DISCHARGE(m3/s)	0.00	27.22	38.38	61.79	79.45	77.06	60.50	58.70	50.75	-
TOTAL DIS. (m3/s)	0.00	27.22	65.60	127.39	206.84	283.89	344.39	403.09	453.84	-

WATER LEVEL (f) : 4.18
 WATER LEVEL (m) : 1.27
 TOTAL DISCHARGE : 453.84
 MEAN VELOCITY(m/s) : 0.64

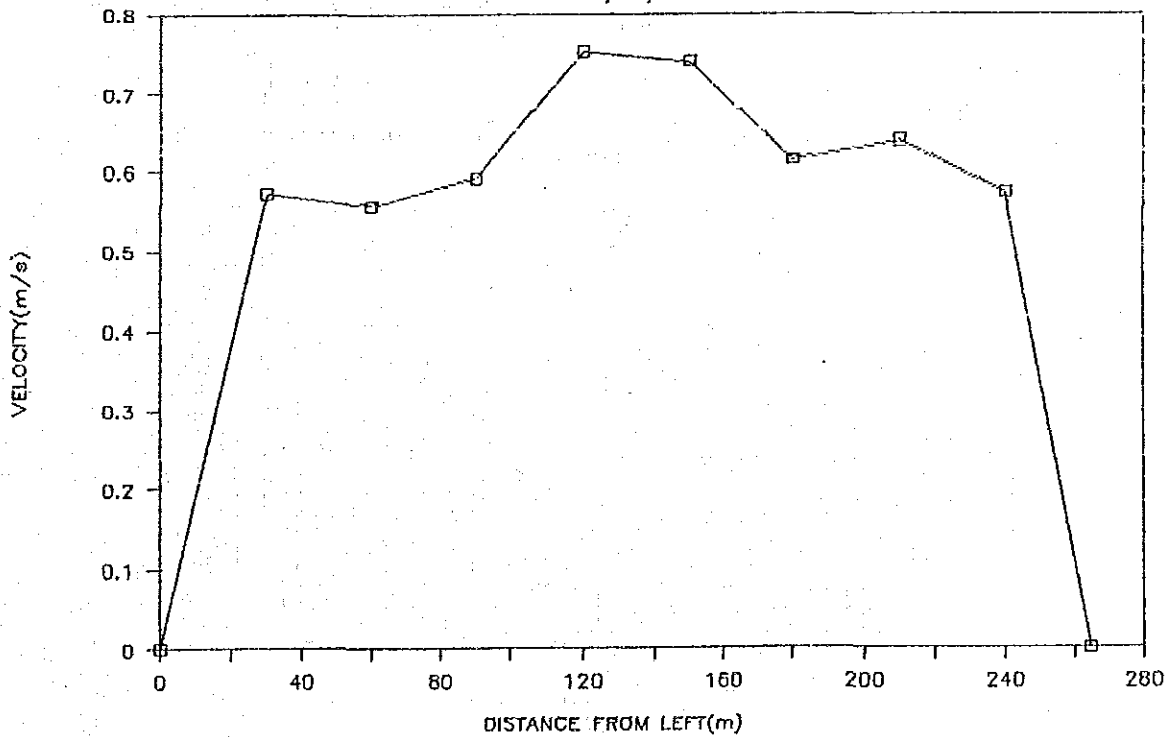
WATER DEPTH (2-400)

JUL./28/'90



VELOCITY (2-400)

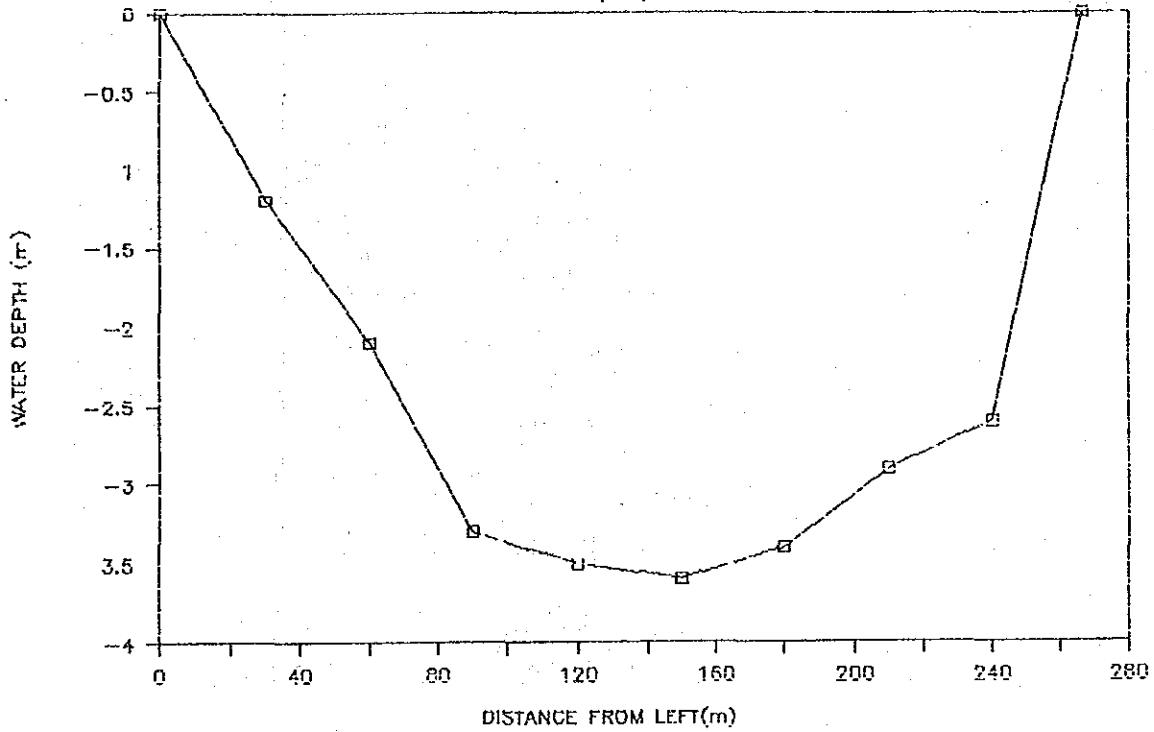
JUL./28/'90



FLOW MEASUREMENT ST. : 2-400 SENANGA											AUG./26/'90										
ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-R	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-R			
WATER DEPTH (m)	0.00	1.20	2.10	3.30	3.50	3.60	3.40	2.90	2.60	0.00	0.00	3.30	3.50	3.60	3.40	2.90	2.60	0.00			
SE/WIDTH (m)	0.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	0.00	0.00	30.00	30.00	30.00	30.00	30.00	30.00	0.00			
TOTAL SE/WIDTH(m)	0.00	30.00	60.00	90.00	120.00	150.00	180.00	210.00	240.00	0.00	0.00	90.00	120.00	150.00	180.00	210.00	240.00	266.50			
VELOCITY.2-1(f/s)	0.00	1.10	1.50	2.00	2.30	2.10	2.00	1.90	1.80	0.00	0.00	2.00	2.30	2.10	2.00	1.90	1.80	0.00			
VELOCITY.2-2(f/s)	0.00	1.10	1.50	2.00	2.30	2.10	2.00	1.90	1.80	0.00	0.00	2.00	2.30	2.10	2.00	1.90	1.80	0.00			
MEAN VEL.2 (f/s)	0.00	1.10	1.50	2.00	2.30	2.10	2.00	1.90	1.80	0.00	0.00	2.00	2.30	2.10	2.00	1.90	1.80	0.00			
VELOCITY.8-1(f/s)	0.00	0.90	1.20	1.80	1.95	1.55	1.50	1.40	1.30	0.00	0.00	1.80	1.95	1.55	1.50	1.40	1.30	0.00			
VELOCITY.8-2(f/s)	0.00	0.90	1.20	1.80	1.95	1.55	1.50	1.40	1.30	0.00	0.00	1.80	1.95	1.55	1.50	1.40	1.30	0.00			
MEAN VEL.8 (f/s)	0.00	0.90	1.20	1.80	1.95	1.55	1.50	1.40	1.30	0.00	0.00	1.80	1.95	1.55	1.50	1.40	1.30	0.00			
MEAN VEL (f/s)	0.000	1.000	1.350	1.900	2.125	1.825	1.750	1.650	1.550	0.000	0.000	1.900	2.125	1.825	1.750	1.650	1.550	0.000			
MEAN VEL (m/s)	0.000	0.305	0.411	0.579	0.648	0.556	0.533	0.503	0.472	0.000	0.000	0.579	0.648	0.556	0.533	0.503	0.472	0.000			
L/MEAN DEPTH (m)	0.000	0.600	1.875	3.000	3.450	3.575	3.450	3.025	2.675	-	-	3.000	3.450	3.575	3.450	3.025	2.675	-			
L/MEAN WIDTH (m)	0.00	30.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	-	-	15.00	15.00	15.00	15.00	15.00	15.00	-			
L/SEC. AREA (m2)	0.00	18.00	28.13	45.00	51.75	53.63	51.75	45.38	40.13	-	-	45.00	51.75	53.63	51.75	45.38	40.13	-			
R/MEAN DEPTH (m)	0.000	1.425	2.400	3.350	3.525	3.550	3.275	2.825	2.300	-	-	3.350	3.525	3.550	3.275	2.825	2.300	-			
R/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	-	-	15.00	15.00	15.00	15.00	15.00	15.00	-			
R/SEC. AREA (m2)	0.00	21.38	36.00	50.25	52.88	53.25	49.13	42.38	34.45	-	-	50.25	52.88	53.25	49.13	42.38	34.45	-			
S/AREA (m2)	0.00	39.38	64.13	95.25	104.63	106.88	100.88	87.75	74.58	-	-	95.25	104.63	106.88	100.88	87.75	74.58	-			
TOTAL AREA (m2)	0.0	39.4	103.5	198.8	303.4	410.3	511.1	598.9	673.5	-	-	198.8	303.4	410.3	511.1	598.9	673.5	-			
S/DISCHARGE(m3/s)	0.00	12.00	26.39	55.16	67.77	59.45	53.81	44.13	35.23	-	-	55.16	67.77	59.45	53.81	44.13	35.23	-			
TOTAL DIS. (m3/s)	0.00	12.00	38.39	93.55	161.31	220.76	274.57	318.70	353.93	-	-	93.55	161.31	220.76	274.57	318.70	353.93	-			
WATER LEVEL (f) :	3.00	WATER LEVEL (m) : 0.91																			
TOTAL DISCHARGE :	353.93	MEAN VELOCITY(m/s) : 0.53																			

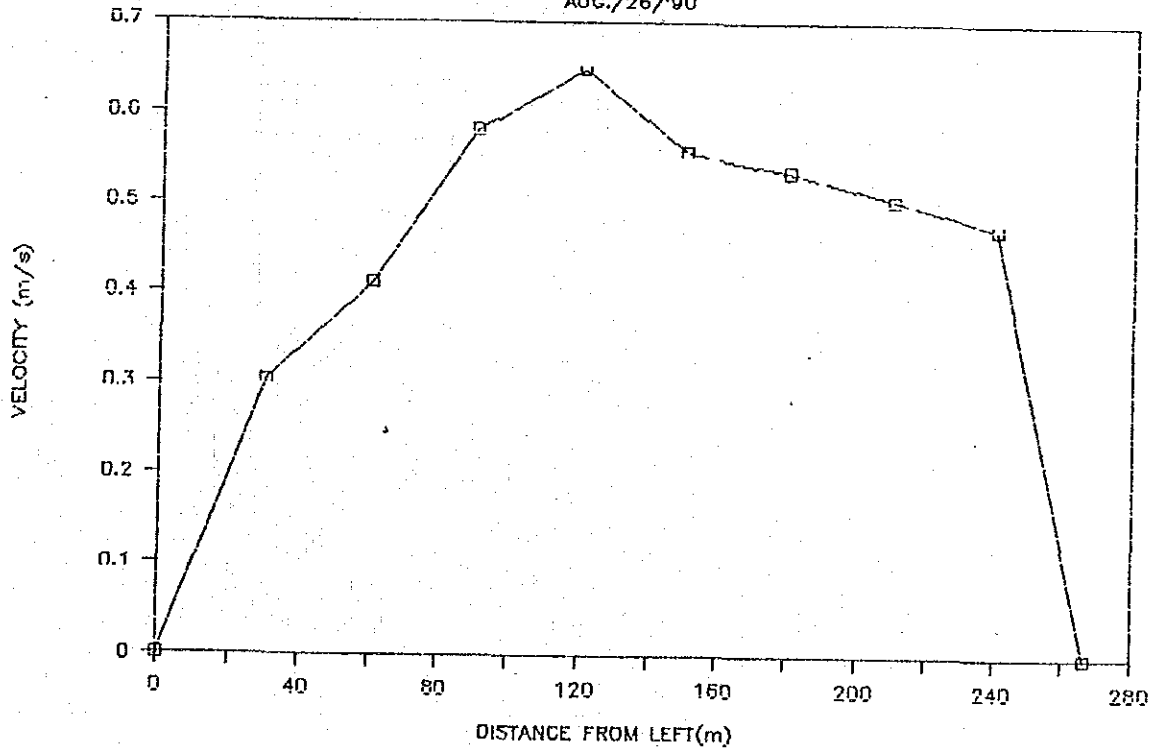
WATER DEPTH (2-400)

AUG./26/90



VELOCITY (2-400)

AUG./26/90



FLOW MEASUREMENT ST. : 2-400 SENANGA

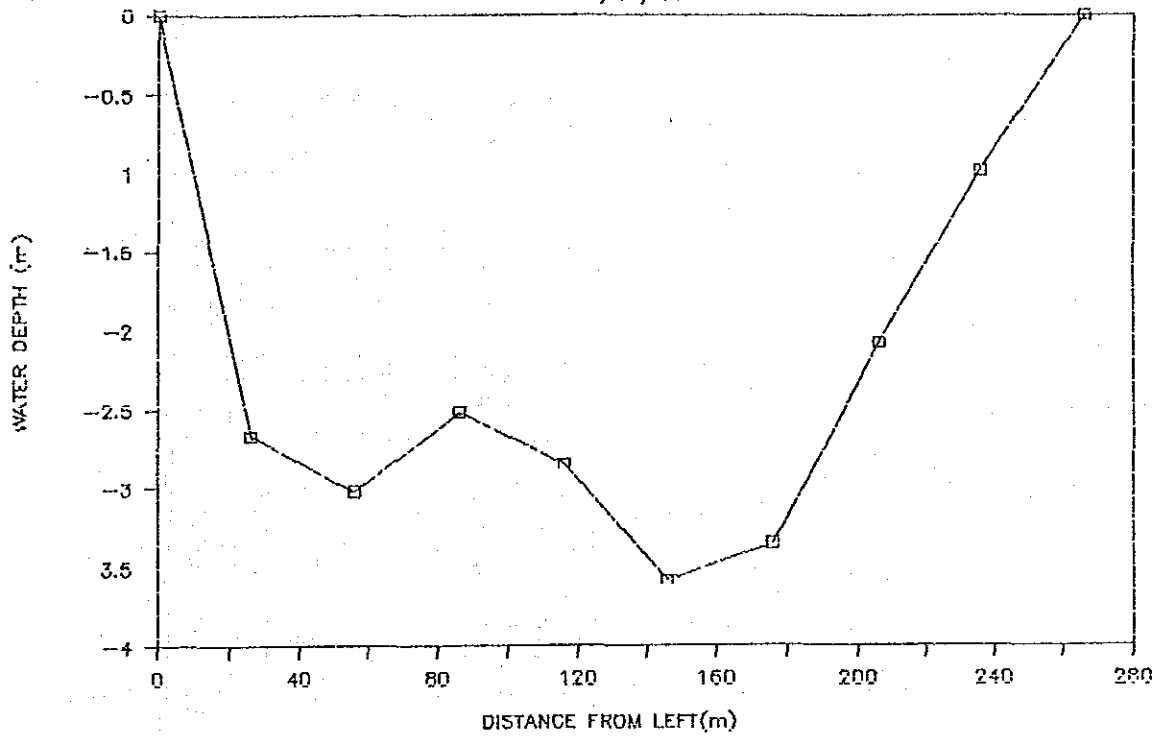
OCT./01/'90

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-R
WATER DEPTH (m)	2.67	3.02	2.52	2.85	3.58	3.35	2.08	0.99	0.00
SE/WIDTH (m)	0.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
TOTAL SE/WIDTH(m)	0.00	58.00	86.00	116.00	146.00	176.00	206.00	236.00	266.00
VELOCITY.2-1(f/s)	1.20	1.50	1.80	2.00	1.80	1.50	1.50	0.90	0.00
VELOCITY.2-2(f/s)	1.20	1.50	1.80	2.00	1.80	1.50	1.50	0.90	0.00
MEAN VEL.2 (f/s)	1.20	1.50	1.80	2.00	1.80	1.50	1.50	0.90	0.00
VELOCITY.8-1(f/s)	0.80	0.60	1.20	1.60	1.20	1.30	1.00	0.35	0.00
VELOCITY.8-2(f/s)	0.85	0.60	1.20	1.60	1.20	1.30	1.00	0.35	0.00
MEAN VEL.8 (f/s)	0.83	0.60	1.20	1.60	1.20	1.30	1.00	0.35	0.00
MEAN VEL (f/s)	1.013	1.050	1.500	1.800	1.500	1.400	1.250	0.625	0.000
MEAN VEL (m/s)	0.309	0.320	0.457	0.549	0.457	0.427	0.381	0.191	0.000
L/MEAN DEPTH (m)	1.335	2.933	2.645	2.768	3.368	3.408	2.388	1.263	-
L/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	-
L/SEC. AREA (m2)	34.71	43.99	39.68	41.51	50.96	51.11	35.96	18.94	-
R/MEAN DEPTH (m)	2.758	2.895	2.803	3.033	3.523	3.033	1.808	0.495	-
R/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	30.00	-
R/SEC. AREA (m2)	41.36	43.43	39.04	45.49	52.84	45.49	27.11	14.85	-
S/AREA (m2)	76.07	87.41	78.71	87.00	103.80	96.60	63.08	33.79	-
TOTAL AREA (m2)	0.0	76.1	242.2	329.2	433.0	529.6	592.7	626.5	-
S/DISCHARGE(m3/s)	0.00	23.48	35.99	47.73	47.46	41.22	24.03	6.44	-
TOTAL DIS. (m3/s)	0.00	23.48	51.45	87.44	135.17	182.63	247.88	254.32	-

WATER LEVEL (f) : 2.20 WATER LEVEL (m) : 0.67
 TOTAL DISCHARGE : 254.32 MEAN VELOCITY(m/s) : 0.41

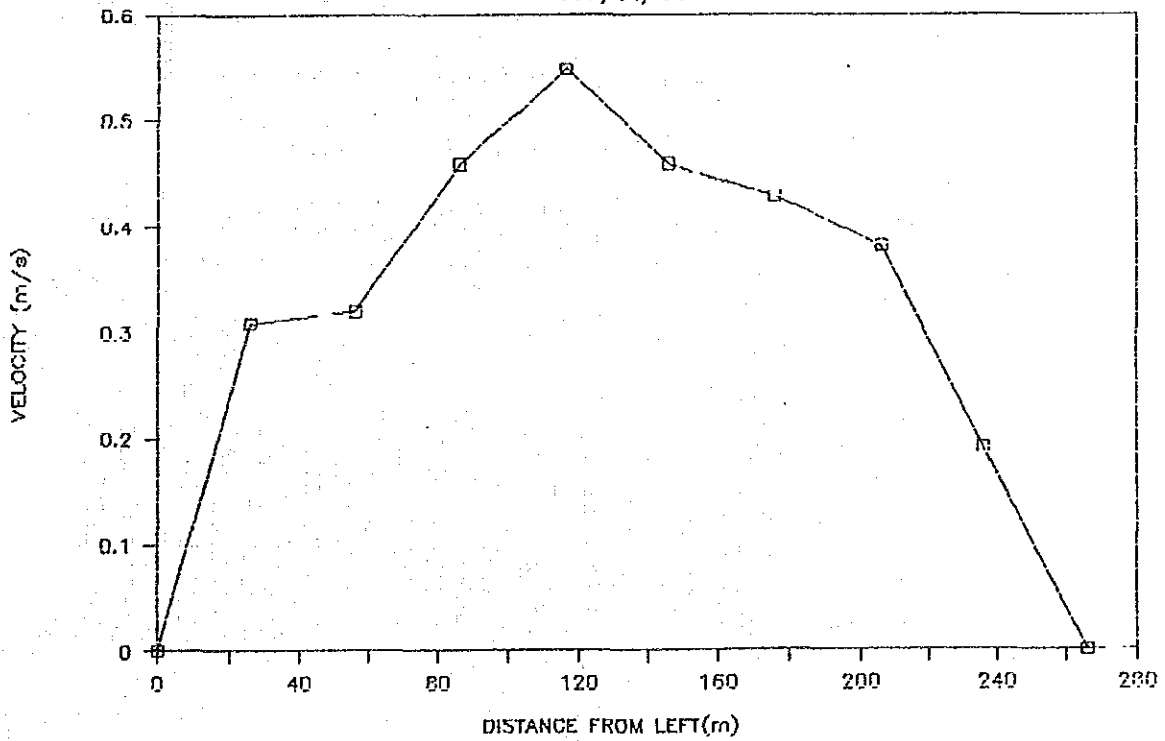
WATER DEPTH (2-400)

001./01/90



VELOCITY (2-400)

001./01/90



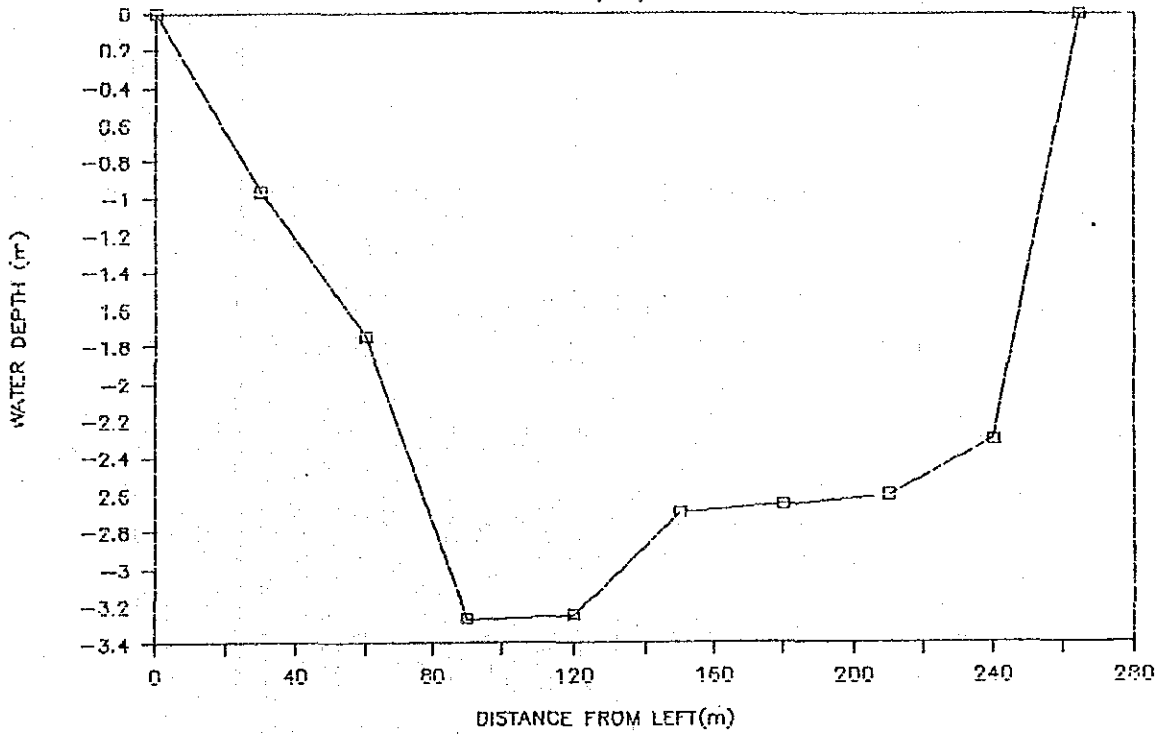
FLOW MEASUREMENT ST. : 2-400 SENANGA

OCT./28/'90

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-R
WATER DEPTH (m)	0.97	1.75	3.27	3.25	2.70	2.65	2.60	2.30	0.00
SE/WIDTH (m)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	24.50
TOTAL SE/WIDTH(m)	30.00	60.00	90.00	120.00	150.00	180.00	210.00	240.00	264.50
VELOCITY.2-1(f/s)	0.85	1.20	1.90	1.85	2.00	1.85	1.45	1.40	0.00
VELOCITY.2-2(f/s)	0.85	1.20	1.90	1.85	2.00	1.85	1.45	1.40	0.00
MEAN VEL.2 (f/s)	0.85	1.20	1.90	1.85	2.00	1.85	1.45	1.40	0.00
VELOCITY.8-1(f/s)	0.55	0.90	1.45	1.20	1.55	1.00	1.10	0.90	0.00
VELOCITY.8-2(f/s)	0.55	0.90	1.45	1.20	1.55	1.00	1.10	0.90	0.00
MEAN VEL.8 (f/s)	0.55	0.90	1.45	1.20	1.55	1.00	1.10	0.90	0.00
MEAN VEL (f/s)	0.700	1.050	1.675	1.525	1.775	1.425	1.275	1.150	0.000
MEAN VEL (m/s)	0.213	0.320	0.511	0.465	0.541	0.434	0.389	0.351	0.000
L/MEAN DEPTH (m)	0.485	1.555	2.890	3.255	2.838	2.663	2.613	2.375	-
L/MEAN WIDTH (m)	30.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	-
L/SEC. AREA (m2)	14.55	23.33	43.35	48.83	42.56	39.94	39.19	35.63	-
R/MEAN DEPTH (m)	1.165	2.130	3.265	3.113	2.688	2.638	2.525	1.150	-
R/MEAN WIDTH (m)	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	-
R/SEC. AREA (m2)	17.48	31.95	48.98	46.69	40.31	39.56	37.88	28.18	-
S/AREA (m2)	32.03	55.28	92.33	95.51	82.88	79.50	77.06	63.80	-
TOTAL AREA (m2)	32.0	87.3	179.6	275.1	358.0	437.5	514.6	578.4	-
S/DISCHARGE(m3/s)	6.83	17.69	47.14	44.40	44.84	34.53	29.95	22.36	-
TOTAL DIS. (m3/s)	6.83	24.52	71.66	116.05	160.89	195.42	225.37	247.73	-
WATER LEVEL (f)	2.11	WATER LEVEL (m) : 0.64							
TOTAL DISCHARGE	247.73	MEAN VELOCITY(m/s) : 0.43							

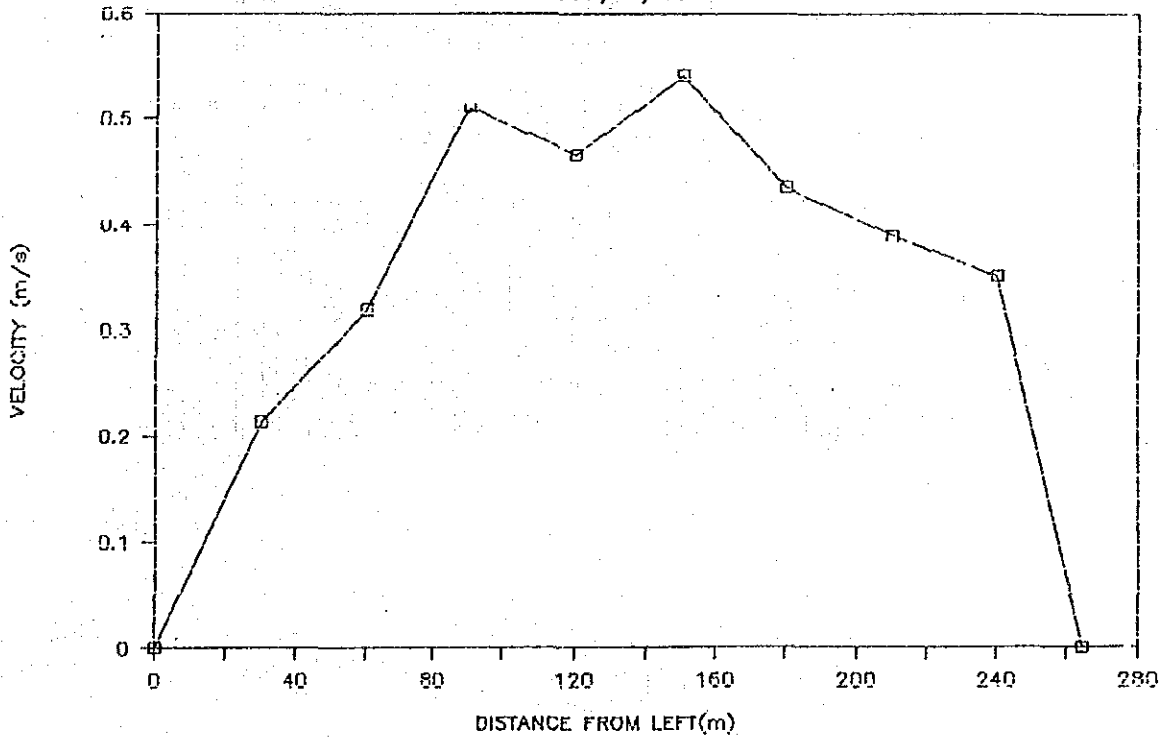
WATER DEPTH (2-400)

06/28/90



VELOCITY (2-400)

06/28/90



FLOW MEASUREMENT ST. : 2-400 SEWANGA

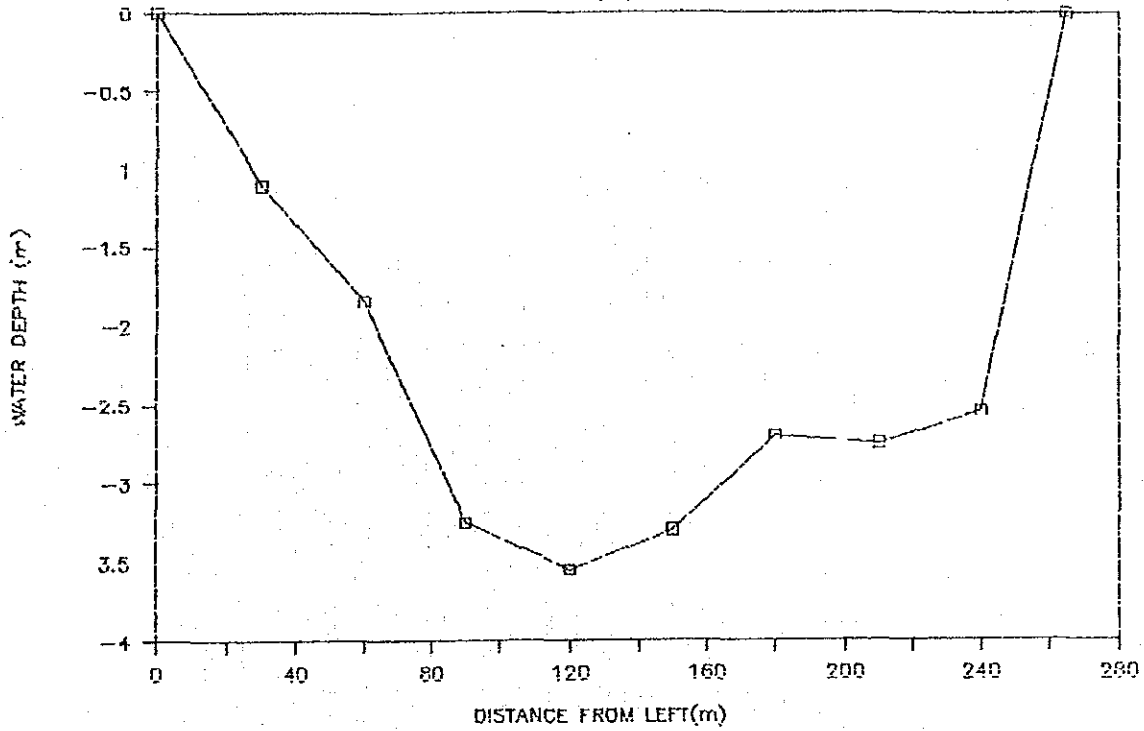
DEC./9/'90

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-R
WATER DEPTH (m)	1.11	1.85	3.25	3.55	3.30	2.70	2.75	2.55	0.00
SE/WIDTH (m)	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	25.00
TOTAL SE/WIDTH(m)	30.00	60.00	90.00	120.00	150.00	180.00	210.00	240.00	265.00
VELOCITY 2-1(f/s)	1.00	1.50	1.90	2.10	2.30	2.00	1.65	1.60	0.00
VELOCITY 2-2(f/s)	1.00	1.50	1.90	2.10	2.30	2.00	1.65	1.60	0.00
MEAN VEL. 2 (f/s)	1.00	1.50	1.90	2.10	2.30	2.00	1.65	1.60	0.00
VELOCITY 8-1(f/s)	0.80	1.15	1.50	1.80	2.00	1.70	1.20	1.10	0.00
VELOCITY 8-2(f/s)	0.80	1.15	1.50	1.80	2.00	1.70	1.20	1.10	0.00
MEAN VEL. 8 (f/s)	0.80	1.15	1.50	1.80	2.00	1.70	1.20	1.10	0.00
MEAN VEL (f/s)	0.900	1.325	1.700	1.950	2.150	1.850	1.425	1.350	0.000
MEAN VEL (m/s)	0.274	0.404	0.518	0.594	0.655	0.564	0.434	0.411	0.000
L/MEAN DEPTH (m)	0.000	0.555	2.900	3.475	3.363	2.850	2.738	2.600	-
L/MEAN WIDTH (m)	0.00	30.00	15.00	15.00	15.00	15.00	15.00	15.00	-
L/SEC. AREA (m2)	0.00	16.65	24.98	43.50	52.13	50.44	42.75	41.06	39.00
R/MEAN DEPTH (m)	0.000	1.295	2.200	3.325	3.488	3.150	2.713	2.700	1.275
R/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	25.00
R/SEC. AREA (m2)	0.00	19.43	33.00	49.88	52.31	47.25	40.69	40.50	31.88
S/AREA (m2)	0.00	36.08	57.98	93.38	104.44	97.69	83.44	81.56	70.88
TOTAL AREA (m2)	0.0	36.1	94.1	187.4	291.9	389.6	473.0	554.6	625.4
S/DISCHARGE (m3/s)	0.00	9.90	23.41	48.38	62.07	64.02	47.05	35.43	29.16
TOTAL DIS. (m3/s)	0.00	9.90	33.31	81.69	143.77	207.78	254.83	290.26	319.42

WATER LEVEL (f) : 2.65 WATER LEVEL (m) : 0.81
 TOTAL DISCHARGE : 319.42 MEAN VELOCITY(m/s) : 0.51

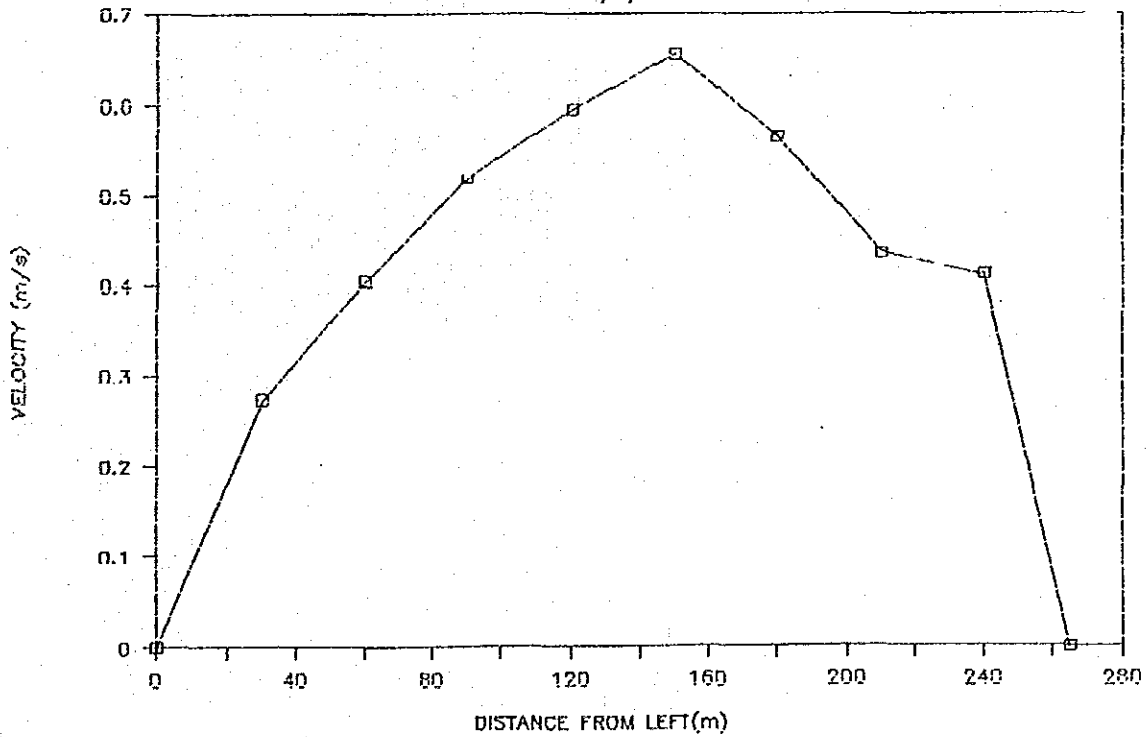
WATER DEPTH (2-400)

DEC./0/00



VELOCITY (2-400)

DEC./0/00

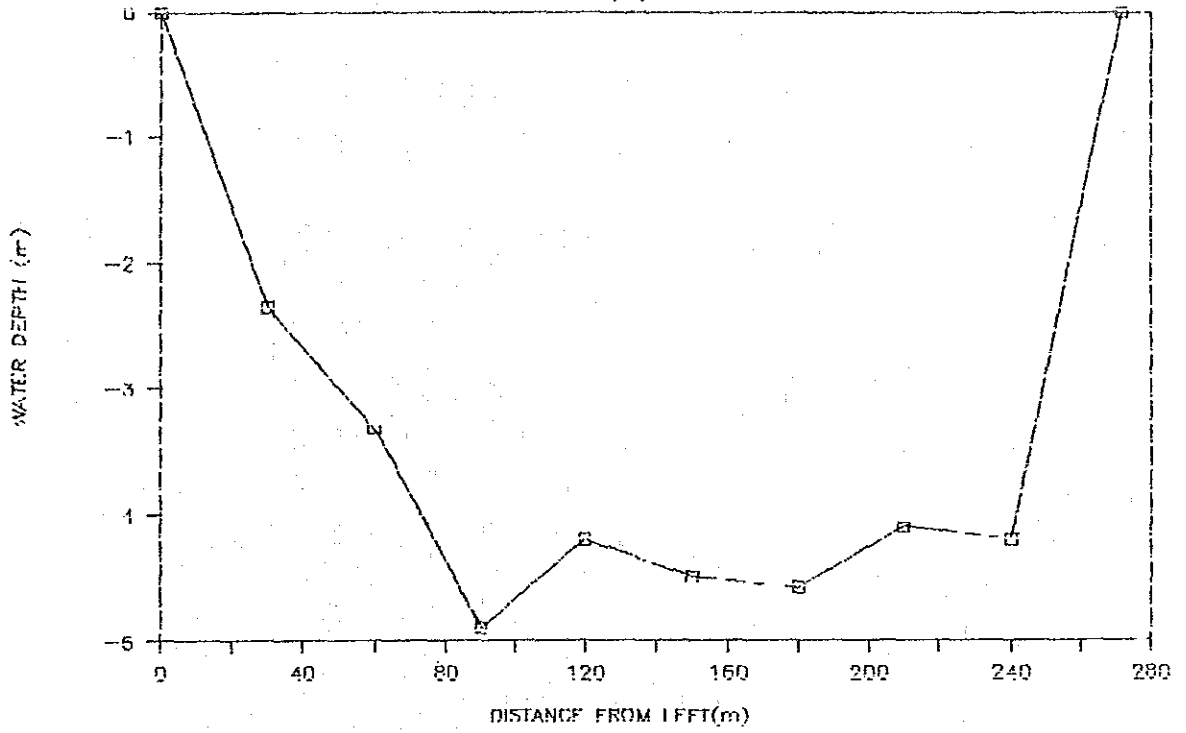


ITEMS	ND-1	ND-2	ND-3	ND-4	ND-5	ND-6	ND-7	ND-8	ND-R
WATER DEPTH (m)	0.00	2.35	3.32	4.90	4.20	4.50	4.10	4.20	0.00
SE/WIDTH (m)	0.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	31.50
TOTAL SE/WIDTH(m)	0.00	30.00	60.00	90.00	120.00	150.00	180.00	210.00	240.00
VELOCITY.2-1(F/S)	0.00	1.64	2.50	2.80	3.20	3.00	3.00	2.50	0.00
VELOCITY.2-2(F/S)	0.00	1.64	2.50	2.80	3.20	3.00	3.00	2.50	0.00
MEAN VEL.2 (F/S)	0.00	1.64	2.50	2.80	3.20	3.00	3.00	2.50	0.00
VELOCITY.8-1(F/S)	0.00	1.20	2.20	2.20	2.40	2.20	2.20	2.10	0.00
VELOCITY.8-2(F/S)	0.00	1.20	2.20	2.20	2.40	2.20	2.20	2.10	0.00
MEAN VEL.8 (F/S)	0.00	1.20	2.20	2.20	2.40	2.20	2.20	2.10	0.00
MEAN VEL (F/S)	0.000	1.420	2.350	2.500	2.800	2.700	2.600	2.300	0.000
MEAN VEL (m/s)	0.000	0.433	0.716	0.762	0.833	0.823	0.792	0.833	0.000
L/MEAN DEPTH (m)	0.000	1.175	3.078	4.505	4.375	4.425	4.560	4.220	4.175
L/MEAN WIDTH (m)	0.00	30.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
L/SEC. AREA (m2)	0.00	35.25	46.16	67.58	65.63	66.38	68.40	63.30	62.63
R/MEAN DEPTH (m)	0.000	2.593	3.715	4.725	4.275	4.520	4.125	4.100	0.000
R/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
R/SEC. AREA (m2)	0.00	38.89	55.73	70.88	64.13	67.80	66.90	61.88	66.15
S/AREA (m2)	0.00	74.14	101.89	138.45	129.75	134.18	135.30	125.18	128.78
TOTAL AREA (m2)	0.0	74.1	176.0	314.5	444.2	578.4	713.7	838.9	967.7
S/DISCHARGE(m3/s)	0.00	32.09	72.98	105.50	110.73	110.42	107.22	104.92	90.28
TOTAL DIS. (m3/s)	0.00	32.09	105.07	210.57	321.30	431.72	538.94	643.87	734.14

WATER LEVEL (F) : 7.21 WATER LEVEL (m) : 2.20
 TOTAL DISCHARGE : 734.14 MEAN VELOCITY(m/s) : 0.76

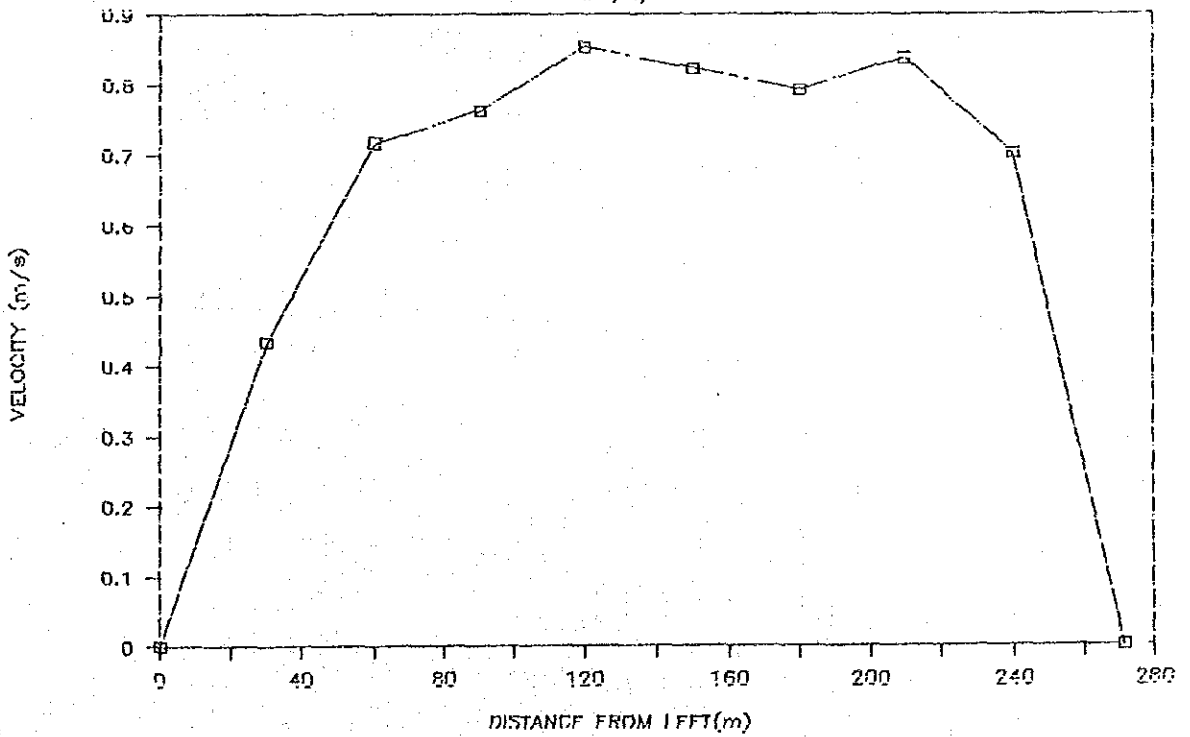
WATER DEPTH (2-400)

FEB./1/91



VELOCITY (2-400)

FEB./1/91



MAR./7/'91

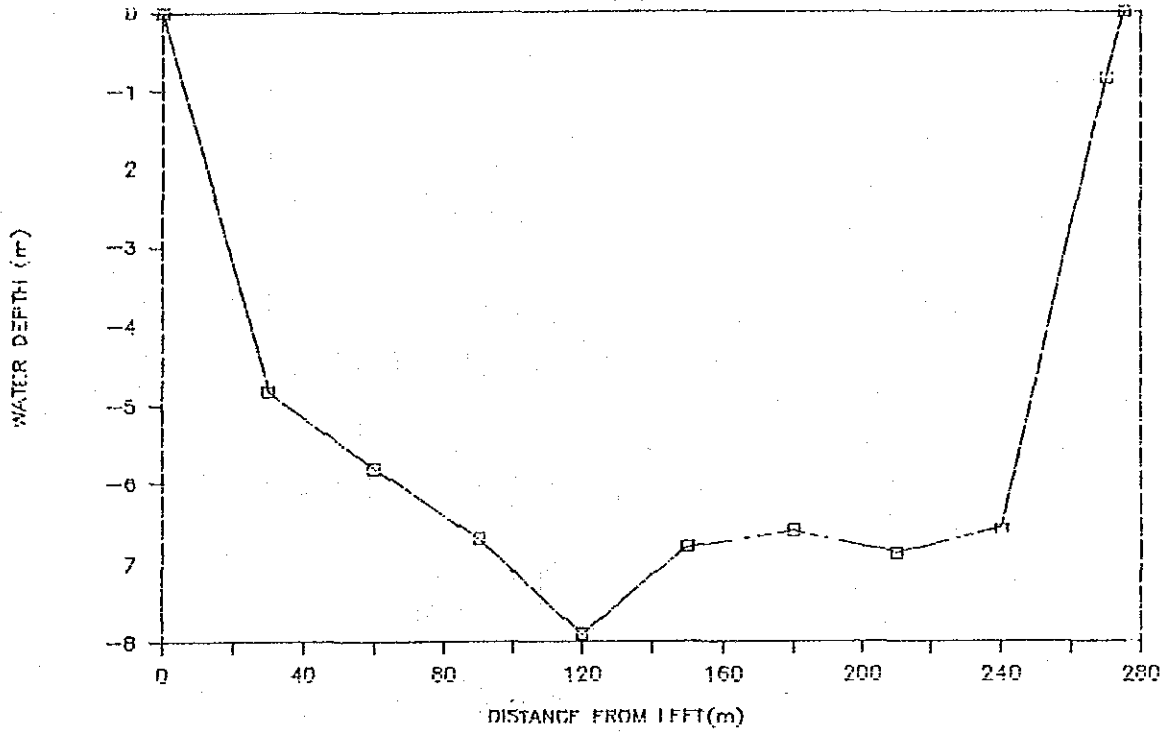
FLOW MEASUREMENT ST. : 2-400 SENANGA

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-R
WATER DEPTH (m)	0.00	4.83	5.80	6.70	7.90	6.80	6.88	6.57	0.84	0.00
SE/WIDTH (m)	0.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	5.00
TOTAL SE/WIDTH(m)	0.00	30.00	60.00	90.00	120.00	150.00	210.00	240.00	270.00	275.00
VELOCITY.2-1(f/s)	0.00	2.25	3.20	4.40	4.50	5.00	4.50	2.50	0.10	0.00
VELOCITY.2-2(f/s)	0.00	2.25	3.20	4.40	4.50	5.00	4.50	2.50	0.10	0.00
MEAN VEL.2 (f/s)	0.00	2.25	3.20	4.40	4.50	5.00	4.50	2.50	0.10	0.00
VELOCITY.3-1(f/s)	0.00	1.50	3.00	2.70	3.50	4.20	3.00	1.50	-	0.00
VELOCITY.3-2(f/s)	0.00	1.50	3.00	2.70	3.50	4.20	3.00	1.50	-	0.00
MEAN VEL.3 (f/s)	0.00	1.50	3.00	2.70	3.50	4.20	3.00	1.50	-	0.00
MEAN VEL (f/s)	0.000	1.375	3.100	3.550	4.000	4.600	3.750	2.000	0.100	0.000
MEAN VEL (m/s)	0.000	0.572	0.945	1.082	1.219	1.402	1.143	0.610	0.030	0.000
L/MEAN DEPTH (m)	0.000	2.415	5.558	6.475	7.600	7.075	6.810	6.648	2.273	-
L/MEAN WIDTH (m)	0.00	30.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	-
L/SEC. AREA (m2)	0.00	72.45	83.36	97.13	114.00	106.13	102.15	99.71	34.09	-
R/MEAN DEPTH (m)	0.000	5.073	6.025	7.000	7.625	6.750	6.803	5.138	0.420	-
R/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	5.00	-
R/SEC. AREA (m2)	0.00	76.09	90.38	105.00	114.38	101.25	102.04	77.06	2.10	-
S/AREA (m2)	0.00	148.54	173.74	202.13	228.38	207.38	204.19	176.78	36.19	-
TOTAL AREA (m2)	0.0	148.5	322.3	524.4	752.8	960.2	1364.1	1540.9	1577.1	-
S/DISCHARGE(m3/s)	0.00	84.89	164.16	218.71	278.43	290.76	233.39	107.76	1.10	-
TOTAL DIS. (m3/s)	0.00	84.89	249.05	467.76	746.19	1036.95	1553.52	1661.28	1662.38	-

WATER LEVEL (f) : 14.14 WATER LEVEL (m) : 4.31
 TOTAL DISCHARGE : 1662.38 MEAN VELOCITY(m/s) : 1.05

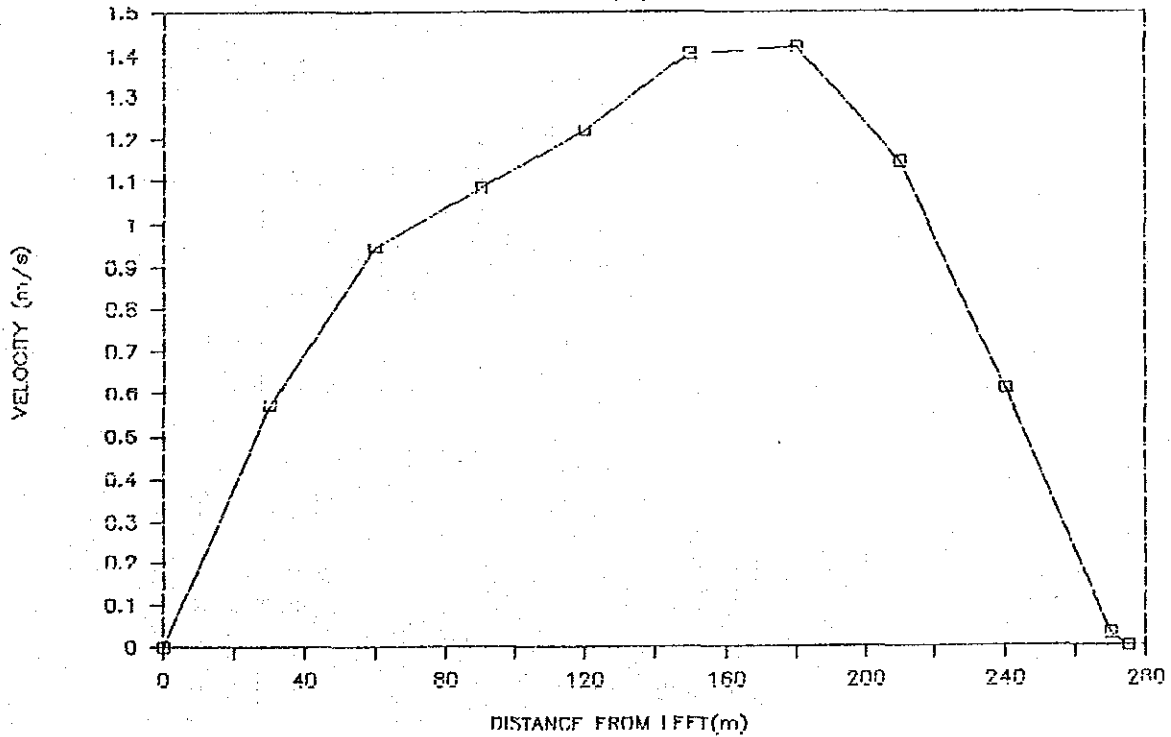
WATER DEPTH (2-400)

MAK.///'91



VELOCITY (2-400)

MAK.///'91



3/JUL/'91

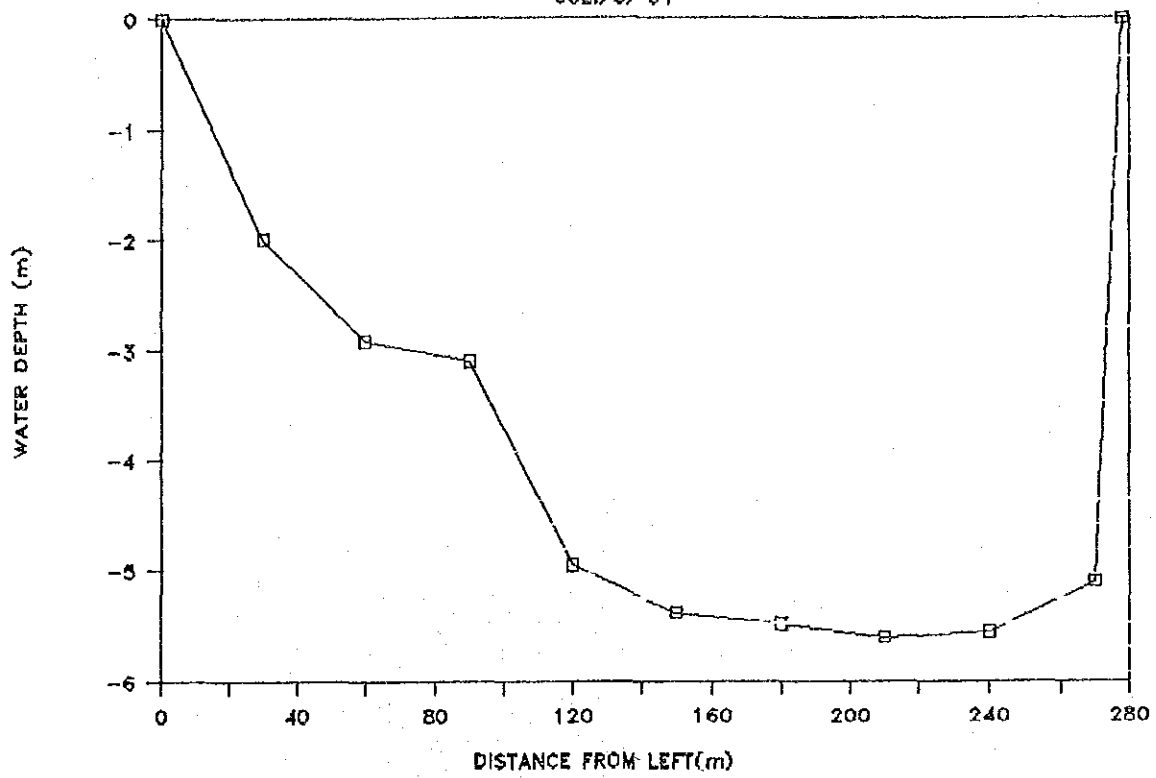
FLOW MEASUREMENT ST. : 2-400 SENANGA

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-R
WATER DEPTH (m)	0.00	2.00	2.92	3.10	4.95	5.38	5.48	5.60	5.55	5.10	0.00
SE/WIDTH (m)	0.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	8.00
TOTAL SE/WIDTH(m)	0.00	30.00	60.00	90.00	120.00	150.00	180.00	210.00	240.00	270.00	278.00
VELOCITY.2-1(f/s)	0.00	1.35	1.70	1.90	2.50	2.20	2.10	1.90	1.90	1.50	0.00
VELOCITY.2-2(f/s)	0.00	1.30	1.60	2.00	2.50	2.40	1.90	2.00	1.80	1.20	0.00
MEAN VEL.2 (f/s)	0.00	1.33	1.65	1.95	2.50	2.30	2.00	1.95	1.85	1.35	0.00
VELOCITY.8-1(f/s)	0.00	0.70	0.80	1.60	2.10	1.70	1.70	1.60	1.40	1.00	0.00
VELOCITY.8-2(f/s)	0.00	0.80	0.90	1.40	2.20	1.60	1.90	1.40	1.50	0.90	0.00
MEAN VEL.8 (f/s)	0.00	0.75	0.85	1.50	2.15	1.65	1.80	1.50	1.45	0.95	0.00
MEAN VEL (f/s)	0.000	1.038	1.250	1.725	2.325	1.975	1.900	1.725	1.650	1.350	0.000
MEAN VEL (m/s)	0.000	0.316	0.381	0.526	0.709	0.602	0.579	0.526	0.503	0.411	0.000
L/MEAN DEPTH (m)	0.000	1.000	2.690	3.055	4.488	5.273	5.455	5.570	5.563	5.213	-
L/MEAN WIDTH (m)	0.00	30.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	-
L/SEC. AREA (m2)	0.00	30.00	40.35	45.83	67.31	79.09	81.83	83.55	83.44	78.19	-
R/MEAN DEPTH (m)	0.000	2.230	2.965	3.563	5.058	5.405	5.510	5.588	5.438	2.550	-
R/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	8.00	-
R/SEC. AREA (m2)	0.00	33.45	44.48	53.44	75.86	81.08	82.65	83.81	81.56	20.40	-
S/AREA (m2)	0.00	63.45	84.83	99.26	143.18	160.16	164.48	167.36	165.00	98.59	-
TOTAL AREA (m2)	0.0	63.5	148.3	247.5	390.7	550.9	715.4	882.7	1047.7	1146.3	-
S/DISCHARGE(m3/s)	0.00	20.06	32.32	52.19	101.46	96.41	95.25	88.00	82.98	40.57	-
TOTAL DIS. (m3/s)	0.00	20.06	52.38	104.57	206.04	302.45	397.70	485.70	568.68	609.25	-

WATER LEVEL (f) : 4.74 WATER LEVEL (m) : 1.44
 TOTAL DISCHARGE : 609.25 MEAN VELOCITY(m/s) : 0.53

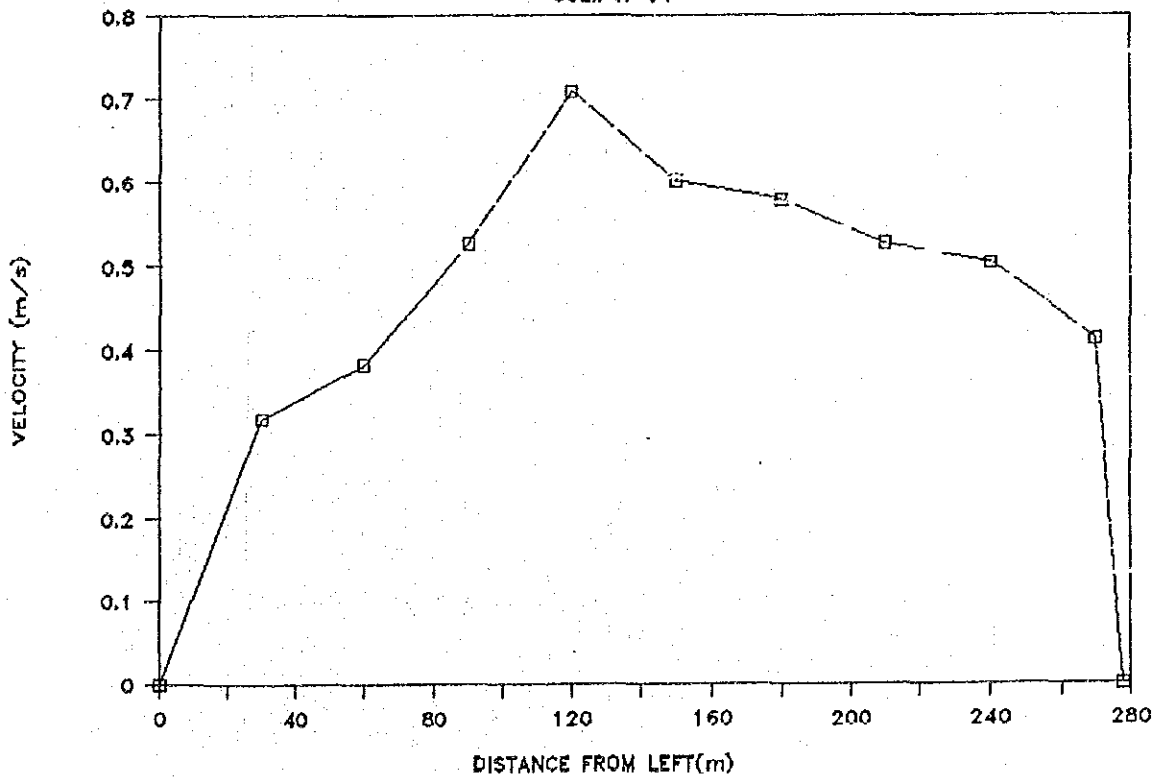
WATER DEPTH (2 400)

JUL./3/'91



VELOCITY (2 400)

JUL./3/'91



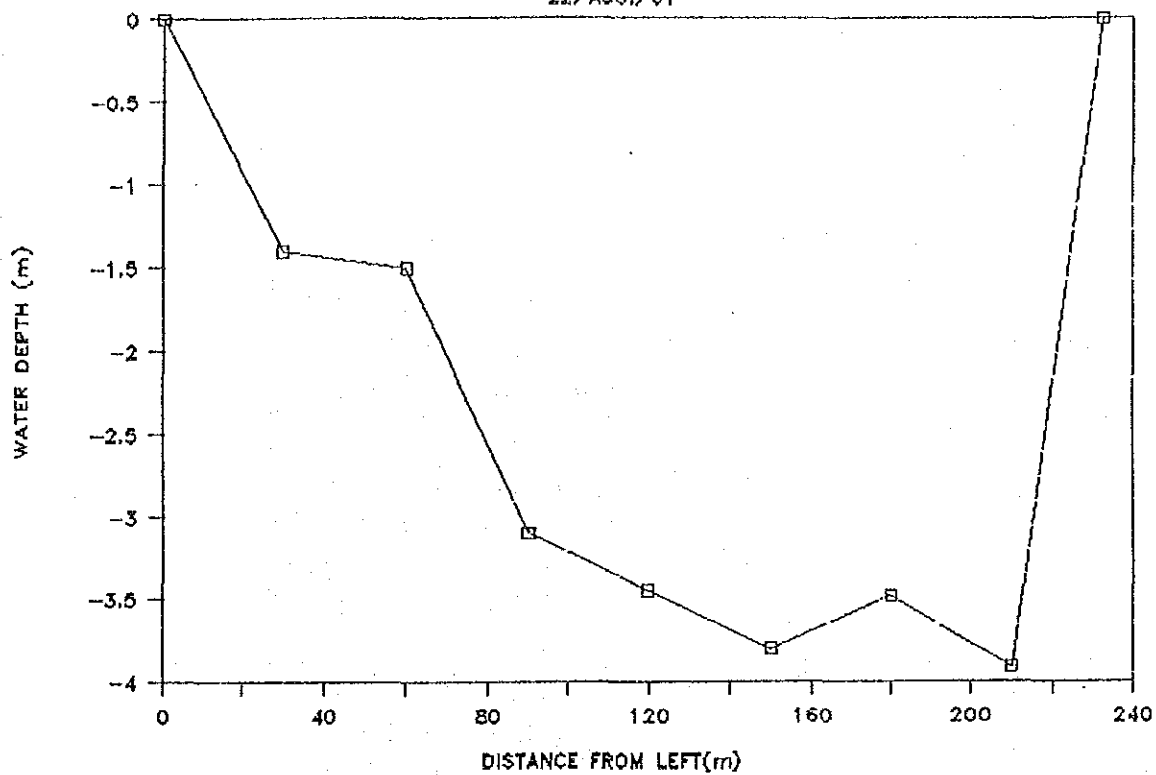
FLOW MEASUREMENT ST. : 2-400 SENANGA 22/AUG./1991

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-R
WATER DEPTH (m)	0.00	1.40	1.50	3.10	3.45	3.80	3.48	3.91	0.00
SE/WIDTH (m)	0.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	22.50
TOTAL SE/WIDTH(m)	0.00	30.00	60.00	90.00	120.00	150.00	180.00	210.00	232.50
VELOCITY.2-1(m/s)	0.00	0.30	0.45	0.45	0.55	0.55	0.50	0.35	0.00
VELOCITY.2-2(m/s)	0.00	0.30	0.45	0.45	0.55	0.55	0.50	0.35	0.00
MEAN VEL.2 (m/s)	0.00	0.30	0.45	0.45	0.55	0.55	0.50	0.35	0.00
VELOCITY.8-1(m/s)	0.00	0.10	0.30	0.30	0.45	0.35	0.35	0.15	0.00
VELOCITY.8-2(m/s)	0.00	0.10	0.30	0.30	0.45	0.35	0.35	0.15	0.00
MEAN VEL.8 (m/s)	0.00	0.10	0.30	0.30	0.45	0.35	0.35	0.15	0.00
MEAN VEL (m/s)	0.000	0.200	0.375	0.375	0.500	0.450	0.425	0.250	0.000
MEAN VEL (m/s)	0.000	0.200	0.375	0.375	0.500	0.450	0.425	0.250	0.000
L/MEAN DEPTH (m)	0.000	0.700	1.475	2.700	3.363	3.713	3.560	3.803	-
L/MEAN WIDTH (m)	0.00	30.00	15.00	15.00	15.00	15.00	15.00	15.00	-
L/SEC. AREA (m2)	0.00	21.00	22.13	40.50	50.44	55.69	53.40	57.04	-
R/MEAN DEPTH (m)	0.000	1.425	1.900	3.188	3.538	3.720	3.588	1.955	-
R/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	22.50	-
R/SEC. AREA (m2)	0.00	21.38	28.50	47.81	53.06	55.80	53.81	43.99	-
S/AREA (m2)	0.00	42.38	50.63	88.31	103.50	111.49	107.21	101.03	-
TOTAL AREA (m2)	0.0	42.4	93.0	181.3	284.8	396.3	503.5	604.5	-
S/DISCHARGE(m3/s)	0.00	8.48	18.98	33.12	51.75	50.17	45.57	25.26	-
TOTAL DIS. (m3/s)	0.00	8.48	27.46	60.58	112.33	162.50	208.06	233.32	-

WATER LEVEL (f) : 2.99 WATER LEVEL (m) : 0.91
 TOTAL DISCHARGE : 233.32 MEAN VELOCITY(m/s) : 0.39

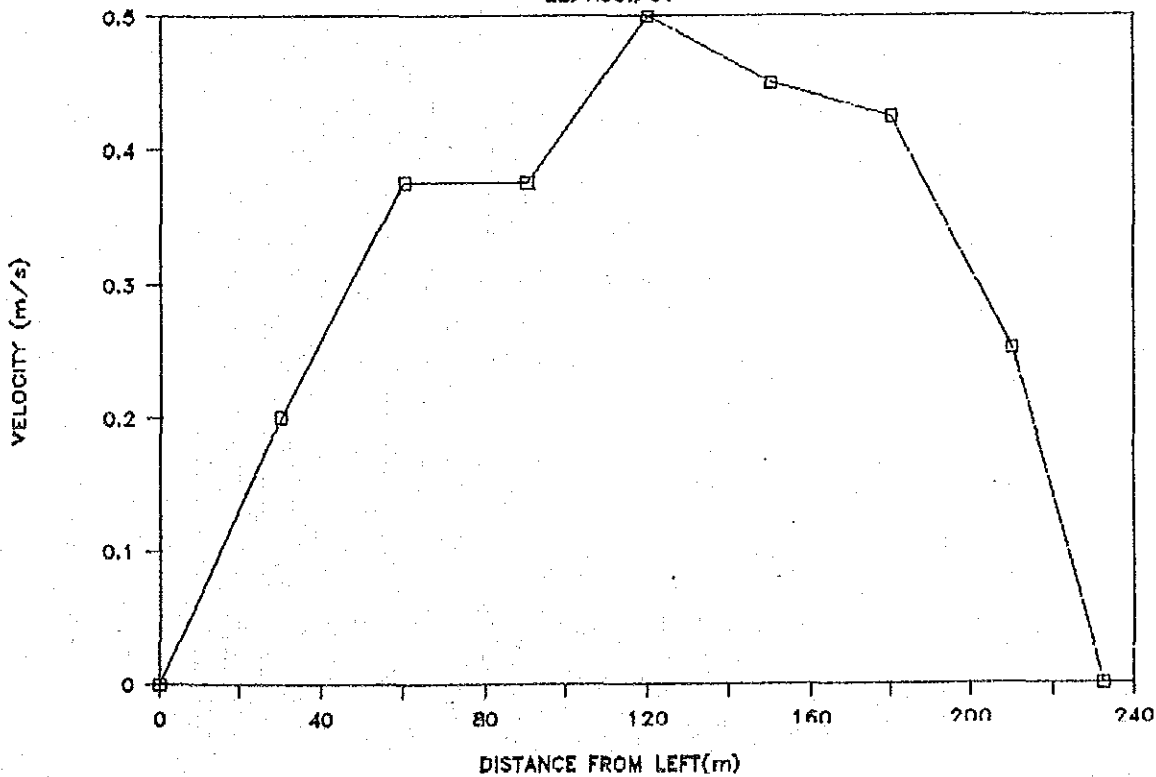
WATER DEPTH (2 400)

22/AUG./91



VELOCITY (2 400)

22/AUG./91

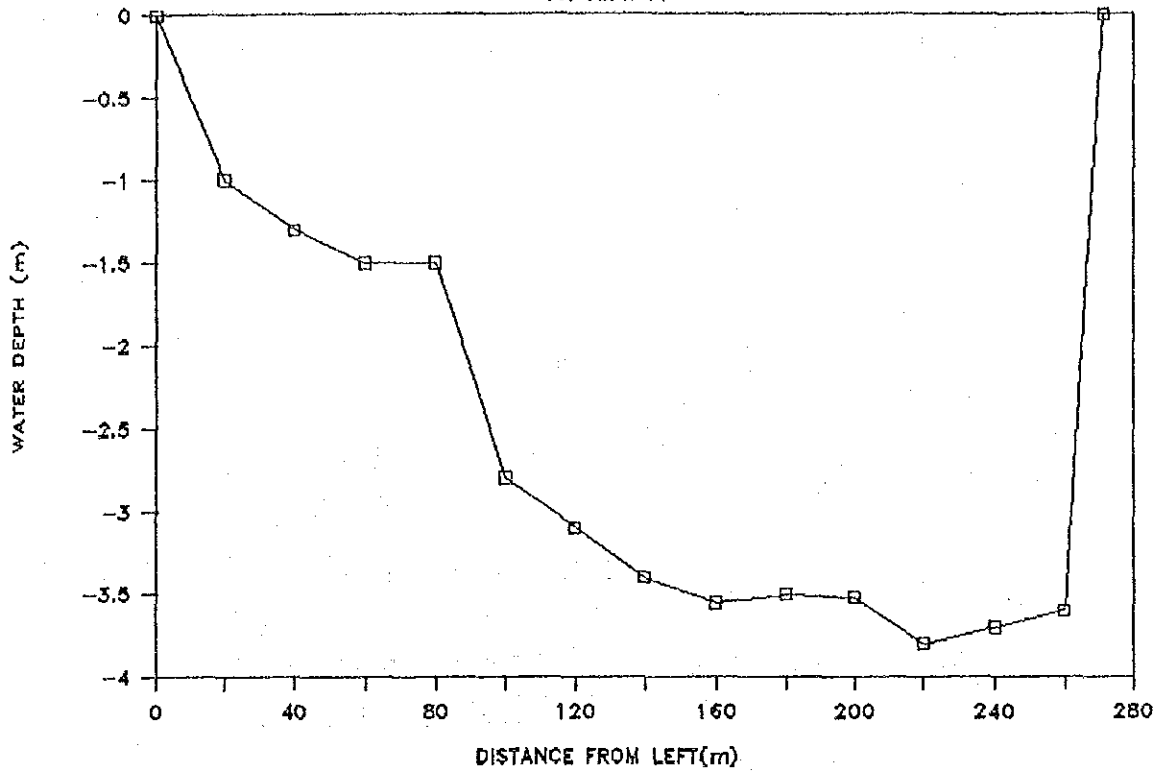


ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11	NO-12	NO-13	NO-R
WATER DEPTH (m)	0.00	1.00	1.30	1.50	1.50	2.80	3.10	3.40	3.55	3.50	3.52	3.80	3.70	3.60	0.00
SE/WIDTH (m)	0.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	11.50
TOTAL SE/WIDTH(m)	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	220.00	240.00	260.00	271.50
VELOCITY.2-1(f/s)	0.00	0.90	0.90	1.00	1.00	1.40	1.30	1.50	1.50	1.80	1.50	1.30	1.00	0.60	0.00
VELOCITY.2-2(f/s)	0.00	0.90	0.90	1.00	1.00	1.40	1.30	1.50	1.50	1.80	1.50	1.30	1.00	0.60	0.00
MEAN VEL.2 (f/s)	0.00	0.90	0.90	1.00	1.00	1.40	1.30	1.50	1.50	1.80	1.50	1.30	1.00	0.60	0.00
VELOCITY.8-1(f/s)	0.00	0.70	0.60	0.40	0.80	0.50	1.00	1.00	1.20	1.00	1.00	0.80	0.50	0.40	0.00
VELOCITY.8-2(f/s)	0.00	0.70	0.60	0.40	0.80	0.50	1.00	1.00	1.20	1.00	1.00	0.80	0.50	0.40	0.00
MEAN VEL.8 (f/s)	0.00	0.70	0.60	0.40	0.80	0.50	1.00	1.00	1.20	1.00	1.00	0.80	0.50	0.40	0.00
MEAN VEL (f/s)	0.000	0.800	0.750	0.700	0.900	0.950	1.150	1.250	1.350	1.400	1.250	1.050	0.750	0.500	0.000
MEAN VEL (m/s)	0.000	0.244	0.229	0.213	0.274	0.290	0.351	0.381	0.411	0.427	0.381	0.320	0.229	0.152	0.000
L/MEAN DEPTH (m)	0.000	0.500	1.225	1.450	1.500	2.475	3.025	3.325	3.513	3.513	3.515	3.730	3.725	3.625	
L/MEAN WIDTH (m)	0.00	20.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
R/MEAN DEPTH (m)	0.00	10.00	12.25	14.50	15.00	24.75	30.25	33.25	35.13	35.13	35.15	37.30	37.25	36.25	
R/SEC. AREA (m2)	0.000	1.075	1.350	1.500	1.825	2.875	3.175	3.438	3.538	3.505	3.590	3.775	3.675	1.800	
R/MEAN WIDTH (m)	0.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	
R/SEC. AREA (m2)	0.00	10.75	13.50	15.00	18.25	28.75	31.75	34.38	35.38	35.05	35.90	37.75	36.75	20.70	
S/AREA (m2)	0.00	20.75	25.75	29.50	33.25	53.50	62.00	67.63	70.50	70.18	71.05	75.05	74.00	56.95	
TOTAL AREA (m2)	0.0	20.8	46.5	76.0	109.3	162.8	224.8	292.4	362.9	433.1	504.1	579.2	653.2	710.1	
S/DISCHARGE(m3/s)	0.00	5.06	5.89	6.29	9.12	15.49	21.73	25.77	29.01	29.95	27.07	24.02	16.92	8.68	
TOTAL DIS. (m3/s)	0.00	5.06	10.95	17.24	26.36	41.85	63.59	89.35	118.36	148.30	175.37	199.39	215.31	224.99	

WATER LEVEL (f) : 2.55 WATER LEVEL (m) : 0.78
 TOTAL DISCHARGE : 224.99 MEAN VELOCITY(m/s) : 0.32

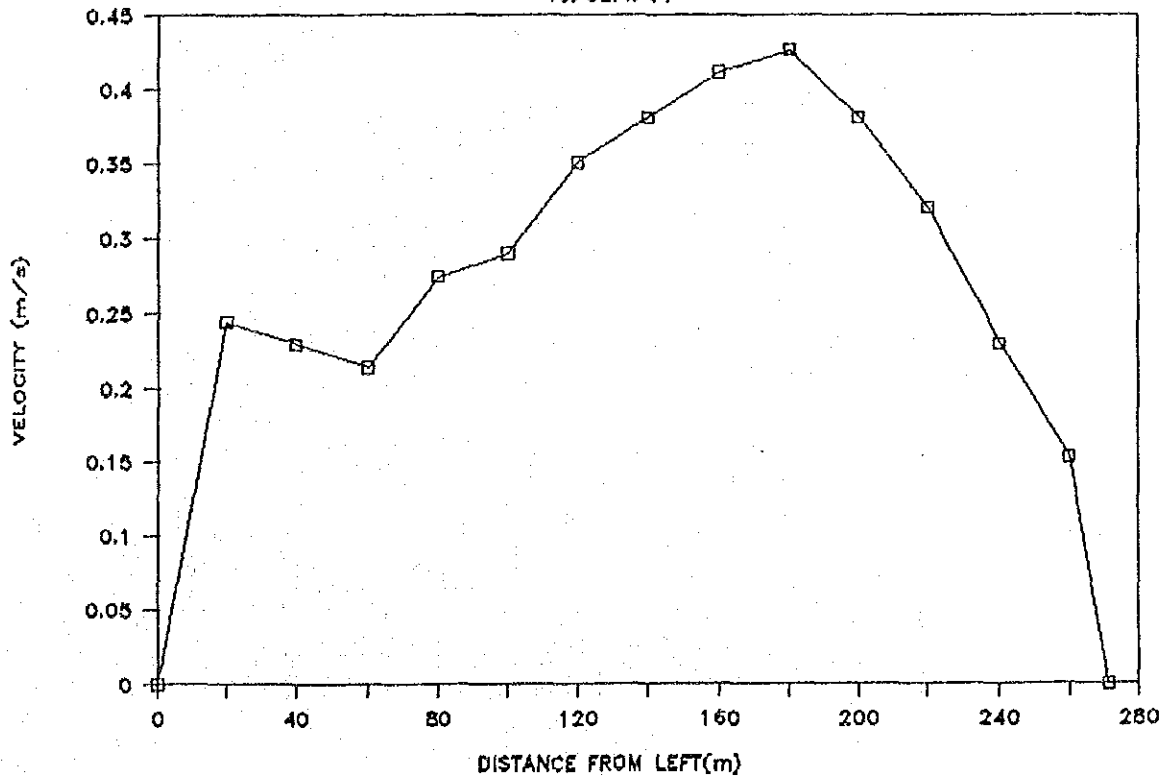
WATER DEPTH (2-400)

10/SEP./91



VELOCITY (2-400)

10/SEP./91



FLOW MEASUREMENT ST. : 2-400 SENANGA

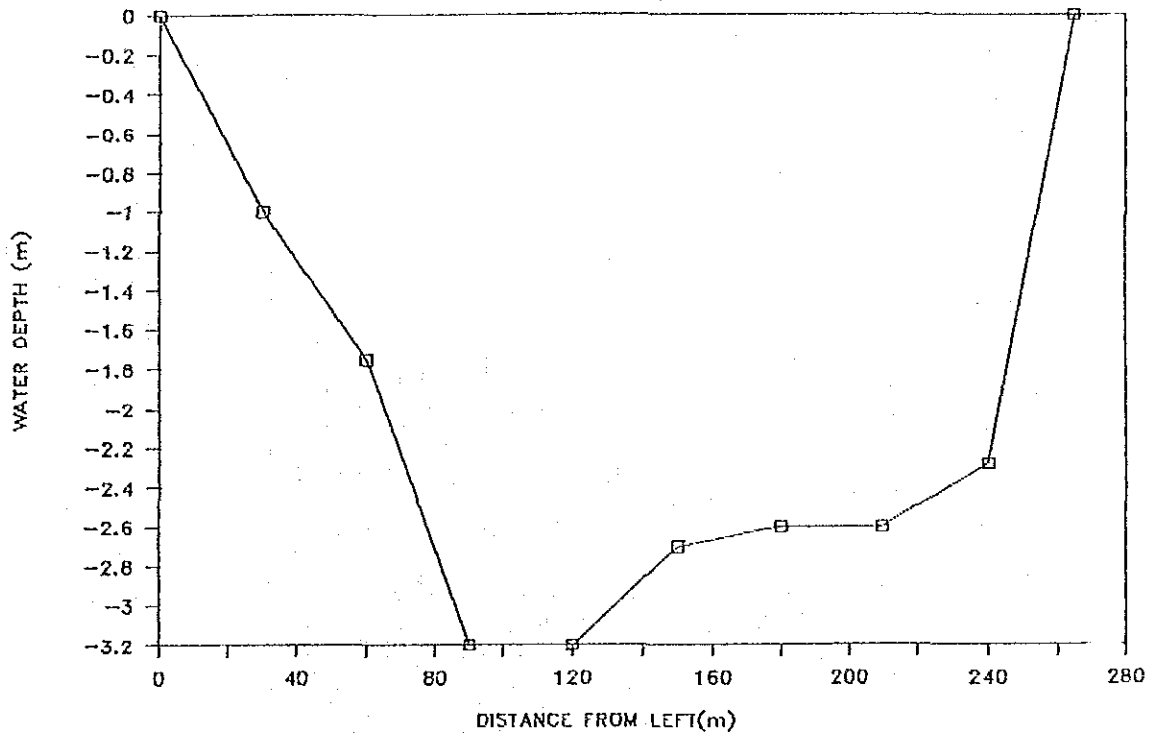
03/OCT/91

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-R
WATER DEPTH (m)	0.00	1.00	1.75	3.20	3.20	2.70	2.60	2.60	2.28	0.00
SE/WIDTH (m)	0.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	24.80
TOTAL SE/WIDTH(m)	0.00	30.00	60.00	90.00	120.00	150.00	180.00	210.00	240.00	264.80
VELOCITY.2-1(f/s)	0.00	0.80	1.20	1.90	1.90	2.00	1.85	1.50	1.40	0.00
VELOCITY.2-2(f/s)	0.00	0.80	1.20	1.95	1.90	2.00	1.85	1.50	1.40	0.00
MEAN VEL.2 (f/s)	0.00	0.80	1.20	1.93	1.90	2.00	1.85	1.50	1.40	0.00
VELOCITY.8-1(f/s)	0.00	0.60	0.90	1.40	1.20	1.55	1.00	1.00	0.95	0.00
VELOCITY.8-2(f/s)	0.00	0.60	0.90	1.40	1.20	1.55	1.00	1.10	0.80	0.00
MEAN VEL.8 (f/s)	0.00	0.60	0.90	1.40	1.20	1.55	1.00	1.05	0.88	0.00
MEAN VEL (f/s)	0.000	0.700	1.050	1.663	1.550	1.775	1.425	1.275	1.138	0.000
MEAN VEL (m/s)	0.000	0.213	0.320	0.507	0.472	0.541	0.434	0.389	0.347	0.000
L/MEAN DEPTH (m)	0.000	0.500	1.563	2.838	3.200	2.825	2.625	2.600	2.360	
L/MEAN WIDTH (m)	0.00	30.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
L/SEC. AREA (m2)	0.00	15.00	23.44	42.56	48.00	42.38	39.38	39.00	35.40	
R/MEAN DEPTH (m)	0.000	1.188	2.113	3.200	3.075	2.675	2.600	2.520	1.140	
R/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	24.80
R/SEC. AREA (m2)	0.00	17.81	31.69	48.00	46.13	40.13	39.00	37.80	28.27	
S/AREA (m2)	0.00	32.81	55.13	90.56	94.13	82.50	78.38	76.80	63.67	
TOTAL AREA (m2)	0.0	32.8	87.9	178.5	272.6	355.1	433.5	510.3	574.0	
S/DISCHARGE(m3/s)	0.00	7.00	17.64	45.89	44.47	44.63	34.04	29.85	22.08	
TOTAL DIS. (m3/s)	0.00	7.00	24.64	70.53	115.00	159.64	193.68	223.52	245.60	

WATER LEVEL (f) : 2.10 WATER LEVEL (m) : 0.64
 TOTAL DISCHARGE : 245.60 MEAN VELOCITY(m/s) : 0.43

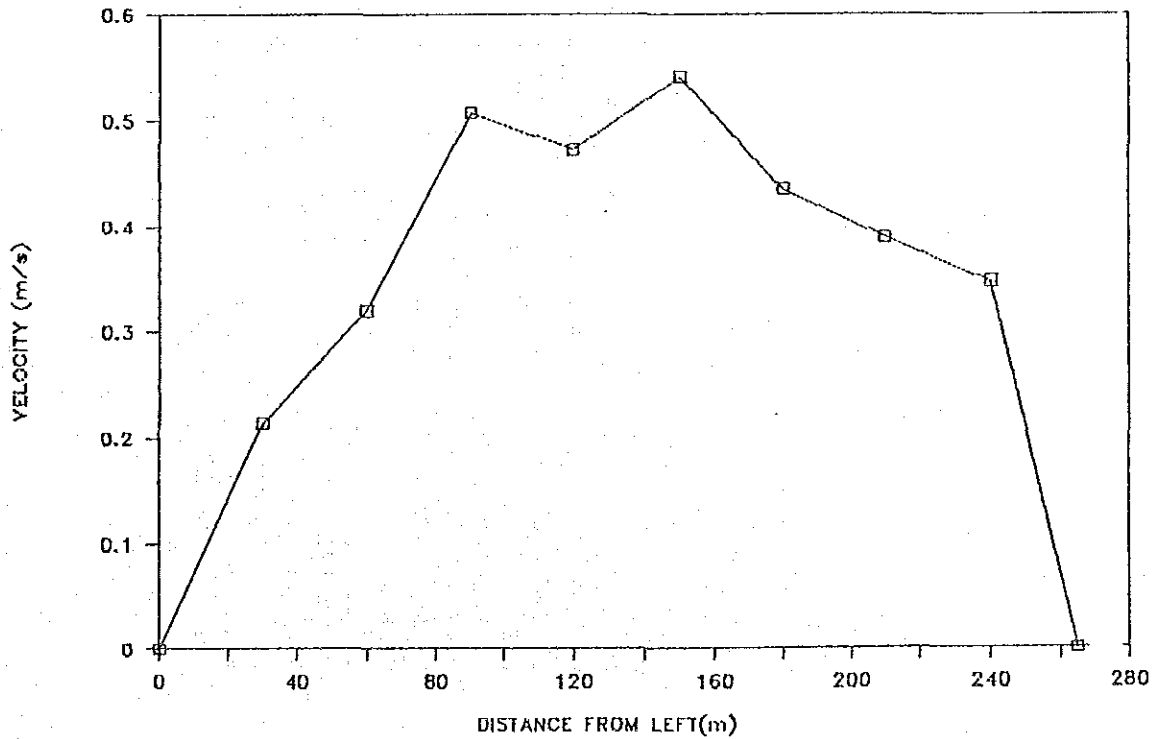
WATER DEPTH (2-400)

03/OCT/91



VELOCITY (2-400)

03/OCT/91



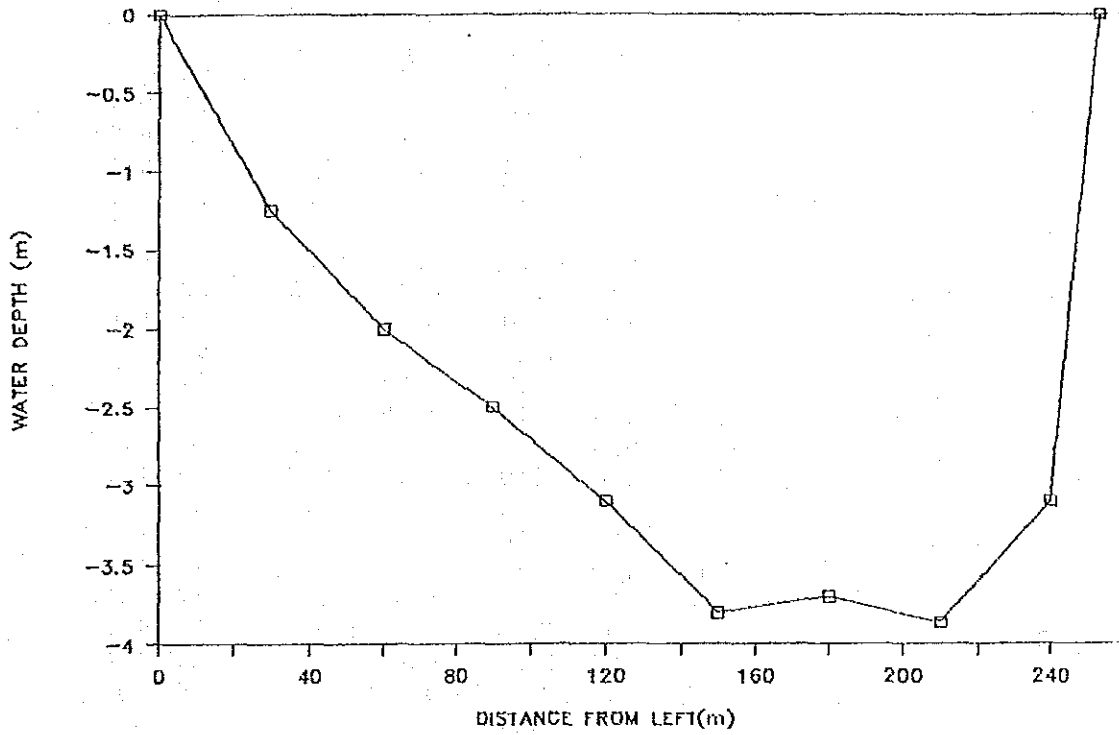
FLOW MEASUREMENT ST. : 2-400 SENANGA

15/NOV/91

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-R
WATER DEPTH (m)	0.00	1.25	2.00	2.50	3.10	3.80	3.70	3.86	3.10	0.00
SE/WIDTH (m)	0.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	13.70
TOTAL SE/WIDTH(m)	0.00	30.00	60.00	90.00	120.00	150.00	180.00	210.00	240.00	253.70
VELOCITY.2-1(f/s)	0.00	0.80	1.20	1.50	1.90	2.00	1.20	1.30	1.10	0.00
VELOCITY.2-2(f/s)	0.00	0.80	1.20	1.50	1.90	2.00	1.20	1.30	1.10	0.00
MEAN VEL.2 (f/s)	0.00	0.80	1.20	1.50	1.90	2.00	1.20	1.30	1.10	0.00
VELOCITY.8-1(f/s)	0.00	0.40	0.30	1.20	1.20	1.20	0.90	0.90	0.80	0.00
VELOCITY.8-2(f/s)	0.00	0.40	0.30	1.20	1.20	1.20	0.90	0.90	0.80	0.00
MEAN VEL.8 (f/s)	0.00	0.40	0.30	1.20	1.20	1.20	0.90	0.90	0.80	0.00
MEAN VEL (f/s)	0.000	0.600	0.750	1.350	1.550	1.600	1.050	1.100	0.950	0.000
MEAN VEL (m/s)	0.000	0.183	0.229	0.411	0.472	0.488	0.320	0.335	0.290	0.000
L/MEAN DEPTH (m)	0.000	0.625	1.813	2.375	2.950	3.625	3.725	3.820	3.290	
L/MEAN WIDTH (m)	0.00	30.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
L/SEC. AREA (m2)	0.00	18.75	27.19	35.63	44.25	54.38	55.88	57.30	49.35	
R/MEAN DEPTH (m)	0.000	1.438	2.125	2.650	3.275	3.775	3.740	3.670	1.550	
R/MEAN WIDTH (m)	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	13.70	
R/SEC. AREA (m2)	0.00	21.56	31.88	39.75	49.13	56.63	56.10	55.05	21.24	
S/AREA (m2)	0.00	40.31	59.06	75.38	93.38	111.00	111.98	112.35	70.59	
TOTAL AREA (m2)	0.0	40.3	99.4	174.8	268.1	379.1	491.1	603.5	674.0	
S/DISCHARGE(m3/s)	0.00	7.37	13.50	31.02	44.11	54.13	35.84	37.67	20.44	
TOTAL DIS. (m3/s)	0.00	7.37	20.87	51.89	96.00	150.14	185.97	223.64	244.08	
WATER LEVEL (f) :	2.61	WATER LEVEL (m) : 0.80								
TOTAL DISCHARGE :	244.08	MEAN VELOCITY(m/s) : 0.36								

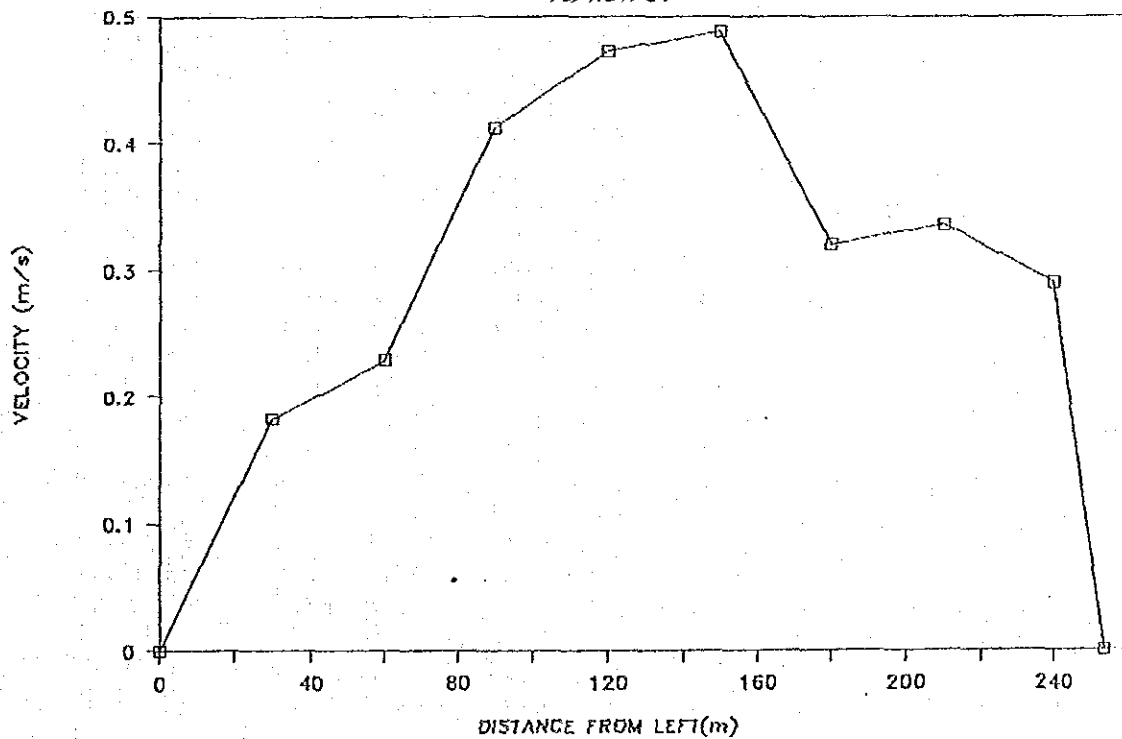
WATER DEPTH (2-400)

15/NOV/91



VELOCITY (2-400)

15/NOV/91



LIST OF FLOW MEASUREMENT

ST.: 4-050 RAGLAM FARM

NO.	DATE	-----[Feet - Second]-----				+++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
1	24-Sep-59	1.50	53	131	0.40	0.46	1.5	12	0.12
2	25-Sep-59	1.50	39	293	0.14	0.46	1.1	27	0.04
3	07-Oct-59	1.16	47	129	0.36	0.35	1.3	12	0.11
4	07-Oct-59	1.48	10	289	0.14	0.45	0.3	27	0.04
5	28-Oct-59	1.31	37	114	0.33	0.40	1.1	11	0.10
6	10-Nov-59	1.32	39	115	0.34	0.40	1.1	11	0.10
7	07-Dec-59	1.49	55	135	0.40	0.45	1.5	13	0.12
8	21-Dec-59	2.03	101	349	0.29	0.62	2.9	32	0.09
9	04-Jan-60	3.30	232	547	0.42	1.01	6.6	51	0.13
10	03-Feb-60	4.36	383	692	0.55	1.33	10.8	64	0.17
11	26-May-60	5.20	607	833	0.73	1.58	17.2	77	0.22
12	13-Jun-60	4.15	361	674	0.53	1.26	10.2	63	0.16
13	14-Jul-60	3.18	213	526	0.40	0.97	6.0	49	0.12
14	25-Jul-60	2.96	205	480	0.43	0.90	5.8	45	0.13
15	22-Aug-60	2.30	108	388	0.28	0.70	3.1	36	0.09
16	11-Oct-60	1.36	43	130	0.33	0.41	1.2	12	0.10
17	16-Dec-60	1.44	39	128	0.30	0.44	1.1	12	0.09
18	20-Dec-60	2.36	132	202	0.66	0.72	3.7	19	0.20
19	23-Dec-60	3.31	281	267	1.05	1.01	8.0	25	0.32
20	04-Jan-61	5.97	806	963	0.84	1.82	22.8	89	0.26
21	18-Jan-61	5.94	753	984	0.77	1.81	21.3	91	0.23
22	25-Jan-61	6.37	890	1050	0.85	1.94	25.2	98	0.26
23	30-Jan-61	7.94	1290	1330	0.97	2.42	36.5	124	0.30
24	06-Feb-61	9.66	2010	1680	1.21	2.94	56.9	156	0.37
25	02-May-61	10.97	2540	1880	1.35	3.34	71.9	175	0.41
26	10-May-61	9.78	2170	1660	1.31	2.98	61.4	154	0.40
27	16-May-61	9.16	1920	1540	1.24	2.79	54.4	143	0.38
28	25-May-61	7.84	1480	1320	1.13	2.39	41.9	123	0.34
29	30-May-61	7.18	1240	1180	1.05	2.19	35.1	110	0.32
30	05-Jun-61	6.50	975	1070	0.91	1.98	27.6	99	0.28
31	12-Jun-61	5.86	803	967	0.83	1.79	22.7	90	0.25
32	19-Jun-61	5.38	680	881	0.77	1.64	19.3	82	0.23
33	27-Jun-61	4.91	589	798	0.74	1.50	16.7	74	0.23
34	04-Jul-61	4.57	524	739	0.71	1.39	14.8	69	0.22
35	12-Jul-61	4.28	456	694	0.66	1.30	12.9	64	0.20
36	18-Jul-61	4.08	422	656	0.64	1.24	11.9	61	0.20
37	26-Jul-61	3.84	372	614	0.61	1.17	10.5	57	0.19
38	01-Aug-61	3.68	336	585	0.57	1.12	9.5	54	0.17
39	11-Aug-61	3.30	293	254	1.15	1.01	8.3	24	0.35
40	21-Aug-61	3.04	237	240	0.99	0.93	6.7	22	0.30
41	28-Aug-61	2.86	219	226	0.97	0.87	6.2	21	0.30
42	11-Sep-61	2.37	137	204	0.67	0.72	3.9	19	0.20
43	25-Sep-61	1.89	105	171	0.61	0.58	3.0	16	0.19
44	03-Oct-61	1.70	77	155	0.56	0.52	2.2	14	0.17
45	09-Oct-61	1.59	61	146	0.42	0.48	1.7	14	0.13
46	16-Oct-61	1.49	56	143	0.39	0.45	1.6	13	0.12
47	30-Oct-61	N/A	47	137	0.34	0.49	N/A	13	0.10
48	07-Nov-61	1.62	67	154	0.43	0.49	1.9	14	0.13
49	14-Nov-61	2.20	122	191	0.64	0.67	3.5	18	0.20
50	16-Nov-61	2.45	153	209	0.73	0.75	4.3	19	0.22

LIST OF FLOW MEASUREMENT

ST.: 4-050 RAGLAM FARM

NO.	DATE	-----[Feet - Second]-----				+++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
51	20-Nov-61	3.28	296	267	1.11	1.00	8.4	25	0.34
52	27-Nov-61	3.05	202	507	0.40	0.93	5.7	47	0.12
53	18-Dec-61	4.86	582	747	0.78	1.48	16.5	69	0.24
54	27-Dec-61	6.00	849	956	0.89	1.83	24.0	89	0.27
55	10-Jan-62	9.80	2000	1620	1.24	2.99	56.6	151	0.38
56	15-Jan-62	10.45	2210	1720	1.28	3.19	62.6	160	0.39
57	22-Jan-62	10.89	2260	1830	1.23	3.32	64.0	170	0.37
58	13-Jun-62	8.54	1880	1420	1.32	2.60	53.2	132	0.40
59	22-Jun-62	7.66	1500	1250	1.20	2.33	42.5	116	0.37
60	28-Jan-64	8.88	1930	1510	1.28	2.71	54.7	140	0.39
61	18-Feb-64	11.02	2620	1870	1.40	3.36	74.2	174	0.43
62	28-Feb-64	12.00	3030	2070	1.46	3.66	85.8	192	0.45
63	16-Mar-64	12.82	3550	2340	1.52	3.91	100.5	217	0.46
64	03-Apr-64	11.70	3080	2070	1.48	3.57	87.2	192	0.45
65	08-Apr-64	10.94	2920	1920	1.52	3.33	82.7	178	0.46
66	24-Apr-64	8.30	1790	1380	1.30	2.53	50.7	128	0.40
67	30-Apr-64	7.38	1500	1230	1.23	2.25	42.5	114	0.37
68	08-May-64	6.22	1120	1040	1.08	1.90	31.7	97	0.33
69	28-May-64	4.72	625	757	0.83	1.44	17.7	70	0.25
70	08-Jun-64	4.18	502	686	0.73	1.27	14.2	64	0.22
71	29-Jun-64	3.80	403	624	0.65	1.16	11.4	58	0.20
72	28-Jul-64	3.40	87	563	0.16	1.04	2.5	52	0.05
73	28-Aug-64	2.71	230	454	0.51	0.83	6.5	42	0.16
74	03-Dec-71	7.02	1226	1122	1.09	2.14	34.7	104	0.33
75	26-Jan-72	9.14	1839	1322	1.40	2.79	52.1	123	0.43
76	20-Apr-72	14.41	3726	2416	1.54	4.39	105.5	224	0.47
77	24-Nov-72	2.35	191	367	0.52	0.72	5.4	34	0.16
78	23-Dec-72	2.95	234	439	0.53	0.90	6.6	41	0.16
79	19-Jan-73	4.65	596	788	0.76	1.42	16.9	73	0.23
80	09-Feb-73	5.04	627	756	0.83	1.54	17.8	70	0.25
81	15-Mar-73	6.69	1124	1010	1.11	2.04	31.8	94	0.34
82	06-Apr-73	6.13	468	558	0.84	1.87	13.3	52	0.26
83	28-Apr-73	5.40	776	787	0.99	1.65	22.0	73	0.30
84	10-May-73	4.38	502	661	0.76	1.34	14.2	61	0.23
85	07-Jun-73	3.00	266	486	0.55	0.91	7.5	45	0.17
86	11-Jul-73	2.37	152	363	0.42	0.72	4.3	34	0.13
87	12-Jul-73	2.35	144	369	0.39	0.72	4.1	34	0.12
88	27-Jul-73	2.21	133	342	0.39	0.67	3.8	32	0.12
89	06-Sep-73	1.70	88	250	0.33	0.52	2.5	23	0.10
90	27-Sep-73	1.65	78	278	0.28	0.50	2.2	26	0.09
91	28-Sep-73	1.63	77	286	0.27	0.50	2.2	27	0.08
92	08-Nov-73	1.64	59	268	0.22	0.50	1.7	25	0.07
93	13-Dec-73	1.92	140	365	0.38	0.59	4.0	34	0.12
94	11-Jan-74	4.30	475	682	0.70	1.31	13.5	63	0.21
95	14-Feb-74	5.60	568	687	0.83	1.71	16.1	64	0.25
96	26-Feb-74	7.03	794	773	1.03	2.14	22.5	72	0.31
97	20-Mar-74	9.40	1507	1300	1.16	2.87	42.7	121	0.35
98	16-May-74	6.34	1257	1155	1.09	1.93	35.6	107	0.33
99	29-Nov-74	1.69	29	95	0.31	0.52	0.8	9	0.09
100	26-Feb-75	6.29	936	925	1.01	1.92	26.5	86	0.31

LIST OF FLOW MEASUREMENT

ST.: 4-050 RAGLAM FARM

NO.	DATE	-----[Feet - Second]-----				+++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
101	26-Aug-75	3.01	212	360	0.59	0.92	6.0	33	0.18
102	27-Oct-75	1.50	74	367	0.20	0.46	2.1	34	0.06
103	07-Jan-76	7.79	1116	1067	1.05	2.37	31.6	99	0.32
104	27-Apr-76	16.73	4480	3870	1.16	5.10	126.9	360	0.35
105	07-Dec-76	2.01	128	264	0.48	0.61	3.6	25	0.15
106	07-Mar-77	13.85	3170	2480	1.28	4.22	89.8	230	0.39
107	04-Apr-77	16.80	5370	3573	1.50	5.12	152.1	332	0.46
108	13-Jul-77	4.56	479	530	0.90	1.39	13.6	49	0.27
109	22-Nov-77	1.50	88	291	0.33	0.46	2.5	27	0.10
110	24-May-78	13.45	3334	2004	1.66	4.10	94.4	186	0.51
111	04-Jul-80	6.98	815	814	1.00	2.13	23.1	76	0.30
112	15-Oct-80	2.60	215	394	0.55	0.79	6.1	37	0.17
113	10-Nov-80	2.53	245	343	0.71	0.77	6.9	32	0.22
114	17-Dec-80	3.55	446	618	0.72	1.08	12.6	57	0.22
115	17-Apr-81	14.01	3502	2348	1.49	4.27	99.2	218	0.45
116	08-May-81	9.32	1930	1578	1.22	2.84	54.7	147	0.37
117	27-Jun-81	5.50	655	167	0.84	1.68	18.5	16	0.26
118	21-Aug-81	3.58	625	812	0.77	1.09	17.7	75	0.23
119	21-Feb-82	11.10	2880	1852	1.56	3.38	81.6	172	0.48
120	21-May-82	6.52	1079	1112	0.97	1.99	30.6	103	0.30
121	13-Oct-82	1.62	152	360	0.42	0.49	4.3	33	0.13
122	11-Apr-83	9.32	2037	1507	1.35	2.84	57.7	140	0.41
123	10-Oct-83	1.43	120	323	0.37	0.44	3.4	30	0.11
124	07-May-84	5.30	899	1045	0.82	1.62	25.5	97	0.25
125	08-Aug-84	2.41	154	494	0.36	0.73	4.4	46	0.11
126	24-Apr-87	9.79	1925	1536	1.25	2.98	54.5	143	0.38
127	23-Sep-89	1.89	86	244	0.35	0.58	2.4	23	0.11
128	17-Jul-90	1.89	224	488	0.46	0.87	6.4	45	0.14
129	21-Aug-90	2.85	127	431	0.30	0.67	3.6	40	0.09
130	13-Oct-90	2.20	47	284	0.16	0.43	1.3	26	0.05
131	06-Nov-90	1.41	44	269	0.16	0.38	1.3	25	0.05
132	24-Dec-90	1.25	136	344	0.39	0.55	3.8	32	0.12
133	14-Jan-91	1.80	485	704	0.69	1.26	13.7	65	0.21
134	14-Feb-91	4.13	2144	1766	1.21	3.19	60.7	164	0.37
135	08-Mar-91	10.47	1989	1732	1.15	3.20	56.3	161	0.35
136	27-Aug-91	10.50	128	326	0.39	0.70	3.6	30	0.12
137	16-Sep-91	2.30	148	346	0.43	0.55	4.2	32	0.13
138	18-Oct-91	1.80	45	273	0.16	0.45	1.3	25	0.05
139	25-Nov-91	1.48	71	270	0.26	0.45	2.0	25	0.08

[Note] H:Water Level, Q:Discharge, A:Discharge Area, V:Velocity

FLOW MEASUREMENT ST. : 4-050 RAGLAM FARM

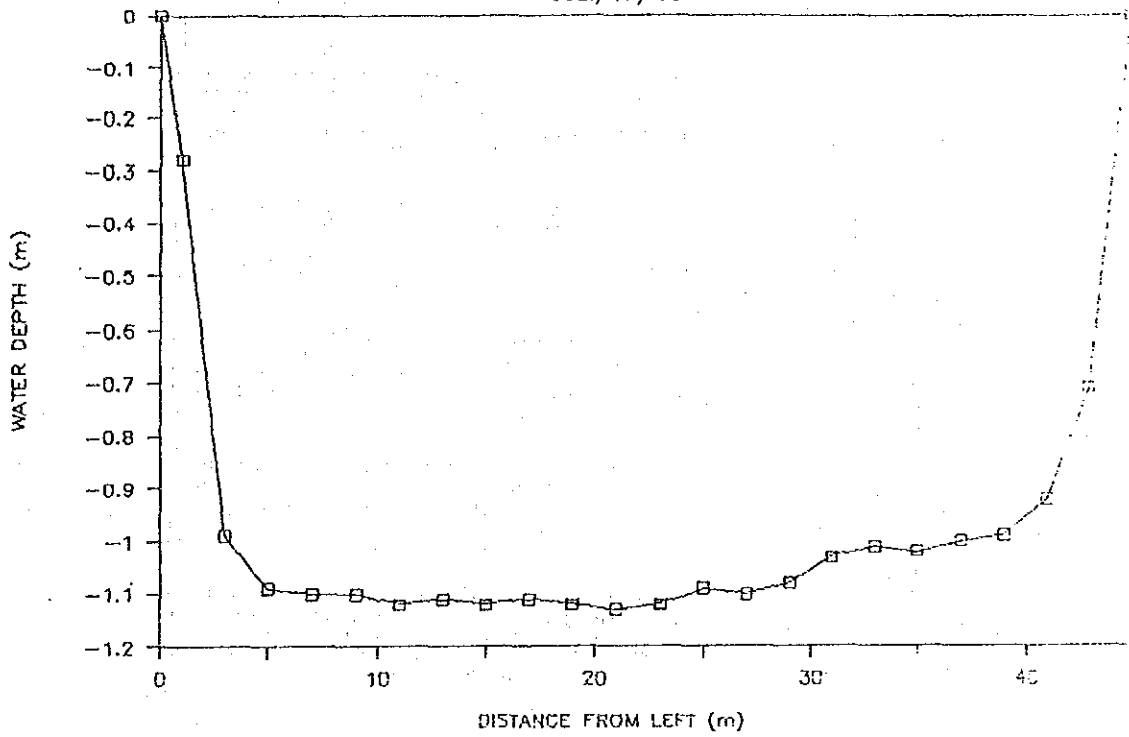
JUL./17/'90

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11
WATER DEPTH (m)	0.00	0.99	1.09	1.10	1.10	1.12	1.11	1.12	1.11	1.12	1.13
SE/WIDTH (m)	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	3.00	5.00	7.00	9.00	11.00	13.00	15.00	17.00	19.00	21.00
VELOCITY.2-1(f/s)	0.00	0.00	0.50	0.50	0.55	0.50	0.50	0.65	0.70	0.70	0.70
VELOCITY.2-2(f/s)	0.00	0.00	0.50	0.50	0.55	0.50	0.50	0.65	0.70	0.70	0.70
MEAN VEL.2 (f/s)	0.00	0.00	0.50	0.50	0.55	0.50	0.50	0.65	0.70	0.70	0.70
VELOCITY.8-1(f/s)	0.00	0.00	0.40	0.40	0.45	0.45	0.45	0.45	0.50	0.51	0.50
VELOCITY.8-2(f/s)	0.00	0.00	0.40	0.40	0.45	0.45	0.45	0.45	0.50	0.51	0.50
MEAN VEL.8 (f/s)	0.00	0.00	0.40	0.40	0.45	0.45	0.45	0.45	0.50	0.51	0.50
MEAN VEL (f/s)	0.00	0.00	0.45	0.45	0.50	0.48	0.48	0.55	0.60	0.61	0.60
MEAN VEL (m/s)	0.00	0.000	0.137	0.137	0.152	0.145	0.145	0.168	0.183	0.184	0.183
L/MEAN DEPTH (m)	0.000	0.140	0.813	1.098	1.100	1.115	1.113	1.118	1.113	1.118	1.128
L/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L/SEC. AREA (m2)	0.00	0.14	0.91	1.10	1.10	1.12	1.11	1.12	1.11	1.12	1.13
R/MEAN DEPTH (m)	0.000	0.458	1.015	1.100	1.105	1.118	1.113	1.118	1.113	1.123	1.128
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
R/SEC. AREA (m2)	0.00	0.46	1.02	1.10	1.11	1.12	1.11	1.12	1.11	1.12	1.13
S/AREA (m2)	0.00	0.60	1.83	2.20	2.21	2.23	2.23	2.24	2.23	2.24	2.26
TOTAL AREA (m2)	0.0	0.6	2.4	6.8	9.0	11.2	13.4	15.7	17.9	20.1	22.4
S/DISCHARGE(m3/s)	0.00	0.00	0.30	0.30	0.34	0.32	0.32	0.37	0.41	0.41	0.41
TOTAL DIS. (m3/s)	0.00	0.00	0.30	0.60	0.93	1.26	1.58	1.95	2.36	2.77	3.19
WATER LEVEL (ft)											
TOTAL DISCHARGE											
WATER LEVEL (m)											
MEAN VELOCITY(m/s)											

FLOW MEASUREMENT ST. : 4-050 RAGLAM FARM		JUL./17/'90											
ITEMS		NO-12	NO-13	NO-14	NO-15	NO-16	NO-17	NO-18	NO-19	NO-20	NO-21	NO-22	NO-R
WATER DEPTH	(m)	1.12	1.09	1.10	1.08	1.03	1.01	1.02	1.00	0.99	0.92	0.71	0.00
SE/WIDTH	(m)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH	(m)	23.00	25.00	27.00	29.00	31.00	33.00	35.00	37.00	39.00	41.00	43.00	45.00
VELOCITY.2-1	(f/s)	0.75	0.82	0.80	0.75	0.62	0.60	0.50	0.40	0.40	0.15	0.00	0.00
VELOCITY.2-2	(f/s)	0.75	0.82	0.80	0.75	0.62	0.60	0.50	0.40	0.40	0.15	0.00	0.00
MEAN VEL.2	(f/s)	0.75	0.82	0.80	0.75	0.62	0.60	0.50	0.40	0.40	0.15	0.00	0.00
VELOCITY.8-1	(f/s)	0.55	0.55	0.52	0.50	0.50	0.45	0.35	0.35	0.20	0.10	0.00	0.00
VELOCITY.8-2	(f/s)	0.55	0.55	0.52	0.50	0.50	0.45	0.35	0.35	0.20	0.10	0.00	0.00
MEAN VEL.8	(f/s)	0.55	0.55	0.52	0.50	0.50	0.45	0.35	0.35	0.20	0.10	0.00	0.00
MEAN VEL	(f/s)	0.65	0.69	0.66	0.63	0.56	0.53	0.43	0.38	0.30	0.13	0.00	0.00
MEAN VEL	(m/s)	0.198	0.209	0.201	0.191	0.171	0.160	0.130	0.114	0.091	0.038	0.000	0.000
L/MEAN DEPTH	(m)	1.123	1.098	1.098	1.085	1.043	1.015	1.019	1.005	0.993	0.938	0.763	-
L/MEAN WIDTH	(m)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
L/SEC. AREA	(m2)	1.12	1.10	1.10	1.09	1.04	1.02	1.02	1.01	0.99	0.94	0.76	-
R/MEAN DEPTH	(m)	1.113	1.093	1.095	1.068	1.025	1.013	1.015	0.998	0.973	0.868	0.355	-
R/MEAN WIDTH	(m)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	-
R/SEC. AREA	(m2)	1.11	1.09	1.10	1.07	1.03	1.01	1.02	1.00	0.97	0.87	0.71	-
S/AREA	(m2)	2.24	2.19	2.19	2.15	2.07	2.03	2.03	2.00	1.97	1.81	1.47	-
TOTAL AREA	(m2)	24.6	26.8	29.0	31.2	33.2	35.3	37.3	39.3	41.3	43.1	44.5	-
S/DISCHARGE	(m3/s)	0.44	0.45	0.44	0.41	0.35	0.32	0.26	0.23	0.18	0.07	0.00	-
TOTAL DIS.	(m3/s)	3.63	4.09	4.53	4.94	5.29	5.61	5.88	6.11	6.29	6.35	6.35	-
WATER LEVEL (f) :		2.86											
WATER LEVEL (m) :		0.87											
TOTAL DISCHARGE :		6.35											
MEAN VELOCITY(m/s) :		0.14											

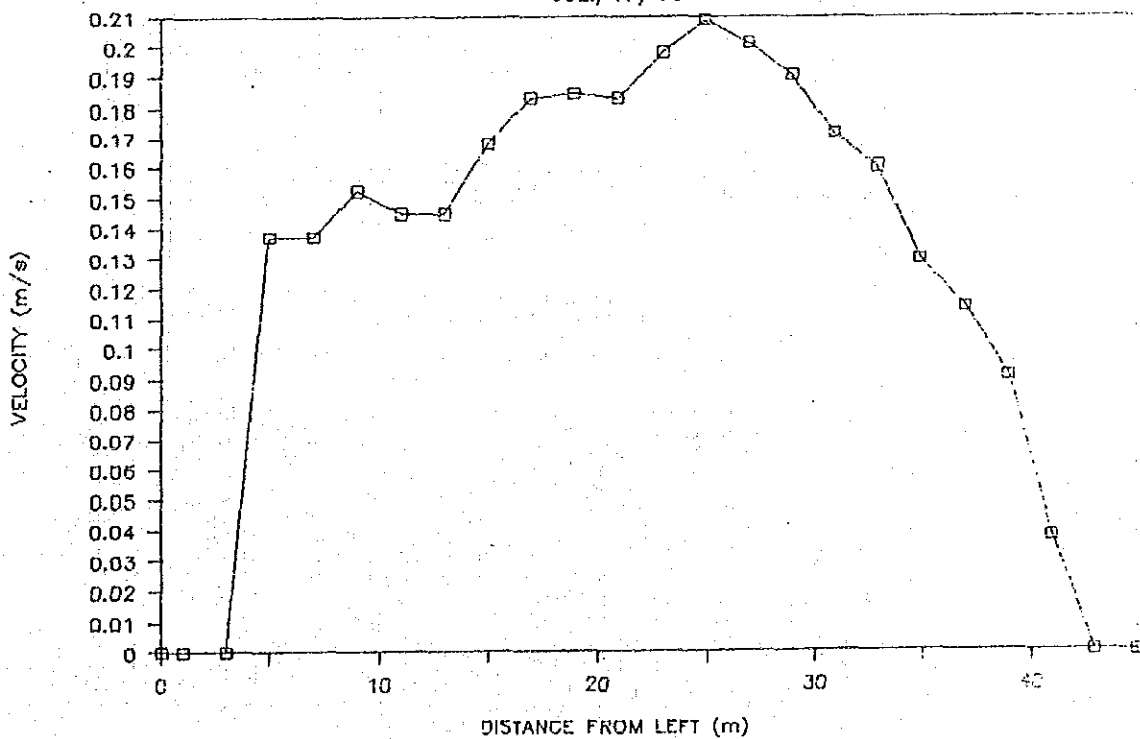
WATER DEPTH (4-050)

JUL./17/'90



VELOCITY (4-050)

JUL./17/'90



FLOW MEASUREMENT ST. : 4-050 RAGLAM FARM		AUG./21/90										
ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11
WATER DEPTH (m)	0.00	0.60	0.82	0.87	0.90	0.87	0.91	0.90	0.90	0.89	0.89	0.88
SF/WIDTH (m)	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
VELOCITY.2-1(f/s)	0.00	0.00	0.18	0.20	0.30	0.30	0.35	0.35	0.32	0.39	0.38	0.40
VELOCITY.2-2(f/s)	0.00	0.00	0.18	0.20	0.30	0.30	0.35	0.35	0.32	0.39	0.38	0.40
MEAN VEL.2 (f/s)	0.00	0.00	0.18	0.20	0.30	0.30	0.35	0.35	0.32	0.39	0.38	0.40
VELOCITY.8-1(f/s)	0.00	0.00	0.10	0.18	0.25	0.28	0.30	0.30	0.25	0.29	0.29	0.32
VELOCITY.8-2(f/s)	0.00	0.00	0.10	0.18	0.25	0.28	0.30	0.30	0.25	0.29	0.29	0.32
MEAN VEL.8 (f/s)	0.00	0.00	0.10	0.18	0.25	0.28	0.30	0.30	0.25	0.29	0.29	0.32
MEAN VEL (f/s)	0.00	0.00	0.14	0.19	0.28	0.29	0.33	0.33	0.29	0.34	0.34	0.36
MEAN VEL (m/s)	0.00	0.000	0.043	0.058	0.084	0.088	0.099	0.099	0.087	0.104	0.102	0.110
L/MEAN DEPTH (m)	0.000	0.300	0.765	0.858	0.893	0.878	0.900	0.903	0.900	0.893	0.990	0.883
L/MEAN WIDTH (m)	0.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L/SI. AREA (m2)	0.00	0.60	0.77	0.86	0.89	0.88	0.90	0.90	0.90	0.89	0.89	0.88
R/MEAN DEPTH (m)	0.000	0.655	0.833	0.878	0.893	0.880	0.908	0.900	0.898	0.890	0.888	0.883
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
R/SEC. AREA (m2)	0.00	0.66	0.83	0.88	0.89	0.88	0.91	0.90	0.90	0.89	0.89	0.88
S/AREA (m2)	0.00	1.26	1.60	1.74	1.79	1.76	1.81	1.80	1.80	1.78	1.78	1.77
TOTAL AREA (m2)	0.0	1.3	2.9	4.5	6.4	8.1	9.9	11.7	13.5	15.3	17.1	18.9
S/DISCHARGE(m3/s)	0.00	0.00	0.07	0.10	0.15	0.16	0.18	0.18	0.15	0.18	0.18	0.19
TOTAL DIS. (m3/s)	0.00	0.00	0.07	0.17	0.32	0.47	0.65	0.83	0.99	1.17	1.35	1.55
WATER LEVEL (f) :	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL DISCHARGE :	-	-	-	-	-	-	-	-	-	-	-	-
WATER LEVEL (m)	-	-	-	-	-	-	-	-	-	-	-	-
MEAN VELOCITY(m/s)	-	-	-	-	-	-	-	-	-	-	-	-

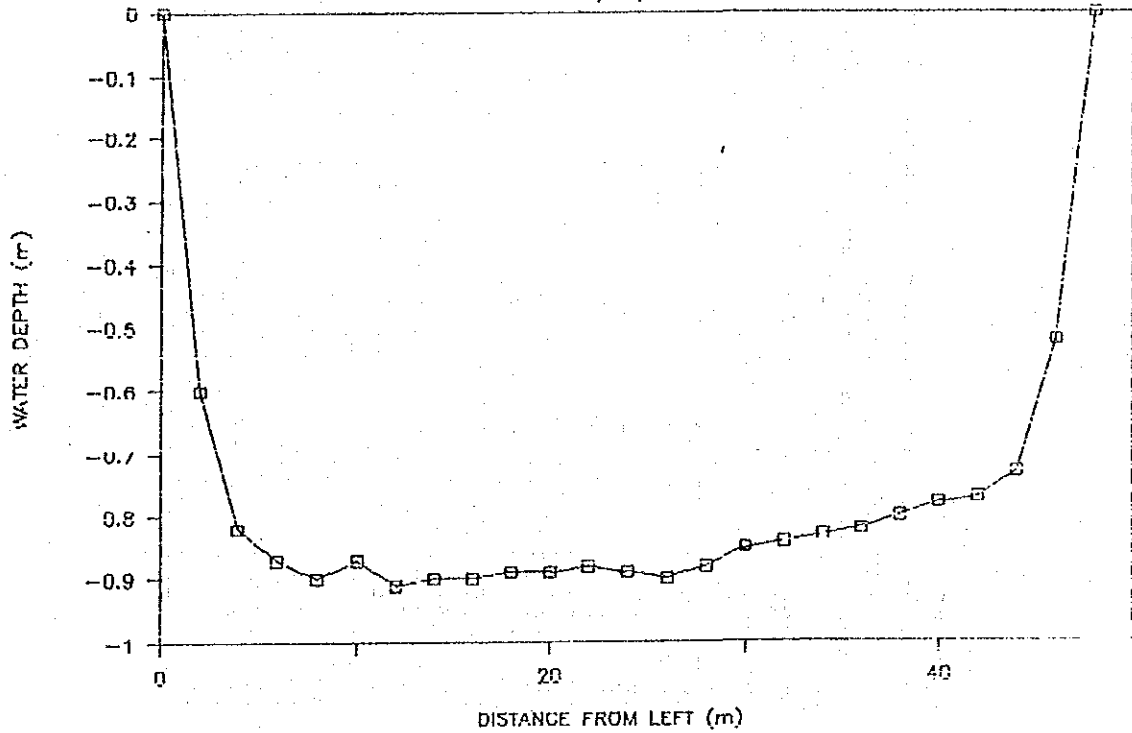
FLOW MEASUREMENT ST. : 4-050 RAGLAM FARM AUG./21/'90

ITEMS	NO-12	NO-13	NO-14	NO-15	NO-16	NO-17	NO-18	NO-19	NO-20	NO-21	NO-22	NO-23	NO-R
WATER DEPTH (m)	0.89	0.90	0.88	0.85	0.84	0.83	0.82	0.80	0.78	0.77	0.73	0.52	0.00
SE/WIDTH (m)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	24.00	26.00	28.00	30.00	32.00	34.00	36.00	38.00	40.00	42.00	44.00	48.00	48.00
VELOCITY.2-1(f/s)	0.58	0.58	0.54	0.50	0.59	0.50	0.45	0.50	0.30	0.15	0.15	0.00	0.00
VELOCITY.2-2(f/s)	0.56	0.56	0.54	0.50	0.59	0.50	0.45	0.50	0.30	0.15	0.15	0.00	0.00
MEAN VEL.2 (f/s)	0.56	0.56	0.54	0.50	0.59	0.50	0.45	0.50	0.30	0.15	0.15	0.00	0.00
VELOCITY.8-1(f/s)	0.40	0.39	0.32	0.30	0.25	0.35	0.32	0.32	0.22	0.12	0.12	0.00	0.00
VELOCITY.8-2(f/s)	0.40	0.39	0.32	0.30	0.25	0.35	0.32	0.32	0.22	0.12	0.12	0.00	0.00
MEAN VEL.8 (f/s)	0.40	0.39	0.32	0.30	0.25	0.35	0.32	0.32	0.22	0.12	0.12	0.00	0.00
MEAN VEL (f/s)	0.48	0.48	0.43	0.40	0.42	0.43	0.39	0.41	0.26	0.14	0.14	0.00	0.00
M/MEAN VEL (m/s)	0.146	0.145	0.131	0.122	0.128	0.130	0.117	0.125	0.079	0.041	0.041	0.000	0.000
L/MEAN DEPTH (m)	0.888	0.898	0.885	0.858	0.843	0.833	0.823	0.805	0.785	0.773	0.740	0.573	-
L/MEAN WIDTH (m)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
L/SEC. AREA (m2)	0.89	0.90	0.89	0.86	0.84	0.83	0.82	0.81	0.79	0.77	0.74	0.57	-
R/MEAN DEPTH (m)	0.893	0.895	0.873	0.848	0.838	0.828	0.815	0.795	0.778	0.760	0.625	0.260	-
R/MEAN WIDTH (m)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	2.00	-
R/SEC. AREA (m2)	0.89	0.90	0.87	0.85	0.84	0.83	0.82	0.80	0.78	0.76	1.25	0.52	-
S/AREA (m2)	1.78	1.79	1.76	1.71	1.68	1.66	1.64	1.60	1.56	1.53	1.99	1.09	-
TOTAL AREA (m2)	20.6	22.4	24.2	25.9	27.6	29.2	30.9	32.5	34.0	35.6	37.6	38.7	-
S/DISCHARGE(m3/s)	0.26	0.26	0.23	0.21	0.22	0.22	0.19	0.20	0.12	0.06	0.08	0.00	-
TOTAL DIS. (m3/s)	1.81	2.07	2.30	2.51	2.72	2.94	3.13	3.33	3.45	3.51	3.50	3.50	-

WATER LEVEL (f) : 2.19 WATER LEVEL (m) : 0.67
 TOTAL DISCHARGE : 3.60 MEAN VELOCITY(m/s) : 0.09

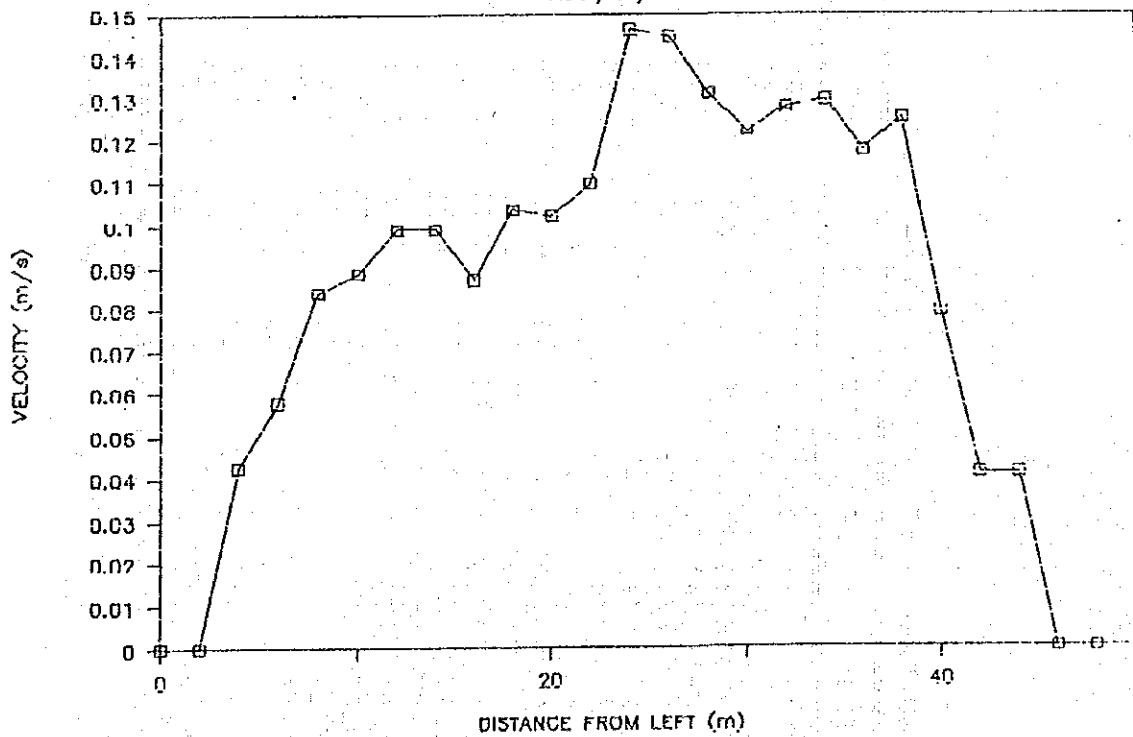
WATER DEPTH (4-050)

AUG./21/90



VELOCITY (4-050)

AUG./21/90



OCT./13/'90

RAGLAM FARM

ST. : 4-050

FLOW MEASUREMENT

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11
WATER DEPTH (m)	0.00	0.54	0.59	0.63	0.63	0.65	0.67	0.66	0.67	0.66	0.66
SE/WIDTH (m)	0.00	1.70	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	1.70	3.70	5.70	7.70	11.70	13.70	15.70	17.70	19.70	21.70
VELOCITY 2-1(f/s)	0.00	0.00	-	-	-	-	-	-	-	-	-
VELOCITY 2-2(f/s)	0.00	0.00	-	-	-	-	-	-	-	-	-
MEAN VEL. 2 (f/s)	0.00	0.00	-	-	-	-	-	-	-	-	-
VELOCITY 8-1(f/s)	0.00	0.10	0.10	0.15	0.22	0.20	0.30	0.20	0.25	0.23	0.22
VELOCITY 8-2(f/s)	0.00	0.10	0.10	0.15	0.22	0.20	0.30	0.20	0.25	0.23	0.22
MEAN VEL. 8 (f/s)	0.00	0.10	0.10	0.15	0.22	0.20	0.30	0.20	0.25	0.23	0.22
MEAN VEL (f/s)	0.00	0.10	0.10	0.15	0.22	0.20	0.30	0.20	0.25	0.23	0.22
MEAN VEL (m/s)	0.00	0.030	0.030	0.046	0.067	0.061	0.091	0.061	0.076	0.070	0.067
L/MEAN DEPTH (m)	0.000	0.270	0.578	0.620	0.630	0.645	0.665	0.663	0.668	0.653	0.660
L/MEAN WIDTH (m)	0.00	1.70	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L/SEC. AREA (m2)	0.00	0.46	0.58	0.62	0.63	0.65	0.67	0.66	0.67	0.66	0.66
R/MEAN DEPTH (m)	0.000	0.553	0.600	0.630	0.630	0.635	0.668	0.653	0.668	0.660	0.658
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
R/SEC. AREA (m2)	0.00	0.55	0.60	0.63	0.63	0.64	0.67	0.66	0.67	0.66	0.66
S/AREA (m2)	0.00	1.01	1.18	1.25	1.26	1.30	1.33	1.33	1.34	1.32	1.32
TOTAL AREA (m2)	0.0	1.0	2.2	3.4	4.7	7.3	8.6	9.9	11.3	12.6	13.9
S/DISCHARGE(m3/s)	0.00	0.00	0.04	0.06	0.08	0.10	0.12	0.08	0.10	0.09	0.09
TOTAL DIS. (m3/s)	0.00	0.00	0.04	0.09	0.18	0.27	0.48	0.56	0.66	0.75	0.84

WATER LEVEL (m) : -
 MEAN VELOCITY(m/s) : -

WATER LEVEL (f) : -
 TOTAL DISCHARGE : -

FLOW MEASUREMENT ST. : 4-050 RAGLAM FARM

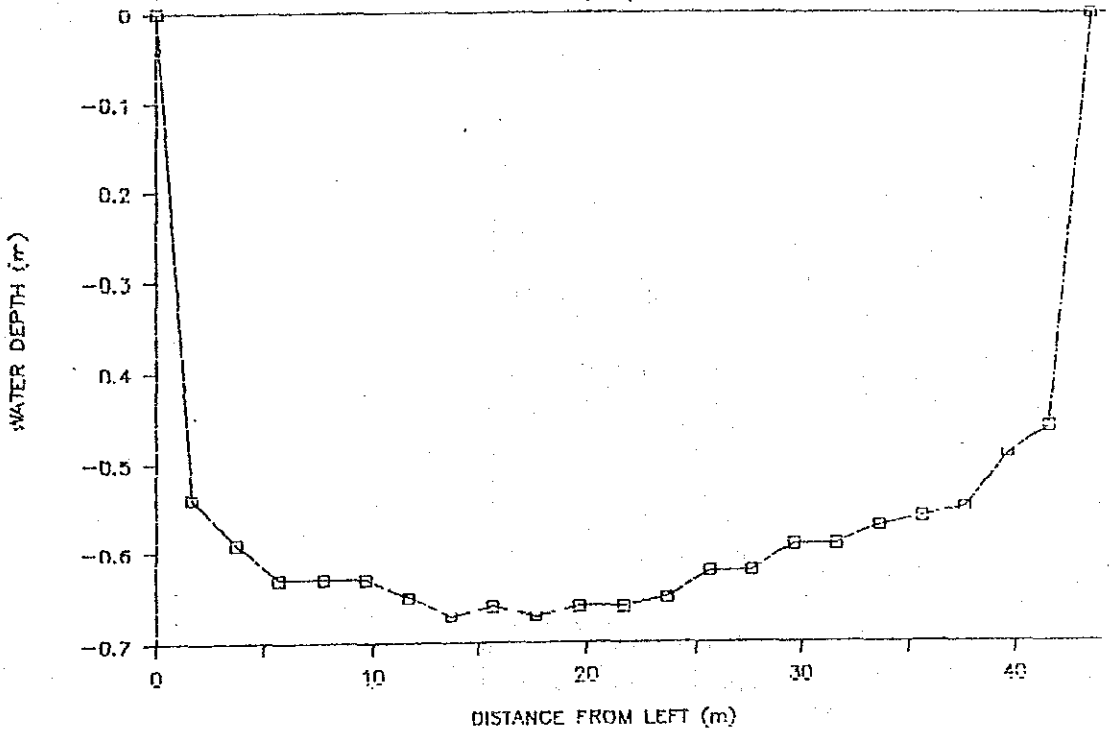
OCT./13/'90

ITEMS	NO-12	NO-13	NO-14	NO-15	NO-16	NO-17	NO-18	NO-19	NO-20	NO-21	NO-R
WATER DEPTH (m)	0.65	0.62	0.62	0.59	0.59	0.57	0.56	0.55	0.49	0.46	0.00
SE/WIDTH (m)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	23.70	25.70	27.70	29.70	31.70	33.70	35.70	37.70	39.70	41.70	43.70
VELOCITY.2-1(f/s)	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00
VELOCITY.2-2(f/s)	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00
MEAN VEL.2 (f/s)	-	-	-	-	-	-	-	0.00	0.00	0.00	0.00
VELOCITY.8-1(f/s)	0.20	0.15	0.20	0.20	0.18	0.15	0.25	0.00	0.00	0.00	0.00
VELOCITY.8-2(f/s)	0.20	0.15	0.20	0.20	0.18	0.15	0.25	0.00	0.00	0.00	0.00
MEAN VEL.8 (f/s)	0.20	0.15	0.20	0.20	0.18	0.15	0.25	0.00	0.00	0.00	0.00
MEAN VEL (f/s)	0.20	0.15	0.20	0.20	0.18	0.15	0.25	0.00	0.00	0.00	0.00
MEAN VEL (m/s)	0.061	0.046	0.061	0.061	0.055	0.046	0.075	0.000	0.000	0.000	0.000
L/MEAN DEPTH (m)	0.653	0.628	0.620	0.598	0.590	0.575	0.568	0.553	0.505	0.468	-
L/MEAN WIDTH (m)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
L/SEC. AREA (m2)	0.65	0.63	0.62	0.60	0.59	0.58	0.56	0.55	0.51	0.47	-
R/MEAN DEPTH (m)	0.643	0.620	0.613	0.590	0.585	0.568	0.558	0.535	0.483	0.230	-
R/MEAN WIDTH (m)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	-
R/SEC. AREA (m2)	0.64	0.62	0.61	0.59	0.59	0.57	0.56	0.54	0.48	0.46	-
S/AREA (m2)	1.30	1.25	1.23	1.19	1.18	1.14	1.12	1.09	0.99	0.93	-
TOTAL AREA (m2)	15.2	16.4	17.7	18.9	20.0	21.2	22.3	23.4	24.4	25.3	-
S/DISCHARGE(m3/s)	0.08	0.06	0.08	0.07	0.06	0.05	0.09	0.00	0.00	0.00	-
TOTAL DIS. (m3/s)	0.92	0.97	1.05	1.12	1.19	1.24	1.32	1.32	1.32	1.32	-

WATER LEVEL (f) : 1.40 WATER LEVEL (m) : 0.43
 TOTAL DISCHARGE : 1.32 MEAN VELOCITY(m/s) : 0.05

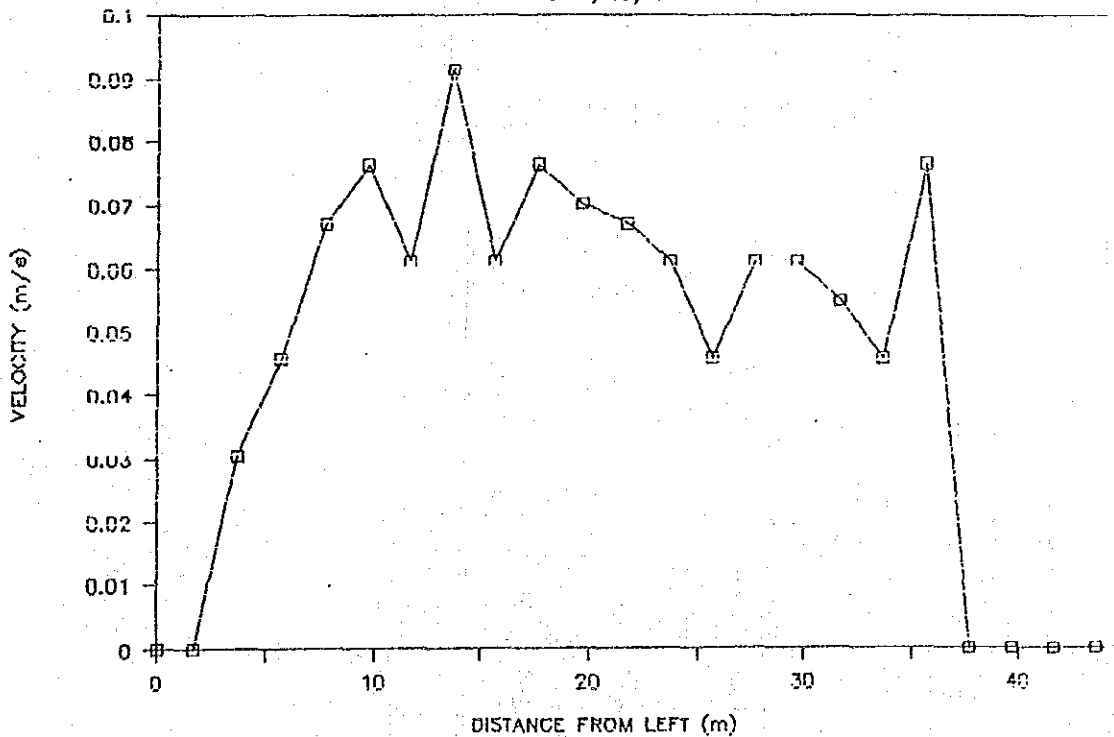
WATER DEPTH (4-050)

OCT./13/90



VELOCITY (4-050)

OCT./13/90



FLOW MEASUREMENT ST. : 4-050 RAGLAM FARM NOV./06/'90

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8
WATER DEPTH (m)	0.00	0.45	0.54	0.62	0.61	0.73	0.72	0.74	0.74
SE/WIDTH (m)	0.00	0.50	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	0.50	2.50	4.50	6.50	8.50	10.50	12.50	14.50
VELOCITY.2-1(f/s)	0.00	0.00	-	-	-	-	-	-	-
VELOCITY.2-2(f/s)	0.00	0.00	-	-	-	-	-	-	-
MEAN VEL.2 (f/s)	0.00	0.00	-	-	-	-	-	-	-
VELOCITY.8-1(f/s)	0.00	0.00	0.10	0.10	0.12	0.12	0.13	0.15	0.20
VELOCITY.8-2(f/s)	0.00	0.00	0.10	0.10	0.12	0.12	0.13	0.15	0.20
MEAN VEL.8 (f/s)	0.00	0.00	0.10	0.10	0.12	0.12	0.13	0.15	0.20
MEAN VEL (f/s)	0.00	0.00	0.10	0.10	0.12	0.12	0.13	0.15	0.20
MEAN VEL (m/s)	0.00	0.000	0.030	0.030	0.037	0.037	0.040	0.046	0.061
L/MEAN DEPTH (m)	0.000	0.225	0.518	0.600	0.613	0.700	0.723	0.735	0.740
L/MEAN WIDTH (m)	0.00	0.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L/SEC. AREA (m2)	0.00	0.11	0.52	0.60	0.61	0.70	0.72	0.74	0.74
R/MEAN DEPTH (m)	0.000	0.473	0.560	0.618	0.640	0.728	0.725	0.740	0.738
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
R/SEC. AREA (m2)	0.00	0.47	0.56	0.62	0.64	0.73	0.73	0.74	0.74
S/AREA (m2)	0.00	0.59	1.08	1.22	1.25	1.43	1.45	1.48	1.48
TOTAL AREA (m2)	0.0	0.6	1.7	2.9	4.1	5.6	7.0	8.5	10.0
S/DISCHARGE(m3/s)	0.00	0.00	0.03	0.04	0.05	0.05	0.06	0.07	0.09
TOTAL DIS. (m3/s)	0.00	0.00	0.03	0.07	0.12	0.17	0.23	0.29	0.38
WATER LEVEL (f) :	-	-	-	-	-	-	-	-	-
TOTAL DISCHARGE :	-	-	-	-	-	-	-	-	-
WATER LEVEL (m) :	-	-	-	-	-	-	-	-	-
MEAN VELOCITY(m/s) :	-	-	-	-	-	-	-	-	-

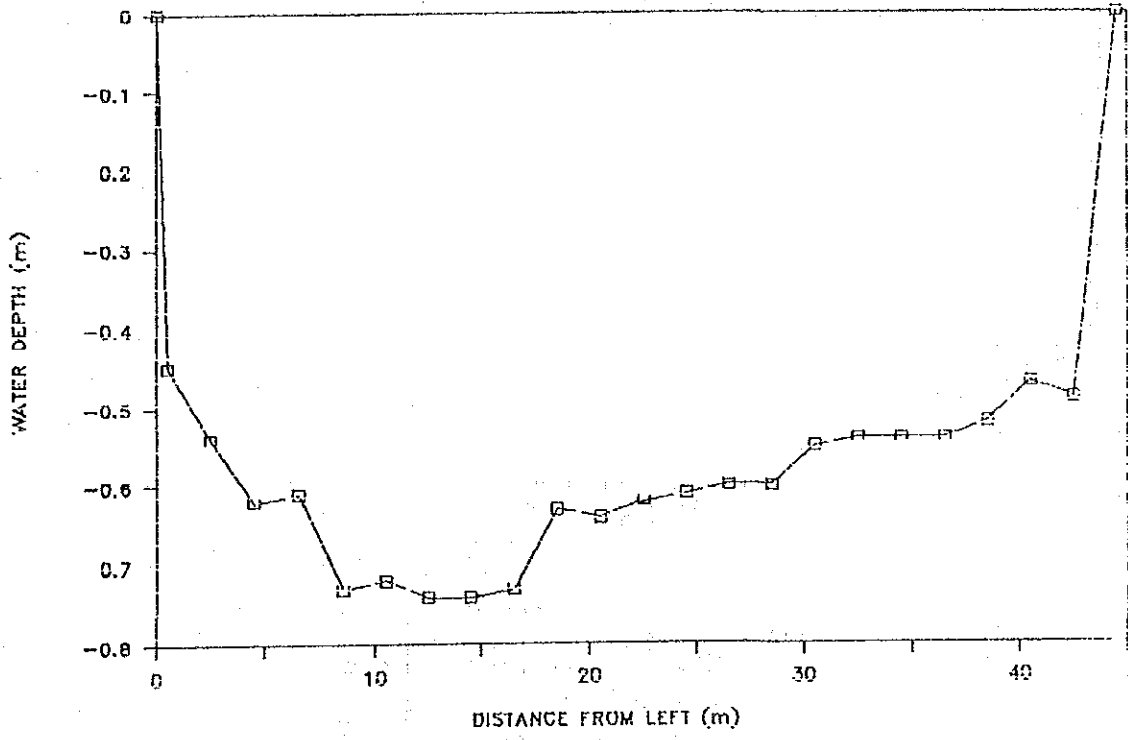
NOV./06/'90

FLOW MEASUREMENT ST. : 4-050 RAGLAM FARM

ITEMS	NO-12	NO-13	NO-14	NO-15	NO-16	NO-17	NO-18	NO-19	NO-20	NO-21	NO-22	NO-R
WATER DEPTH (m)	0.62	0.61	0.60	0.60	0.55	0.54	0.54	0.54	0.52	0.47	0.49	0.00
SE/WIDTH (m)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	22.50	24.50	26.50	28.50	30.50	32.50	34.50	36.50	38.50	40.50	42.50	44.50
VELOCITY.2-1 (f/s)	-	-	-	-	-	-	-	-	-	-	0.00	0.00
VELOCITY.2-2 (f/s)	-	-	-	-	-	-	-	-	-	-	0.00	0.00
MEAN VEL.2 (f/s)	-	-	-	-	-	-	-	-	-	-	0.00	0.00
VELOCITY.8-1 (f/s)	0.30	0.19	0.15	0.18	0.25	0.15	0.12	0.12	0.12	0.10	0.00	0.00
VELOCITY.8-2 (f/s)	0.30	0.19	0.15	0.18	0.25	0.15	0.12	0.12	0.12	0.10	0.00	0.00
MEAN VEL.8 (f/s)	0.30	0.19	0.15	0.18	0.25	0.15	0.12	0.12	0.12	0.10	0.00	0.00
MEAN VEL (f/s)	0.30	0.19	0.15	0.18	0.25	0.15	0.12	0.12	0.12	0.10	0.00	0.00
MEAN VEL (m/s)	0.091	0.058	0.046	0.055	0.076	0.046	0.037	0.037	0.037	0.030	0.000	0.000
L/MEAN DEPTH (m)	0.625	0.613	0.603	0.600	0.563	0.543	0.540	0.540	0.525	0.483	0.485	-
L/MEAN WIDTH (m)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	-
L/SEC. AREA (m2)	0.63	0.61	0.60	0.60	0.56	0.54	0.54	0.54	0.53	0.48	0.97	-
R/MEAN DEPTH (m)	0.618	0.608	0.600	0.588	0.548	0.540	0.540	0.535	0.508	0.475	0.245	-
R/MEAN WIDTH (m)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	-
R/SEC. AREA (m2)	0.62	0.61	0.60	0.59	0.55	0.54	0.54	0.54	0.51	0.48	0.49	-
S/AREA (m2)	1.24	1.22	1.20	1.19	1.11	1.08	1.08	1.08	1.03	0.96	1.46	-
TOTAL AREA (m2)	15.2	16.4	17.6	18.8	19.9	21.0	22.1	23.2	24.2	25.1	26.6	-
S/DISCHARGE (m3/s)	0.11	0.07	0.05	0.07	0.08	0.05	0.04	0.04	0.04	0.03	0.00	-
TOTAL DIS. (m3/s)	0.78	0.85	0.90	0.97	1.05	1.10	1.14	1.18	1.22	1.25	1.25	-
WATER LEVEL (f) :	1.25	WATER LEVEL (m) : 0.38										
TOTAL DISCHARGE :	1.25	MEAN VELOCITY(m/s) : 0.05										

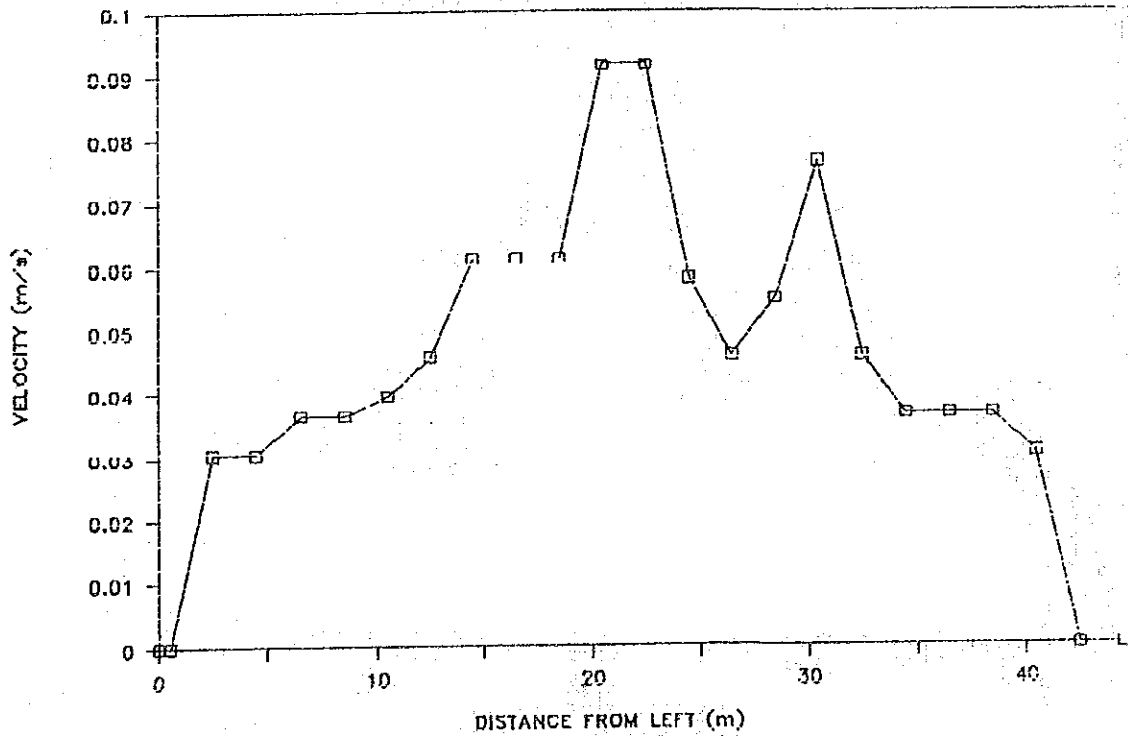
WATER DEPTH (4-050)

NOV./06/'90



VELOCITY (4-050)

NOV./06/'90



FLOW MEASUREMENT ST. : 4-050 RACLAM FARM DEC./24/'90

ITEMS	ND-1	ND-2	ND-3	ND-4	ND-5	ND-6	ND-7	ND-8	ND-9	ND-10	ND-11
WATER DEPTH (m)	0.70	0.75	0.80	0.78	0.78	0.75	0.78	0.80	0.80	0.79	0.80
SEAWIDTH (m)	2.20	4.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SEAWIDTH(m)	0.00	2.20	6.20	10.20	12.20	14.20	16.20	18.20	20.20	22.20	24.20
VELOCITY 2-1(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY 2-2(f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MEAN VEL. 2 (f/s)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
VELOCITY 8-1(f/s)	0.00	0.32	0.40	0.42	0.50	0.50	0.42	0.50	0.48	0.54	0.55
VELOCITY 8-2(f/s)	0.00	0.00	0.40	0.42	0.50	0.50	0.42	0.50	0.48	0.54	0.56
MEAN VEL. 8 (f/s)	0.00	0.32	0.40	0.42	0.50	0.50	0.42	0.50	0.48	0.54	0.55
MEAN VEL (f/s)	0.00	0.32	0.40	0.42	0.50	0.50	0.42	0.50	0.48	0.54	0.56
MEAN VEL (m/s)	0.00	0.098	0.122	0.128	0.152	0.152	0.128	0.152	0.148	0.165	0.171
LAMEAN DEPTH (m)	0.000	0.350	0.788	0.785	0.780	0.758	0.773	0.795	0.800	0.793	0.798
LAMEAN WIDTH (m)	0.00	2.20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L/SEC. AREA (m2)	0.00	0.77	1.48	0.79	0.78	0.76	0.77	0.80	0.80	0.79	0.80
RAMEAN DEPTH (m)	0.000	0.713	0.763	0.780	0.773	0.758	0.785	0.800	0.798	0.793	0.800
RAMEAN WIDTH (m)	0.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
R/SEC. AREA (m2)	0.00	1.43	0.76	0.78	0.77	0.76	0.79	0.80	0.80	0.79	0.80
S/AREA (m2)	0.00	2.20	2.24	1.58	1.57	1.55	1.56	1.60	1.60	1.59	1.60
TOTAL AREA (m2)	0.0	2.2	4.4	6.0	7.6	9.1	10.8	12.2	13.8	15.4	16.5
S/ANSDISCHARGE(m3/s)	0.00	0.00	0.22	0.19	0.20	0.23	0.20	0.24	0.23	0.26	0.27
TOTAL DIS. (m3/s)	0.00	0.22	0.41	0.61	0.85	1.08	1.28	1.52	1.76	2.02	2.28

WATER LEVEL (f) : --- WATER LEVEL (m) : ---
 TOTAL DISCHARGE : --- MEAN VELOCITY(m/s) : ---

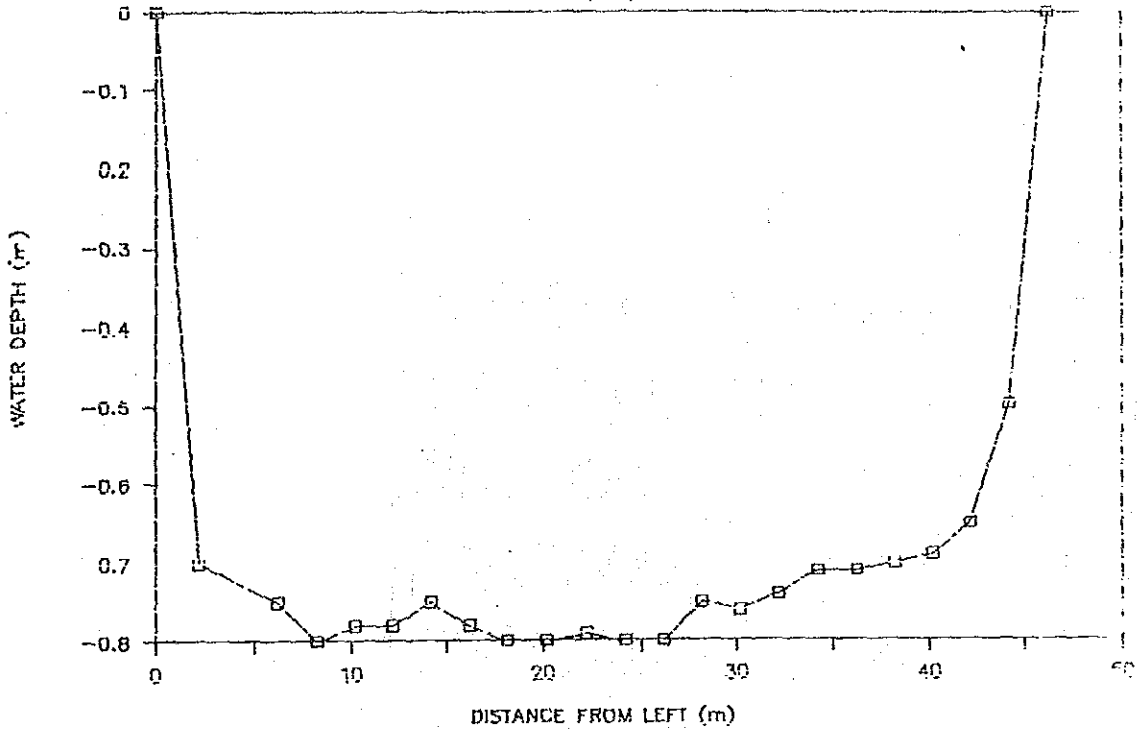
FLOW MEASUREMENT ST. : 4-050 RAGLAM FARM DEC./24/'90

ITEMS	NO-12	NO-13	NO-14	NO-15	NO-16	NO-17	NO-18	NO-19	NO-20	NO-21	NO-R
WATER DEPTH (m)	0.80	0.75	0.76	0.74	0.71	0.71	0.70	0.69	0.65	0.50	0.00
SE/WIDTH (m)	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	26.20	28.20	30.20	32.20	34.20	36.20	38.20	40.20	42.20	44.20	46.20
VELOCITY. 2-1 (f/s)	-	-	-	-	-	-	-	-	-	-	0.00
VELOCITY. 2-2 (f/s)	-	-	-	-	-	-	-	-	-	-	0.00
MEAN VEL. 2 (f/s)	-	-	-	-	-	-	-	-	-	-	0.00
VELOCITY. 8-1 (f/s)	0.60	0.54	0.42	0.25	0.38	0.22	0.48	0.35	0.15	0.10	0.00
VELOCITY. 8-2 (f/s)	0.60	0.54	0.42	0.25	0.38	0.22	0.48	0.35	0.15	0.10	0.00
MEAN VEL. 8 (f/s)	0.60	0.54	0.42	0.25	0.38	0.22	0.48	0.35	0.15	0.10	0.00
MEAN VEL (f/s)	0.60	0.54	0.42	0.25	0.38	0.22	0.48	0.35	0.15	0.10	0.00
MEAN VEL (m/s)	0.183	0.165	0.128	0.076	0.116	0.067	0.146	0.107	0.046	0.030	0.000
L/MEAN DEPTH (m)	0.800	0.763	0.758	0.745	0.718	0.710	0.703	0.693	0.650	0.538	-
L/MEAN WIDTH (m)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
L/SEC. AREA (m2)	0.80	0.76	0.76	0.75	0.72	0.71	0.70	0.69	0.66	0.54	-
R/MEAN DEPTH (m)	0.788	0.753	0.755	0.733	0.710	0.708	0.698	0.680	0.613	0.250	-
R/MEAN WIDTH (m)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	-
R/SEC. AREA (m2)	0.79	0.75	0.76	0.73	0.71	0.71	0.70	0.68	0.61	0.50	-
S/AREA (m2)	1.59	1.52	1.51	1.48	1.43	1.42	1.40	1.37	1.27	1.04	-
TOTAL AREA (m2)	20.2	21.7	23.2	24.7	26.1	27.5	28.9	30.3	31.6	32.6	-
S/DISCHARGE (m3/s)	0.29	0.25	0.19	0.11	0.17	0.10	0.20	0.15	0.06	0.03	-
TOTAL DIS. (m3/s)	2.53	2.83	3.02	3.13	3.30	3.40	3.60	3.75	3.80	3.84	-

WATER LEVEL (f) : 1.80 WATER LEVEL (m) : 0.55
 TOTAL DISCHARGE : 3.84 MEAN VELOCITY (m/s) : 0.12

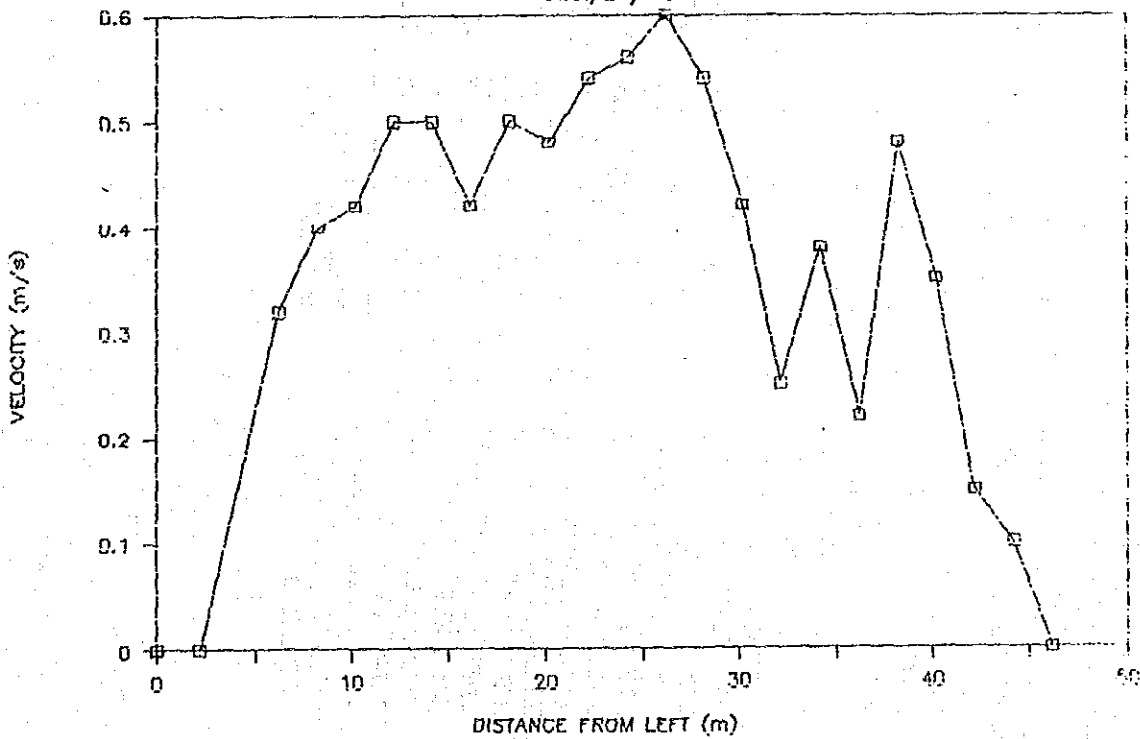
WATER DEPTH (4-050)

DEC./24/'80



VELOCITY (4-050)

DEC./24/'80

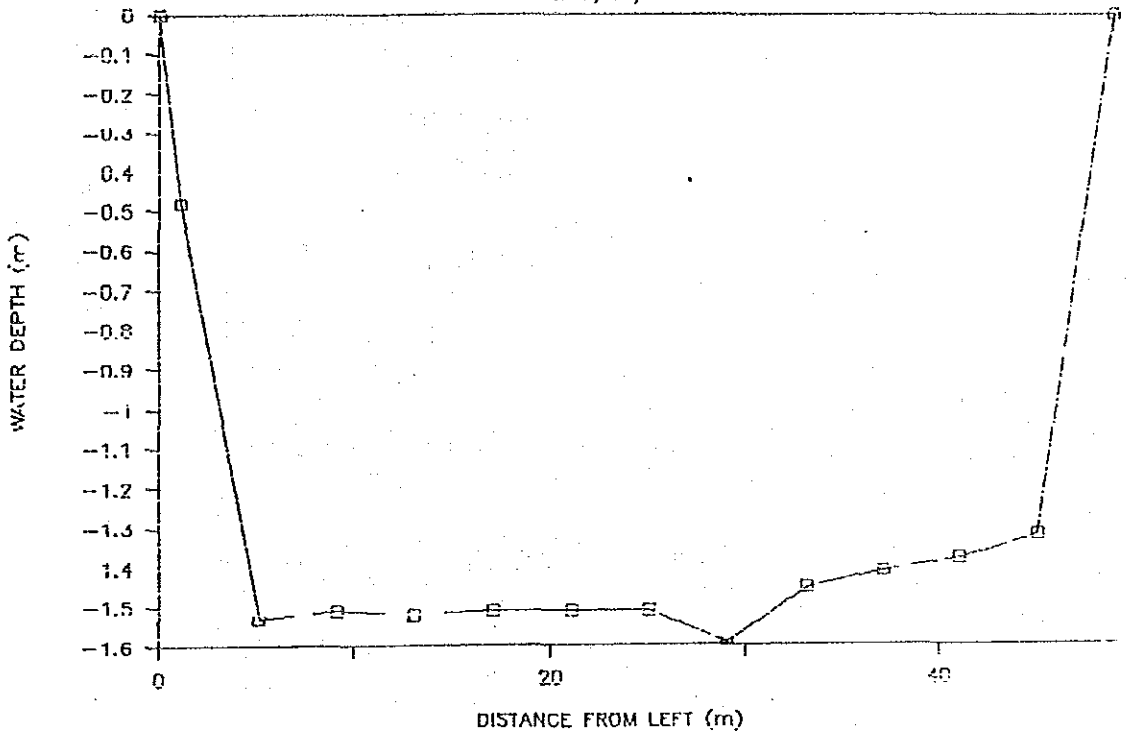


	ND-1	ND-2	ND-3	ND-4	ND-5	ND-6	ND-7	ND-8	ND-9	ND-10	ND-11	ND-12	ND-R
WATER DEPTH (m)	0.00	1.53	1.51	1.52	1.51	1.51	1.51	1.51	1.45	1.41	1.38	1.32	0.00
SE/WIDTH (m)	0.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
TOTAL SE/WIDTH(m)	0.00	5.10	9.10	13.10	17.10	21.10	25.10	29.10	33.10	37.10	41.10	45.10	49.10
VELOCITY 2-1(f/s)	0.00	0.32	0.92	1.08	1.10	1.10	0.95	0.88	0.98	0.92	0.68	0.15	0.00
VELOCITY 2-2(f/s)	0.00	0.32	0.92	1.08	1.10	1.10	0.95	0.88	0.98	0.92	0.68	0.15	0.00
MEAN VEL. 2 (f/s)	0.00	0.32	0.92	1.08	1.10	1.10	0.95	0.88	0.98	0.92	0.68	0.15	0.00
VELOCITY 8-1(f/s)	0.00	0.30	0.68	0.72	0.72	0.70	0.60	0.65	0.60	0.68	0.32	0.10	0.00
VELOCITY 8-2(f/s)	0.00	0.30	0.68	0.72	0.72	0.70	0.60	0.66	0.60	0.68	0.32	0.10	0.00
MEAN VEL. 8 (f/s)	0.00	0.30	0.68	0.72	0.72	0.70	0.60	0.66	0.60	0.68	0.32	0.10	0.00
MEAN VEL. (f/s)	0.00	0.31	0.80	0.90	0.91	0.90	0.78	0.77	0.79	0.80	0.50	0.13	0.00
MEAN VEL. (m/s)	0.00	0.094	0.244	0.274	0.277	0.274	0.236	0.235	0.241	0.244	0.152	0.038	0.000
L/MEAN DEPTH (m)	0.000	1.268	1.515	1.518	1.513	1.510	1.510	1.570	1.486	1.420	1.388	1.335	-
L/MEAN WIDTH (m)	0.00	1.10	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	-
L/SEC. AREA (m2)	0.00	0.26	2.54	3.03	3.03	3.02	3.02	3.14	2.97	2.84	2.78	2.67	-
R/MEAN DEPTH (m)	0.000	0.743	1.525	1.513	1.510	1.510	1.530	1.555	1.440	1.403	1.365	0.660	-
R/MEAN WIDTH (m)	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	4.00	-
R/SEC. AREA (m2)	0.00	1.49	3.05	3.03	3.02	3.02	3.06	3.11	2.83	2.81	2.73	2.54	-
S/AREA (m2)	0.00	1.75	5.59	6.07	6.05	6.04	6.08	6.26	5.85	5.65	5.51	5.31	-
TOTAL AREA (m2)	0.0	1.7	7.3	13.4	19.5	25.5	31.5	37.6	43.9	49.7	55.4	66.2	-
S/DISTANCE(m/s)	0.00	0.53	1.48	1.67	1.68	1.66	1.44	1.47	1.41	1.38	0.94	0.20	-
TOTAL DIS. (m3/s)	0.00	0.53	2.00	3.67	5.35	7.00	8.44	9.91	11.31	12.69	13.53	13.73	-

WATER LEVEL (f) : 4.15 WATER LEVEL (m) : 1.26
 TOTAL DISCHARGE : 13.73 MEAN VELOCITY(m/s) : 0.21

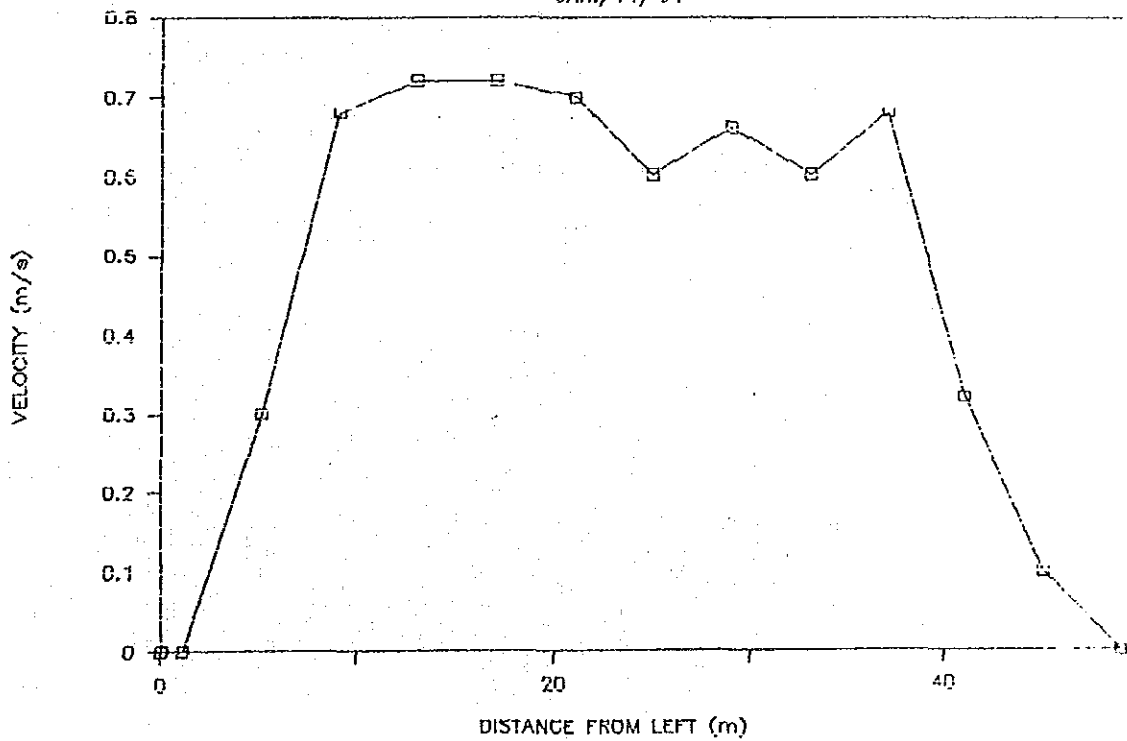
WATER DEPTH (4-050)

JAN./14/91



VELOCITY (4-050)

JAN./14/91

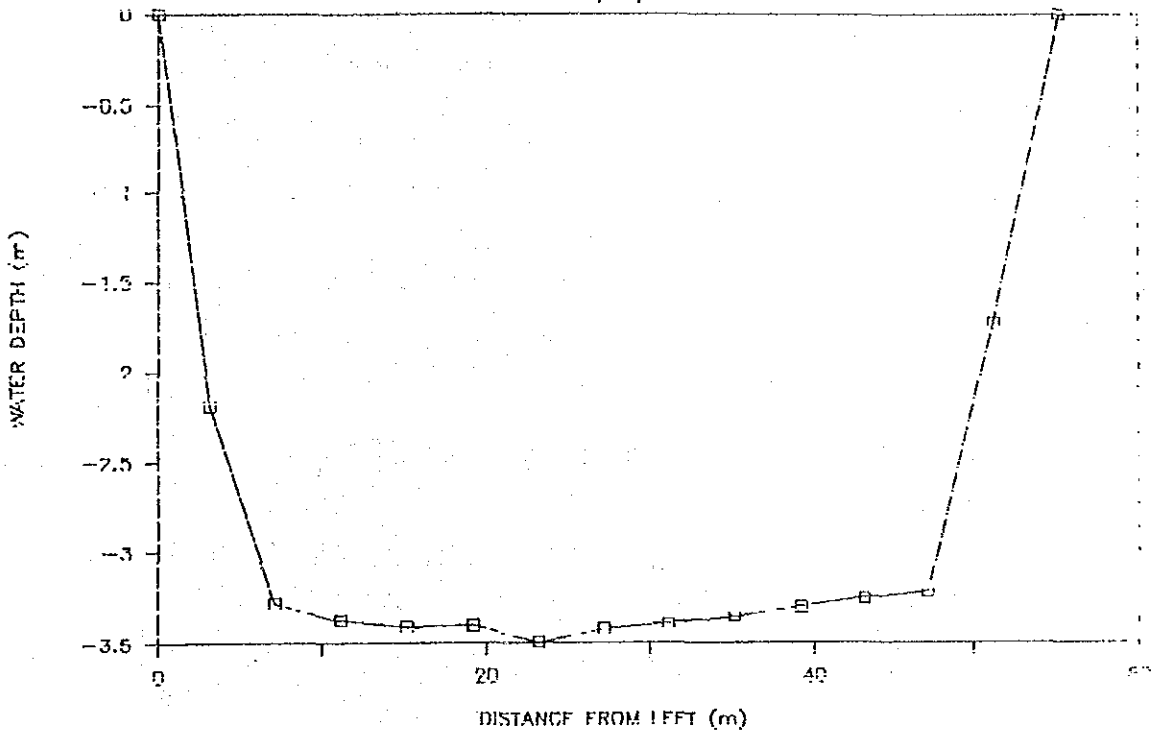


FLOW MEASUREMENT ST. : 4-050 RAGLAM FARM FEB. /14/ '91

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11	NO-12	NO-13	NO-R
WATER DEPTH (m)	0.00	2.18	3.28	3.37	3.41	3.40	3.49	3.42	3.39	3.35	3.30	3.25	3.21	1.72	0.00
S/WIDTH (m)	0.00	3.18	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
TOTAL SE/WIDTH(m)	0.00	3.18	7.18	11.18	15.18	19.18	23.18	27.18	31.18	35.18	39.18	43.18	47.18	51.18	55.18
VELOCITY.2-1(f/s)	0.00	0.20	0.50	1.60	2.00	2.00	2.50	1.90	2.20	1.50	1.80	0.80	0.20	0.00	0.00
VELOCITY.2-2(f/s)	0.00	0.20	0.50	1.60	2.00	2.00	2.50	1.95	2.15	1.50	1.80	0.80	0.20	0.00	0.00
MEAN VEL.2 (f/s)	0.00	0.20	0.50	1.60	2.00	2.00	2.50	1.93	2.18	1.50	1.80	0.80	0.20	0.00	0.00
VELOCITY.8-1(f/s)	0.00	0.10	0.25	1.10	1.20	1.70	1.80	1.50	1.50	1.20	1.20	0.70	0.16	0.00	0.00
VELOCITY.8-2(f/s)	0.00	0.10	0.25	1.10	1.20	1.70	1.80	1.50	1.50	1.20	1.20	0.70	0.16	0.00	0.00
MEAN VEL.8 (f/s)	0.00	0.10	0.25	1.10	1.20	1.70	1.80	1.50	1.50	1.20	1.20	0.70	0.16	0.00	0.00
MEAN VEL (m/s)	0.00	0.045	0.114	0.411	0.488	0.564	0.555	0.522	0.560	0.411	0.457	0.229	0.055	0.000	0.000
L/MEAN DEPTH (m)	0.000	1.090	3.005	3.348	3.400	3.403	3.468	3.438	3.398	3.360	3.313	3.263	3.220	2.093	-
L/MEAN WIDTH (m)	0.00	3.18	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	-
L/SEC. AREA (m2)	0.00	3.47	6.01	6.70	6.80	6.81	6.94	6.68	6.80	6.72	6.63	6.53	6.44	4.19	-
R/MEAN DEPTH (m)	0.000	2.455	3.303	3.380	3.408	3.423	3.473	3.413	3.380	3.338	3.288	3.240	2.898	0.860	-
R/MEAN WIDTH (m)	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	4.00	-
R/SEC. AREA (m2)	0.00	4.91	6.61	6.76	6.82	6.85	6.95	6.83	6.76	6.68	6.58	6.48	5.68	3.44	-
S/AREA (m2)	0.00	8.38	12.62	13.46	13.62	13.65	13.98	13.70	13.56	13.40	13.20	13.01	12.12	7.63	-
TOTAL AREA (m2)	0.0	8.4	21.0	34.4	48.1	61.7	75.6	89.3	102.8	116.2	128.4	142.4	154.6	182.2	-
S/DISCHARGE(m3/s)	0.00	0.38	1.44	5.54	6.64	7.70	9.10	7.15	7.59	5.51	6.04	2.97	0.66	0.00	-
TOTAL DIS. (m3/s)	0.00	0.38	1.82	7.36	14.00	21.70	30.79	37.94	45.54	51.05	57.08	60.06	60.72	60.72	-
WATER LEVEL (f)	10.46														
WATER LEVEL (m)	3.18														
TOTAL DISCHARGE	50.72														
MEAN VELOCITY(m/s)	0.37														

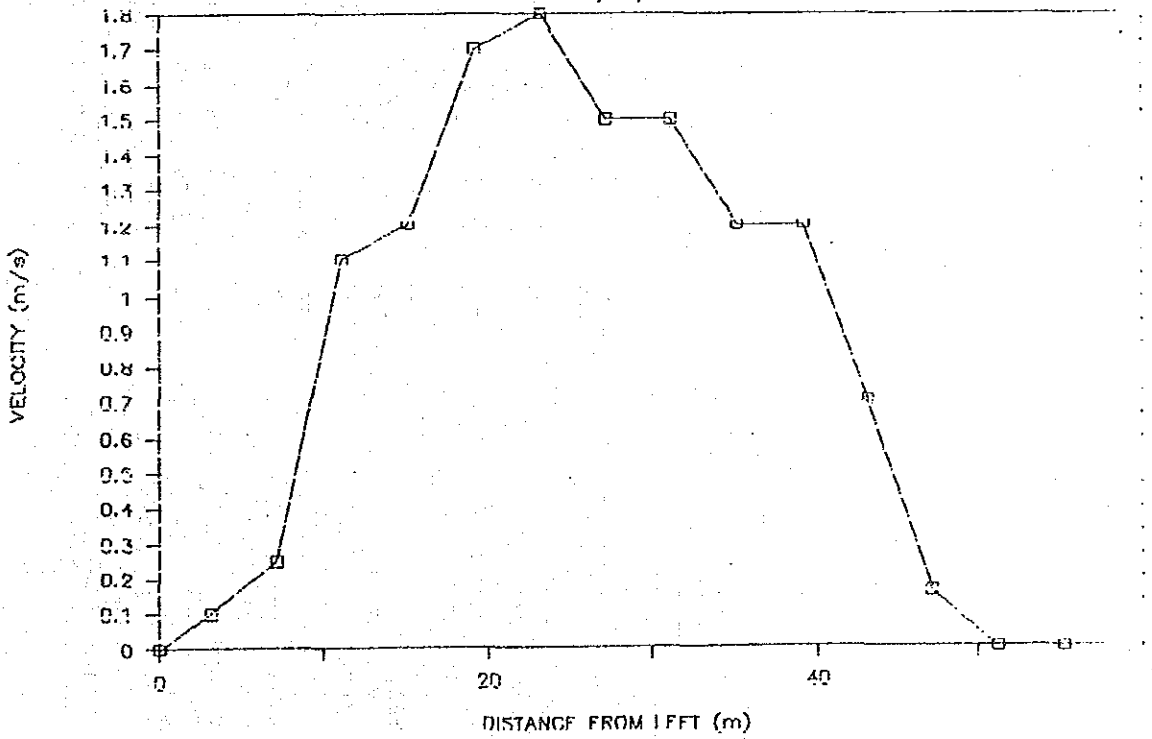
WATER DEPTH (4-050)

FEB./14/91



VELOCITY (4-050)

FEB./14/91

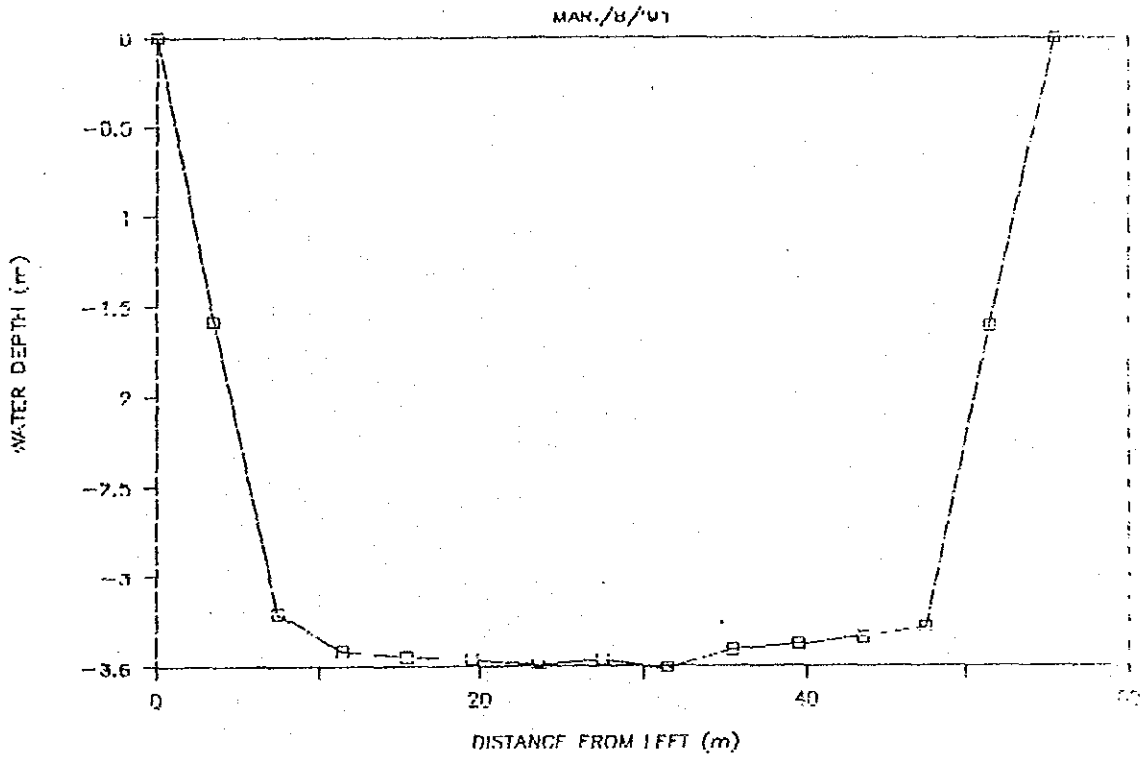


FLOW MEASUREMENT ST. : 4-050 BAGLAM FARM MAR./8/91

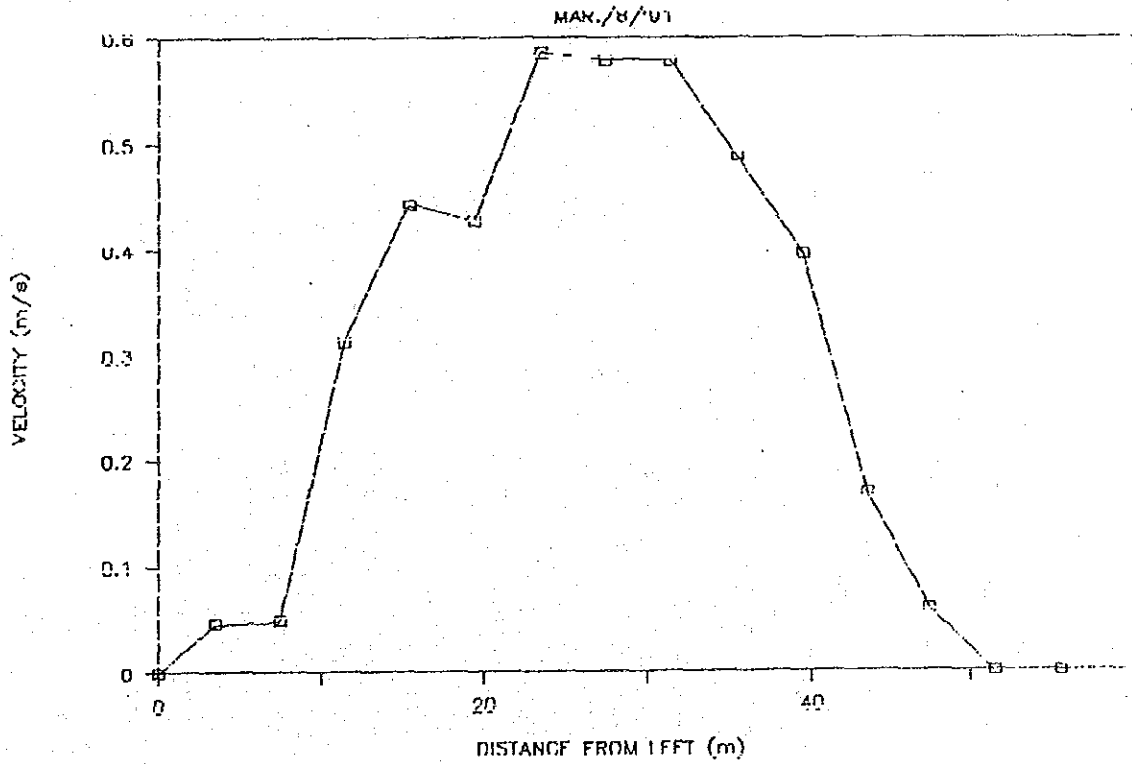
ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11	NO-12	NO-13	NO-14
WATER DEPTH (m)	1.53	3.20	3.41	3.44	3.45	3.48	3.45	3.50	3.40	3.37	3.33	3.28	1.60	0.00
SE/WIDTH (m)	3.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
TOTAL SE/WIDTH (m)	3.50	7.50	11.50	15.50	19.50	23.50	27.50	31.50	35.50	39.50	43.50	47.50	51.50	55.50
VELOCITY. 2-1 (f/s)	0.20	0.20	1.24	1.68	1.70	2.30	2.10	2.10	1.80	1.50	0.60	0.28	0.00	0.00
VELOCITY. 2-2 (f/s)	0.20	0.20	1.24	1.68	1.70	2.30	2.10	2.10	1.80	1.50	0.60	0.28	0.00	0.00
MEAN VEL. 2 (f/s)	0.20	0.20	1.24	1.68	1.70	2.30	2.10	2.10	1.80	1.50	0.60	0.28	0.00	0.00
VELOCITY. 3-1 (f/s)	0.10	0.12	0.82	1.22	1.10	1.54	1.70	1.70	1.40	1.10	0.50	0.10	0.00	0.00
VELOCITY. 3-2 (f/s)	0.10	0.12	0.82	1.22	1.10	1.54	1.70	1.70	1.40	1.10	0.50	0.10	0.00	0.00
MEAN VEL. 3 (f/s)	0.10	0.12	0.82	1.22	1.10	1.54	1.70	1.70	1.40	1.10	0.50	0.10	0.00	0.00
MEAN VEL. 4 (f/s)	0.15	0.16	1.03	1.45	1.40	1.92	1.90	1.90	1.60	1.30	0.55	0.19	0.00	0.00
MEAN VEL (m/s)	0.046	0.049	0.314	0.442	0.427	0.585	0.579	0.579	0.488	0.396	0.168	0.082	0.000	0.000
L/MEAN DEPTH (m)	0.000	0.790	2.795	3.350	3.448	3.473	3.458	3.468	3.425	3.378	3.340	3.293	2.020	-
L/MEAN WIDTH (m)	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	-
L/SEC. AREA (m2)	0.00	2.77	5.59	6.72	6.87	6.95	6.92	6.99	6.05	6.76	6.60	6.59	4.04	-
R/MEAN DEPTH (m)	0.000	1.985	3.253	3.418	3.443	3.473	3.463	3.475	3.393	3.360	3.318	2.860	0.800	-
R/MEAN WIDTH (m)	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	-
R/SEC. AREA (m2)	0.00	3.97	6.51	6.84	6.89	6.95	6.93	6.95	6.79	6.72	6.64	5.72	3.20	-
S/AREA (m2)	0.00	6.74	12.10	13.55	13.75	13.81	13.84	13.93	13.64	13.48	13.32	12.31	7.24	-
TOTAL AREA (m2)	0.0	6.7	18.8	32.4	46.1	59.9	73.8	87.7	101.6	115.2	129.7	154.3	161.6	-
S/DISCHARGE (m3/s)	0.00	0.31	0.59	4.25	6.08	5.89	6.13	6.06	6.65	5.34	2.23	0.71	0.00	-
TOTAL DIS. (m3/s)	0.00	0.31	0.90	5.15	11.23	17.12	25.25	33.27	41.33	47.98	53.32	55.56	59.26	-

WATER LEVEL (f) : 10.50 WATER LEVEL (m) : 3.20
 TOTAL DISCHARGE : 56.26 MEAN VELOCITY (m/s) : 0.35

WATER DEPTH (4-050)



VELOCITY (4-050)



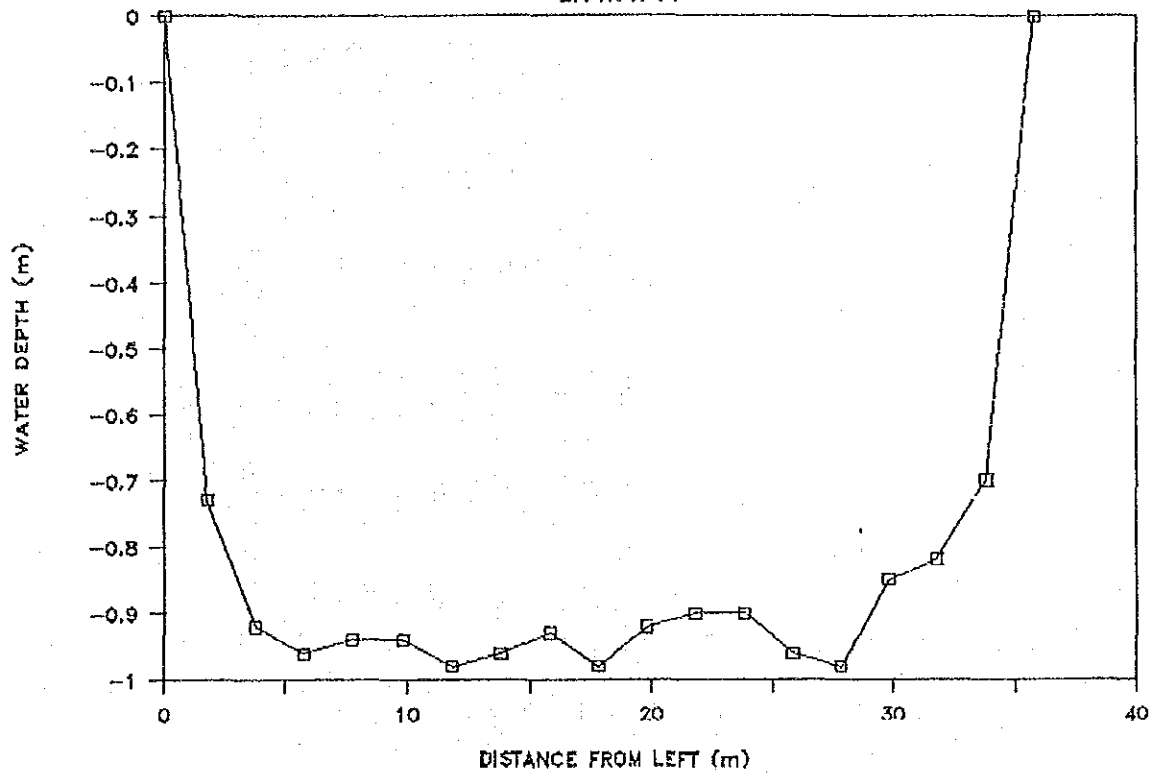
ITEMS	ND-1	ND-2	ND-3	ND-4	ND-5	ND-6	ND-7	ND-8	ND-9	ND-10	ND-11	ND-12	ND-13	ND-14	ND-15	ND-16	ND-17	ND-R
WATER DEPTH (m)	0.00	0.73	0.92	0.96	0.94	0.98	0.96	0.93	0.98	0.92	0.90	0.90	0.96	0.98	0.85	0.82	0.70	0.00
SE/WIDTH (m)	0.00	1.80	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	1.80	3.80	5.80	7.80	9.80	13.80	15.80	17.80	19.80	21.80	23.80	25.80	27.80	29.80	31.80	33.80	35.80
VELOCITY.2-1(f/s)	0.00	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
VELOCITY.2-2(f/s)	0.00	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
MEAN VEL.2 (f/s)	0.00	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.00
VELOCITY.8-1(f/s)	0.00	0.00	0.00	0.30	0.80	0.70	0.35	0.50	0.40	0.45	0.50	0.40	0.30	0.25	0.50	0.35	0.00	0.00
VELOCITY.8-2(f/s)	0.00	0.00	0.00	0.35	0.80	0.80	0.40	0.45	0.40	0.40	0.50	0.40	0.40	0.20	0.50	0.35	0.00	0.00
MEAN VEL.8 (f/s)	0.00	0.00	0.00	0.33	0.80	0.75	0.38	0.48	0.40	0.43	0.50	0.40	0.35	0.23	0.50	0.35	0.00	0.00
MEAN VEL (f/s)	0.00	0.00	0.00	0.33	0.80	0.75	0.38	0.48	0.40	0.43	0.50	0.40	0.35	0.23	0.50	0.35	0.00	0.00
MEAN VEL (m/s)	0.00	0.000	0.000	0.099	0.244	0.229	0.160	0.145	0.122	0.130	0.152	0.122	0.107	0.069	0.152	0.107	0.000	0.000
L/MEAN DEPTH (m)	0.000	0.365	0.873	0.950	0.945	0.940	0.970	0.938	0.968	0.935	0.905	0.900	0.945	0.975	0.883	0.828	0.730	-
L/MEAN WIDTH (m)	0.00	1.80	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
L/SEC. AREA (m2)	0.00	0.66	0.87	0.95	0.95	0.94	0.97	0.94	0.97	0.94	0.91	0.90	0.95	0.98	0.88	0.83	0.73	-
R/MEAN DEPTH (m)	0.000	0.778	0.930	0.955	0.940	0.950	0.975	0.953	0.943	0.915	0.900	0.915	0.965	0.948	0.843	0.790	0.350	-
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	-
R/SEC. AREA (m2)	0.00	0.78	0.93	0.96	0.94	0.95	0.98	0.95	0.94	0.97	0.92	0.90	0.97	0.95	0.84	0.79	0.70	-
S/AREA (m2)	0.00	1.43	1.80	1.91	1.89	1.89	1.95	1.88	1.93	1.85	1.81	1.82	1.91	1.92	1.73	1.62	1.43	-
TOTAL AREA (m2)	0.0	1.4	3.2	5.1	7.0	8.9	10.9	12.8	14.7	16.6	20.2	22.1	24.0	25.9	27.6	29.2	30.7	-
S/DISCHARGE(m3/s)	0.00	0.00	0.00	0.19	0.46	0.43	0.31	0.27	0.24	0.24	0.28	0.22	0.20	0.13	0.26	0.17	0.00	-
TOTAL DIS. (m3/s)	0.00	0.00	0.00	0.19	0.65	1.08	1.39	1.61	1.88	2.12	2.36	2.85	3.06	3.19	3.45	3.63	3.63	-

ALL CF SECTION ARE APPLIED 0.6 DEPTH METHOD.

WATER LEVEL (f) : 2.29 WATER LEVEL (m) : 0.70
 TOTAL DISCHARGE : 3.63 MEAN VELOCITY(m/s) : 0.12

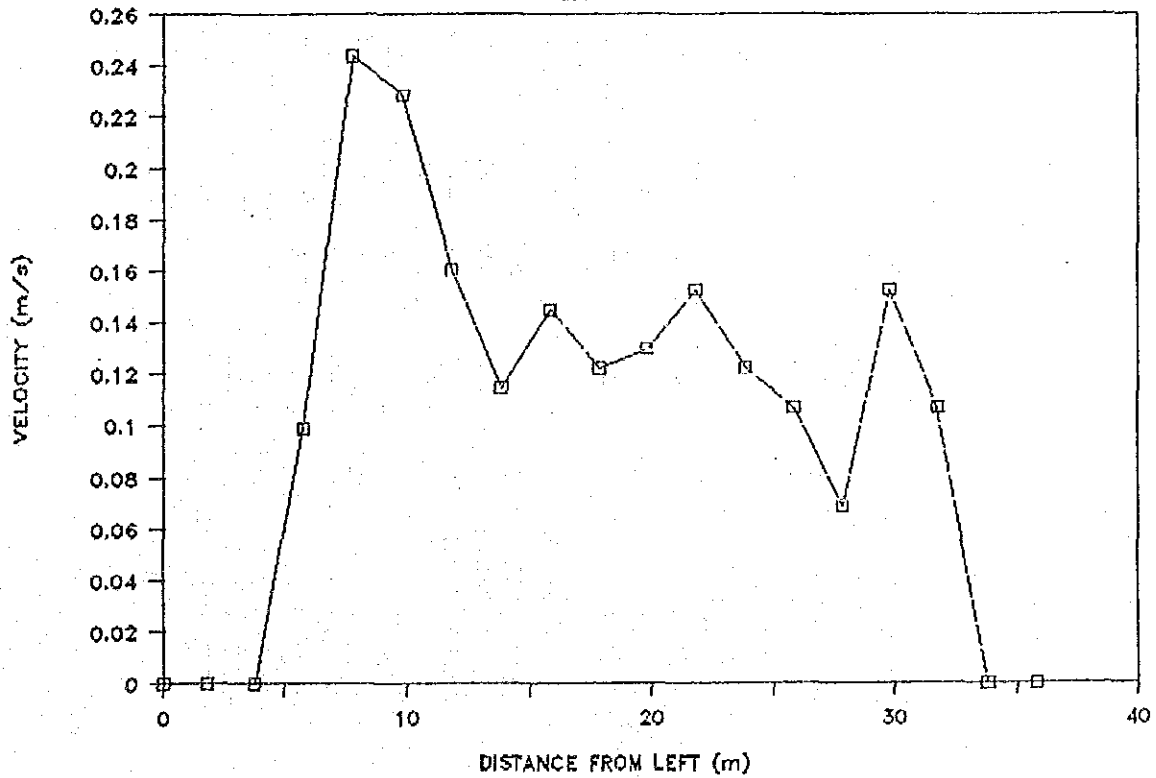
WATER DEPTH (4-050)

27/AUG/91



VELOCITY (4-050)

27/AUG/91



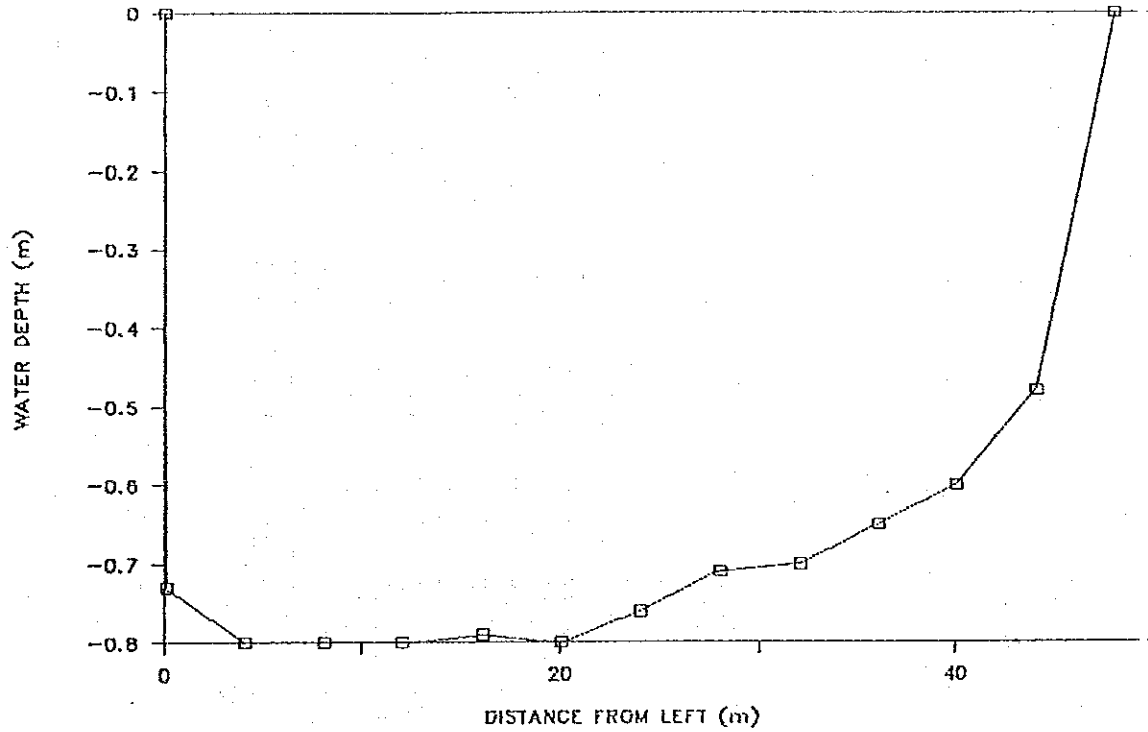
FLOW MEASUREMENT ST. : 4-050 RAGLAM FARM 16/SEP/91

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11	NO-12	NO-R
WATER DEPTH (m)	0.00	0.80	0.80	0.80	0.79	0.80	0.76	0.71	0.70	0.65	0.60	0.48	0.00
SE/WIDTH (m)	0.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
TOTAL SE/WIDTH(m)	0.00	4.10	8.10	12.10	16.10	20.10	24.10	28.10	32.10	36.10	40.10	44.10	48.10
VELOCITY.2-1(f/s)	0.00	-	-	-	-	-	-	-	-	-	-	-	0.00
VELOCITY.2-2(f/s)	0.00	-	-	-	-	-	-	-	-	-	-	-	0.00
MEAN VEL.2 (f/s)	0.00	-	-	-	-	-	-	-	-	-	-	-	0.00
VELOCITY.8-1(f/s)	0.00	0.32	0.40	0.50	0.55	0.57	0.40	0.38	0.49	0.35	0.15	0.13	0.00
VELOCITY.8-2(f/s)	0.00	0.35	0.40	0.50	0.55	0.58	0.40	0.38	0.48	0.35	0.15	0.12	0.00
MEAN VEL.8 (f/s)	0.00	0.34	0.40	0.50	0.55	0.58	0.40	0.38	0.49	0.35	0.15	0.13	0.00
MEAN VEL (f/s)	0.00	0.34	0.40	0.50	0.55	0.58	0.40	0.38	0.49	0.35	0.15	0.13	0.00
MEAN VEL (m/s)	0.00	0.102	0.122	0.152	0.168	0.175	0.122	0.116	0.148	0.107	0.046	0.038	0.000
L/MEAN DEPTH (m)	0.000	0.365	0.783	0.800	0.793	0.798	0.770	0.723	0.703	0.663	0.613	0.510	-
L/MEAN WIDTH (m)	0.00	0.10	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	-
L/SEC. AREA (m2)	0.00	0.04	1.57	1.60	1.59	1.60	1.54	1.45	1.41	1.33	1.23	1.02	-
R/MEAN DEPTH (m)	0.000	0.748	0.800	0.798	0.793	0.790	0.748	0.708	0.688	0.638	0.570	0.240	-
R/MEAN WIDTH (m)	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	4.00	-
R/SEC. AREA (m2)	0.00	1.50	1.60	1.60	1.59	1.58	1.50	1.42	1.38	1.28	1.14	0.96	-
S/AREA (m2)	0.00	1.53	3.17	3.20	3.17	3.18	3.04	2.86	2.78	2.60	2.37	1.98	-
TOTAL AREA (m2)	0.0	1.5	4.7	7.9	11.1	14.3	20.5	23.3	26.1	28.7	31.1	33.1	-
S/DISCHARGE(m3/s)	0.00	0.16	0.39	0.49	0.53	0.56	0.37	0.33	0.41	0.28	0.11	0.08	-
TOTAL DIS. (m3/s)	0.00	0.16	0.54	1.03	2.05	2.60	2.97	3.31	3.72	3.99	4.10	4.18	-
WATER LEVEL (f)	1.82	WATER LEVEL (m) : 0.55											
TOTAL DISCHARGE	4.18	MEAN VELOCITY(m/s) : 0.13											

ALL OF SECTION ARE APPLIED 0.6 DEPTH METHOD.

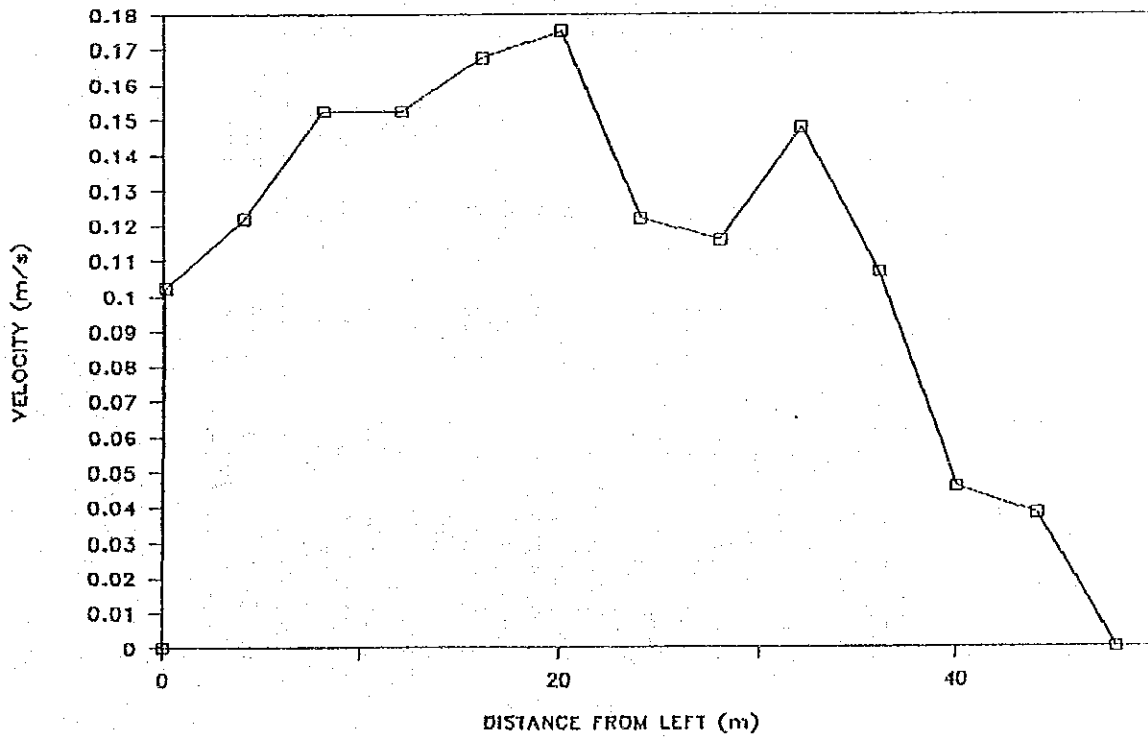
WATER DEPTH (4-050)

16/SEP/91



VELOCITY (4-050)

16/SEP/91

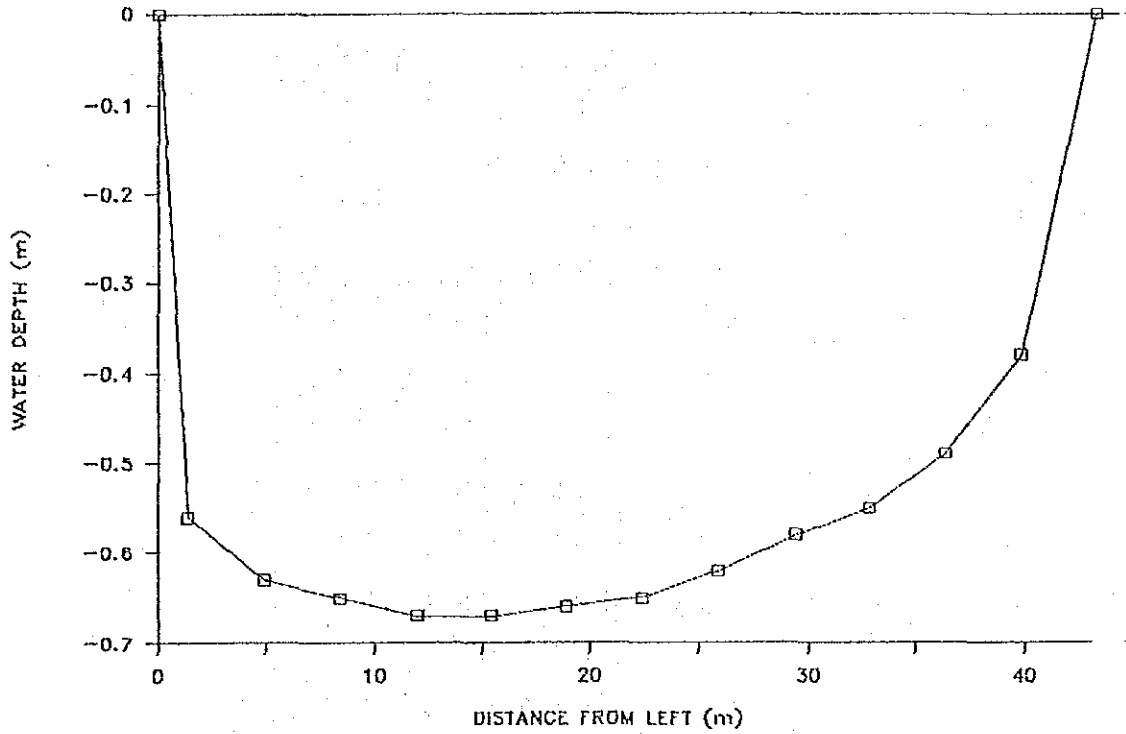


FLOW MEASUREMENT ST. : 4-050 RAGLAM FARM 18/OCT/91

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11	NO-12	NO-R
WATER DEPTH (m)	0.00	0.56	0.63	0.65	0.67	0.67	0.65	0.62	0.58	0.55	0.49	0.38	0.00
SE/WIDTH (m)	0.00	1.40	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
TOTAL SE/WIDTH(m)	0.00	1.40	4.90	8.40	11.90	15.40	18.90	22.40	25.90	29.40	32.90	36.40	43.40
VELOCITY.2-1(f/s)	0.00	-	-	-	-	-	-	-	-	-	-	-	0.00
VELOCITY.2-2(f/s)	0.00	-	-	-	-	-	-	-	-	-	-	-	0.00
MEAN VEL.2 (f/s)	0.00	-	-	-	-	-	-	-	-	-	-	-	0.00
VELOCITY.8-1(f/s)	0.00	0.10	0.23	0.22	0.20	0.23	0.20	0.18	0.25	0.10	0.00	0.00	0.00
VELOCITY.8-2(f/s)	0.00	0.10	0.23	0.22	0.20	0.20	0.20	0.19	0.25	0.10	0.00	0.00	0.00
MEAN VEL.8 (f/s)	0.00	0.10	0.23	0.22	0.20	0.20	0.20	0.19	0.25	0.10	0.00	0.00	0.00
MEAN VEL (f/s)	0.00	0.10	0.23	0.22	0.20	0.20	0.20	0.19	0.25	0.10	0.00	0.00	0.00
MEAN VEL (m/s)	0.00	0.030	0.070	0.067	0.061	0.072	0.061	0.056	0.076	0.030	0.000	0.000	0.000
L/MEAN DEPTH (m)	0.000	0.280	0.613	0.645	0.665	0.670	0.663	0.628	0.590	0.558	0.505	0.408	-
L/MEAN WIDTH (m)	0.00	1.40	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	-
L/SEC. AREA (m2)	0.00	0.39	1.07	1.13	1.16	1.17	1.16	1.14	1.03	0.98	0.88	0.71	-
R/MEAN DEPTH (m)	0.000	0.578	0.635	0.655	0.670	0.668	0.658	0.643	0.610	0.573	0.463	0.190	-
R/MEAN WIDTH (m)	0.00	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	-
R/SEC. AREA (m2)	0.00	1.01	1.11	1.15	1.17	1.17	1.15	1.12	1.07	1.00	0.81	0.67	-
S/AREA (m2)	0.00	1.40	2.18	2.28	2.34	2.34	2.31	2.27	2.03	1.91	1.69	1.38	-
TOTAL AREA (m2)	0.0	1.4	3.6	5.9	8.2	10.5	12.8	15.1	17.3	19.3	21.2	24.3	-
S/DISCHARGE(m3/s)	0.00	0.04	0.15	0.15	0.14	0.17	0.14	0.14	0.16	0.16	0.06	0.00	-
TOTAL DIS. (m3/s)	0.00	0.04	0.20	0.35	0.49	0.66	0.80	0.94	1.06	1.21	1.27	1.27	-
WATER LEVEL (f) :	1.46	WATER LEVEL (m) : 0.45											
TOTAL DISCHARGE :	1.27	MEAN VELOCITY(m/s) : 0.05											
ALL OF SECTION ARE APPLIED 0.6 DEPTH METHOD.													

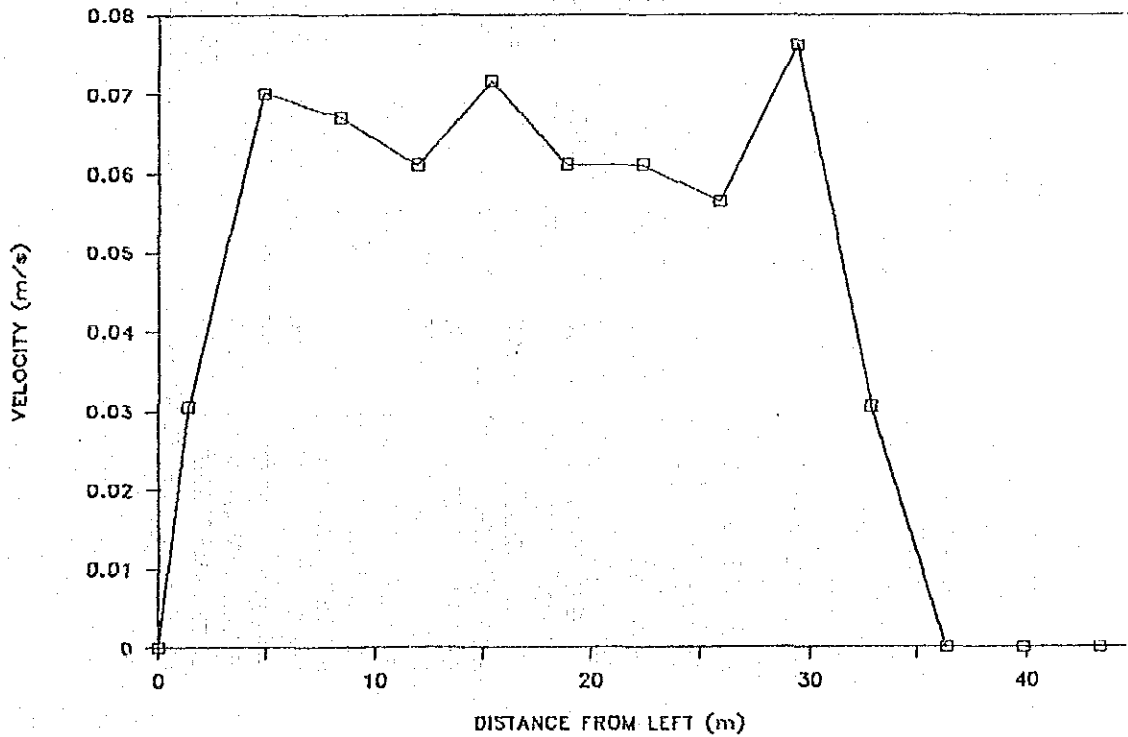
WATER DEPTH (4-050)

18/OCT/91



VELOCITY (4-050)

18/OCT/91



ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11	NO-R	
WATER DEPTH (m)	0.00	0.32	0.67	0.69	0.67	0.68	0.70	0.68	0.65	0.60	0.60	0.54	0.00
SE/WIDTH (m)	0.00	0.80	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
TOTAL SE/WIDTH(m)	0.00	0.80	4.80	8.80	12.80	16.80	20.80	24.80	28.80	32.80	36.80	40.80	44.80
VELOCITY.2-1(f/s)	0.00	0.00	-	-	-	-	-	-	-	-	-	-	0.00
VELOCITY.2-2(f/s)	0.00	0.00	-	-	-	-	-	-	-	-	-	-	0.00
MEAN VEL.2 (f/s)	0.00	0.00	-	-	-	-	-	-	-	-	-	-	0.00
VELOCITY.8-1(f/s)	0.00	0.00	0.20	0.25	0.40	0.40	0.30	0.30	0.20	0.20	0.30	0.00	0.00
VELOCITY.8-2(f/s)	0.00	0.00	0.20	0.25	0.40	0.40	0.30	0.30	0.20	0.20	0.20	0.00	0.00
MEAN VEL.8 (f/s)	0.00	0.00	0.20	0.25	0.40	0.40	0.30	0.30	0.20	0.20	0.25	0.00	0.00
MEAN VEL (f/s)	0.00	0.00	0.20	0.25	0.40	0.40	0.30	0.30	0.20	0.20	0.25	0.00	0.00
MEAN VEL (m/s)	0.00	0.000	0.061	0.076	0.122	0.122	0.091	0.091	0.061	0.061	0.076	0.000	0.000
L/MEAN DEPTH (m)	0.000	0.160	0.583	0.685	0.675	0.678	0.695	0.685	0.658	0.613	0.600	0.555	-
L/MEAN WIDTH (m)	0.00	0.80	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	-
L/SEC. AREA (m2)	0.00	0.13	1.17	1.37	1.35	1.36	1.39	1.37	1.32	1.23	1.20	1.11	-
R/MEAN DEPTH (m)	0.000	0.408	0.675	0.685	0.673	0.685	0.695	0.673	0.638	0.600	0.585	0.270	-
R/MEAN WIDTH (m)	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	4.00	-
R/SEC. AREA (m2)	0.00	0.82	1.35	1.37	1.35	1.37	1.39	1.35	1.28	1.20	1.17	1.08	-
S/AREA (m2)	0.00	0.94	2.52	2.74	2.70	2.73	2.78	2.72	2.59	2.43	2.37	2.19	-
TOTAL AREA (m2)	0.0	0.9	3.5	6.2	8.9	11.6	14.4	17.1	19.7	22.1	24.5	26.7	-
S/DISCHARGE(m3/s)	0.00	0.00	0.15	0.21	0.33	0.33	0.25	0.25	0.16	0.15	0.18	0.00	-
TOTAL DIS. (m3/s)	0.00	0.00	0.15	0.36	0.69	1.02	1.28	1.53	1.68	1.83	2.01	2.01	-

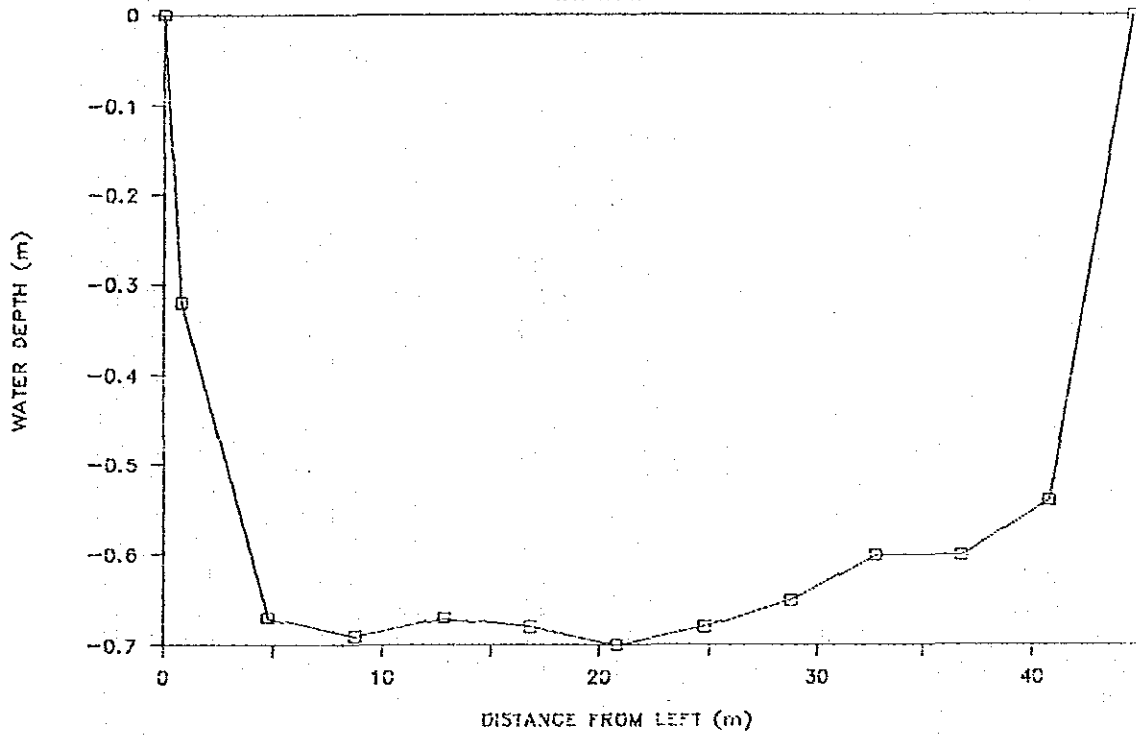
WATER LEVEL (f) : 1.47 WATER LEVEL (m) : 0.45

TOTAL DISCHARGE : 2.01 MEAN VELOCITY(m/s) : 0.08

NOTE : ALL OF SECTIONS ARE APPLIED 0.6 DEPTH METHOD.

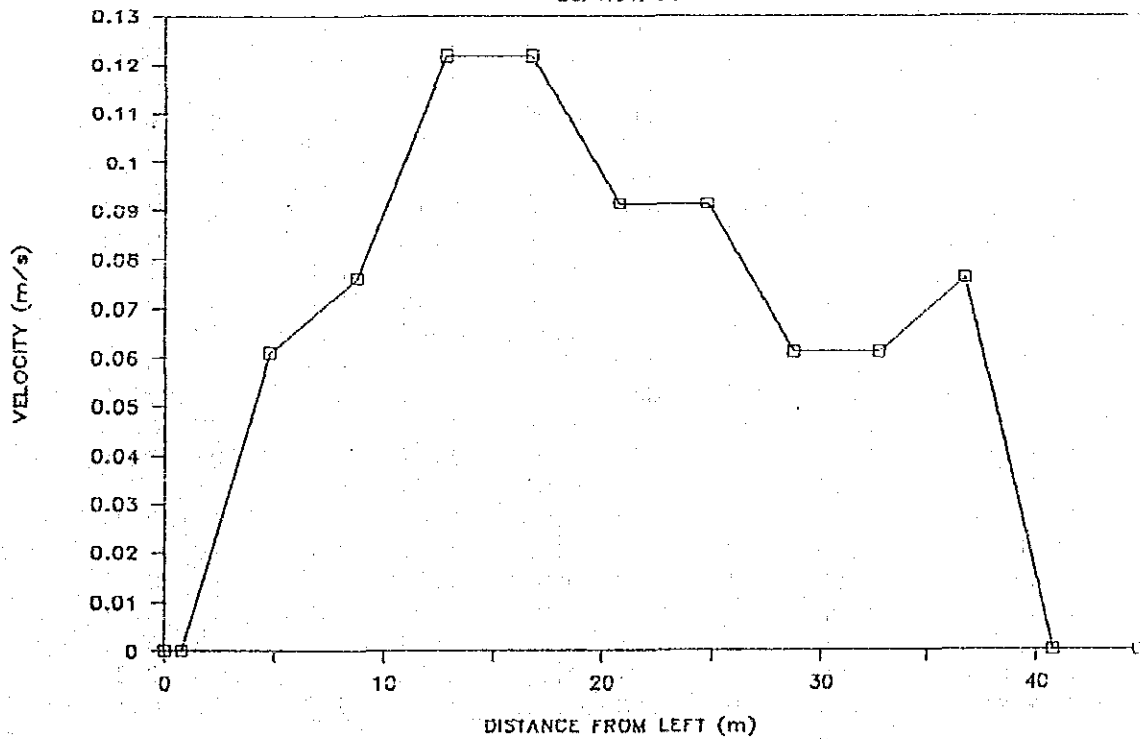
WATER DEPTH (4-050)

25/NOV/91



VELOCITY (4-050)

25/NOV/91



LIST OF FLOW MEASUREMENT

ST.: 4-120 MWAMBASHI

NO.	DATE	-----[Feet - Second]-----				++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
1	17-Nov-58	N/A	28	18	1.53	N/A	0.8	2	0.47
2	29-Oct-59	2.14	20	105	0.19	0.65	0.6	10	0.06
3	11-Nov-59	2.18	21	105	0.20	0.66	0.6	10	0.06
4	25-Nov-59	2.23	23	109	0.21	0.68	0.7	10	0.06
5	11-Dec-59	2.45	19	133	0.15	0.75	0.5	12	0.05
6	14-Dec-59	2.59	39	129	0.30	0.79	1.1	12	0.09
7	16-Dec-59	2.85	48	136	0.35	0.87	1.4	13	0.11
8	22-Dec-59	3.21	65	143	0.46	0.98	1.8	13	0.14
9	30-Dec-59	4.39	128	188	0.68	1.34	3.6	17	0.21
10	05-Jan-60	5.40	186	220	0.84	1.65	5.3	20	0.26
11	21-Jan-60	3.00	55	138	0.40	0.91	1.6	13	0.12
12	04-Feb-60	5.98	254	260	0.98	1.82	7.2	24	0.30
13	15-Feb-60	9.55	559	490	1.14	2.91	15.8	46	0.35
14	24-Feb-60	10.84	842	653	1.29	3.30	23.8	61	0.39
15	18-Mar-60	11.46	1130	793	1.42	3.49	32.0	74	0.43
16	29-Mar-60	9.02	524	425	1.23	2.75	14.8	39	0.37
17	06-May-60	5.28	213	225	0.95	1.61	6.0	21	0.29
18	27-May-60	4.35	135	192	0.70	1.33	3.8	18	0.21
19	14-Jun-60	4.11	117	182	0.64	1.25	3.3	17	0.20
20	27-Jun-60	3.84	102	172	0.59	1.17	2.9	16	0.18
21	13-Jul-60	3.65	93	167	0.56	1.11	2.6	16	0.17
22	21-Jul-60	3.56	83	156	0.53	1.09	2.4	14	0.16
23	28-Jul-60	3.41	70	131	0.53	1.04	2.0	12	0.16
24	16-Aug-60	3.24	62	144	0.43	0.99	1.8	13	0.13
25	24-Aug-60	3.13	60	143	0.42	0.95	1.7	13	0.13
26	10-Oct-60	2.50	24	123	0.20	0.76	0.7	11	0.06
27	10-Nov-60	2.28	27	109	0.24	0.69	0.8	10	0.07
28	06-Dec-60	2.48	25	120	0.21	0.76	0.7	11	0.06
29	21-Dec-60	4.78	164	202	0.81	1.46	4.6	19	0.25
30	05-Jan-61	5.44	225	227	0.99	1.66	6.4	21	0.30
31	11-Jan-61	5.31	214	216	0.99	1.62	6.1	20	0.30
32	19-Jan-61	4.96	183	208	0.88	1.51	5.2	19	0.27
33	26-Jan-61	6.15	272	269	1.01	1.87	7.7	25	0.31
34	15-Feb-61	8.88	470	416	1.13	2.71	13.3	39	0.34
35	22-Feb-61	11.11	1040	713	1.46	3.39	29.4	66	0.45
36	01-Mar-61	10.36	788	638	1.23	3.16	22.3	59	0.37
37	22-Mar-61	10.46	835	640	1.30	3.19	23.6	59	0.40
38	11-Apr-61	8.67	518	435	1.19	2.64	14.7	40	0.36
39	19-Apr-61	8.96	518	449	1.15	2.73	14.7	42	0.35
40	26-Apr-61	7.45	398	350	1.15	2.27	11.3	33	0.35
41	10-May-61	6.09	276	264	1.05	1.86	7.8	25	0.32
42	16-May-61	5.82	248	249	1.00	1.77	7.0	23	0.30
43	29-May-61	5.16	219	227	0.96	1.57	6.2	21	0.29
44	07-Jun-61	4.83	185	207	0.90	1.47	5.2	19	0.27
45	20-Jun-61	4.60	163	198	0.82	1.40	4.6	18	0.25
46	26-Jun-61	4.50	164	198	0.82	1.37	4.6	18	0.25
47	12-Jul-61	4.22	145	181	0.80	1.29	4.1	17	0.24
48	18-Jul-61	4.08	131	174	0.75	1.24	3.7	16	0.23
49	24-Jul-61	4.00	125	172	0.73	1.22	3.5	16	0.22
50	09-Aug-61	3.70	99	158	0.62	1.13	2.8	15	0.19

LIST OF FLOW MEASUREMENT

ST.: 4-120 MWAMBASHI

NO.	DATE	-----[Feet - Second]-----				+++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
51	14-Aug-61	3.64	100	155	0.64	1.11	2.8	14	0.20
52	22-Aug-61	3.58	99	158	0.63	1.09	2.8	15	0.19
53	12-Sep-61	3.18	73	140	0.52	0.97	2.1	13	0.16
54	26-Sep-61	2.91	59	138	0.44	0.89	1.7	13	0.13
55	05-Oct-61	2.78	53	129	0.41	0.85	1.5	12	0.12
56	10-Oct-61	2.72	46	127	0.36	0.83	1.3	12	0.11
57	17-Oct-61	2.62	39	120	0.32	0.80	1.1	11	0.10
58	31-Oct-61	2.60	37	121	0.30	0.79	1.0	11	0.09
59	08-Nov-61	2.85	52	132	0.39	0.87	1.5	12	0.12
60	15-Nov-61	4.92	182	213	0.86	1.50	5.2	20	0.26
61	21-Nov-61	5.77	236	252	0.94	1.76	6.7	23	0.29
62	08-Dec-61	5.68	242	239	1.02	1.73	6.9	22	0.31
63	18-Dec-61	6.91	338	307	1.10	2.11	9.6	29	0.34
64	28-Dec-61	8.09	444	375	1.18	2.47	12.6	35	0.36
65	03-Jan-62	8.40	477	391	1.22	2.56	13.5	36	0.37
66	11-Jan-62	9.06	559	452	1.23	2.76	15.8	42	0.37
67	22-Jan-62	7.39	364	328	1.13	2.25	10.3	30	0.34
68	31-Jan-62	8.58	485	406	1.19	2.62	13.7	38	0.36
69	06-Feb-62	11.26	1130	753	1.50	3.43	32.0	70	0.46
70	20-Feb-62	9.91	695	532	1.28	3.02	19.7	49	0.39
71	02-Mar-62	11.83	1450	846	1.71	3.61	41.1	79	0.52
72	15-Mar-62	11.09	981	728	1.35	3.38	27.8	68	0.41
73	18-Mar-62	12.36	1160	941	1.24	3.77	32.8	87	0.38
74	11-Apr-62	12.57	1130	998	1.14	3.83	32.0	93	0.35
75	17-Apr-62	10.66	796	660	1.21	3.25	22.5	61	0.37
76	04-May-62	10.30	794	617	1.28	3.14	22.5	57	0.39
77	15-May-62	9.19	559	466	1.20	2.80	15.8	43	0.37
78	29-May-62	8.14	479	381	1.23	2.48	13.6	35	0.37
79	07-Jun-62	7.64	412	352	1.17	2.33	11.7	33	0.36
80	14-Jan-63	10.48	800	673	1.19	3.19	22.7	63	0.36
81	05-Feb-63	11.07	1130	766	1.47	3.37	32.0	71	0.45
82	11-Feb-63	11.10	1130	762	1.48	3.38	32.0	71	0.45
83	21-Feb-63	11.13	1210	748	1.61	3.39	34.3	69	0.49
84	01-Mar-63	10.91	1030	700	1.47	3.33	29.2	65	0.45
85	11-Mar-63	10.94	1060	715	1.48	3.33	30.0	66	0.45
86	16-Mar-63	10.82	994	695	1.43	3.30	28.1	65	0.44
87	27-Mar-63	10.57	854	673	1.27	3.22	24.2	63	0.39
88	29-Mar-63	10.22	781	637	1.23	3.12	22.1	59	0.37
89	31-Aug-71	3.72	92	151	0.61	1.13	2.6	14	0.19
90	15-Nov-71	3.74	103	142	0.73	1.14	2.9	13	0.22
91	03-Dec-71	3.70	124	170	0.73	1.13	3.5	16	0.22
92	19-Jan-72	8.50	262	212	1.24	2.59	7.4	20	0.38
93	27-Jan-72	8.80	424	408	1.04	2.68	12.0	38	0.32
94	16-Feb-72	8.47	427	404	1.06	2.58	12.1	38	0.32
95	02-Mar-72	9.41	533	505	1.06	2.87	15.1	47	0.32
96	11-Apr-72	8.92	429	434	0.99	2.72	12.1	40	0.30
97	12-May-72	6.65	297	299	0.99	2.03	8.4	28	0.30
98	12-Jun-72	5.30	205	241	0.85	1.62	5.8	22	0.26
99	01-Sep-72	3.96	99	170	0.57	1.21	2.8	16	0.17
100	06-Oct-72	3.22	63	117	0.54	0.98	1.8	11	0.16

LIST OF FLOW MEASUREMENT

ST.: 4-120 MWAMBASHI

NO.	DATE	----[Feet - Second]-----				++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
101	13-Nov-72	3.11	69	131	0.53	0.95	2.0	12	0.16
102	26-Jan-73	4.11	103	167	0.61	1.25	2.9	16	0.19
103	22-May-73	3.57	81	115	0.70	1.09	2.3	11	0.21
104	12-Jun-73	3.31	75	120	0.63	1.01	2.1	11	0.19
105	25-Jun-73	3.29	55	108	0.50	1.00	1.6	10	0.15
106	05-Jul-73	3.23	55	133	0.41	0.98	1.6	12	0.12
107	20-Jul-73	3.18	55	129	0.43	0.97	1.6	12	0.13
108	01-Aug-73	3.11	63	137	0.46	0.95	1.8	13	0.14
109	27-Aug-73	2.89	31	83	0.37	0.88	0.9	8	0.11
110	13-Sep-73	2.61	39	121	0.32	0.80	1.1	11	0.10
111	17-Sep-73	2.59	35	105	0.33	0.79	1.0	10	0.10
112	24-Sep-73	2.50	32	104	0.31	0.76	0.9	10	0.09
113	01-Oct-73	2.50	39	105	0.37	0.76	1.1	10	0.11
114	09-Oct-73	2.52	37	106	0.35	0.77	1.0	10	0.11
115	15-Oct-73	2.41	33	102	0.32	0.73	0.9	9	0.10
116	22-Oct-73	2.36	33	99	0.33	0.72	0.9	9	0.10
117	29-Oct-73	2.28	20	62	0.33	0.69	0.6	6	0.10
118	12-Nov-73	3.00	48	121	0.40	0.91	1.4	11	0.12
119	19-Nov-73	2.84	43	125	0.34	0.87	1.2	12	0.10
120	26-Nov-73	2.61	44	126	0.33	0.80	1.2	12	0.10
121	03-Dec-73	2.66	37	104	0.36	0.81	1.0	10	0.11
122	12-Dec-73	3.70	87	144	0.60	1.13	2.5	13	0.18
123	19-Dec-73	3.21	75	165	0.55	0.98	2.1	15	0.17
124	16-Jan-74	6.60	251	281	0.89	2.01	7.1	26	0.27
125	30-Jan-74	7.80	403	364	1.11	2.38	11.4	34	0.34
126	07-Feb-74	9.10	489	458	1.07	2.77	13.8	43	0.33
127	11-Feb-74	7.41	361	341	1.06	2.26	10.2	32	0.32
128	05-Mar-74	8.91	519	419	1.24	2.72	14.7	39	0.38
129	11-Mar-74	9.00	517	399	1.30	2.74	14.6	37	0.40
130	18-Apr-74	6.70	289	272	1.06	2.04	8.2	25	0.32
131	09-May-74	5.23	171	195	0.88	1.59	4.8	18	0.27
132	27-May-74	5.10	209	219	0.95	1.55	5.9	20	0.29
133	10-Jun-74	4.51	131	169	0.78	1.37	3.7	16	0.24
134	17-Jun-74	4.39	112	143	0.78	1.34	3.2	13	0.24
135	15-Jul-74	4.20	120	166	0.72	1.28	3.4	15	0.22
136	22-Aug-74	3.60	90	149	0.60	1.10	2.5	14	0.18
137	02-Dec-74	4.11	99	152	0.65	1.25	2.8	14	0.20
138	19-Dec-74	4.94	121	174	0.70	1.51	3.4	16	0.21
139	17-Feb-75	9.76	534	510	1.05	2.97	15.1	47	0.32
140	19-Jun-75	5.37	214	232	0.93	1.64	6.1	22	0.28
141	25-Jul-75	4.60	127	200	0.63	1.40	3.6	19	0.19
142	20-Aug-75	4.30	122	177	0.69	1.31	3.5	16	0.21
143	25-Sep-75	3.47	81	147	0.55	1.06	2.3	14	0.17
144	23-Oct-75	2.91	57	126	0.45	0.89	1.6	12	0.14
145	01-Dec-75	3.66	59	144	0.41	1.12	1.7	13	0.12
146	21-Jan-76	8.71	442	422	1.05	2.65	12.5	39	0.32
147	02-Feb-76	10.02	557	533	1.04	3.05	15.8	50	0.32
148	19-Feb-76	10.56	537	514	1.04	3.22	15.2	48	0.32
149	01-Mar-76	10.93	891	851	1.05	3.33	25.2	79	0.32
150	22-Mar-76	12.05	1061	740	1.43	3.67	30.0	69	0.44

LIST OF FLOW MEASUREMENT

ST.: 4-120 MWAMBASHI

NO.	DATE	-----[Feet - Second]-----				+++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
151	23-Mar-76	11.98	1190	813	1.46	3.65	33.7	76	0.45
152	02-Apr-76	11.55	1183	953	1.23	3.52	33.5	89	0.37
153	13-Apr-76	13.00	1590	954	1.67	3.96	45.0	89	0.51
154	04-May-76	10.45	841	688	1.22	3.19	23.8	64	0.37
155	24-May-76	8.95	514	463	1.11	2.73	14.6	43	0.34
156	28-Jun-76	7.07	312	335	0.93	2.15	8.8	31	0.28
157	26-Jul-76	6.25	207	321	0.64	1.91	5.9	30	0.20
158	22-Sep-76	4.54	142	214	0.66	1.38	4.0	20	0.20
159	26-Oct-76	3.93	104	163	0.64	1.20	2.9	15	0.20
160	22-Nov-76	4.46	129	187	0.69	1.36	3.7	17	0.21
161	27-Dec-76	7.26	310	335	0.93	2.21	8.8	31	0.28
162	04-Jan-77	7.42	342	366	0.94	2.26	9.7	34	0.29
163	20-Jan-77	7.80	324	363	0.89	2.38	9.2	34	0.27
164	10-Feb-77	9.41	531	501	1.06	2.87	15.0	47	0.32
165	09-Mar-77	10.70	738	750	0.98	3.26	20.9	70	0.30
166	14-Mar-77	11.00	960	735	1.31	3.35	27.2	68	0.40
167	21-Apr-77	7.80	270	327	0.83	2.38	7.6	30	0.25
168	09-May-77	6.23	231	297	0.78	1.90	6.5	28	0.24
169	14-Jun-77	5.05	170	244	0.69	1.54	4.8	23	0.21
170	08-Sep-77	3.98	67	110	0.61	1.21	1.9	10	0.19
171	20-Sep-77	3.01	57	119	0.48	0.92	1.6	11	0.15
172	13-Oct-77	3.64	61	134	0.46	1.11	1.7	12	0.14
173	01-Nov-77	2.57	31	71	0.44	0.78	0.9	7	0.13
174	14-Jul-78	6.33	249	262	0.95	1.93	7.1	24	0.29
175	14-Oct-80	2.88	44	100	0.44	0.88	1.2	9	0.13
176	17-Nov-80	3.39	52	84	0.62	1.03	1.5	8	0.19
177	05-Dec-80	4.11	68	90	0.75	1.25	1.9	8	0.23
178	07-Jan-81	5.22	89	112	0.80	1.59	2.5	10	0.24
179	19-Feb-81	9.34	336	292	1.15	2.85	9.5	27	0.35
180	13-Mar-81	11.24	776	457	1.70	3.43	22.0	42	0.52
181	22-Oct-81	2.60	49	18	2.71	0.79	1.4	2	0.83
182	12-Nov-81	2.76	57	64	0.89	0.84	1.6	6	0.27
183	18-Dec-81	4.70	137	135	1.02	1.43	3.9	13	0.31
184	11-Oct-82	2.40	43	40	1.05	0.73	1.2	4	0.32
185	24-Nov-82	4.02	80	99	0.82	1.23	2.3	9	0.25
186	10-Aug-83	3.22	63	59	1.07	0.98	1.8	5	0.33
187	08-Sep-83	2.70	57	49	2.20	0.82	1.6	5	0.67
188	21-Jun-84	3.03	65	60	1.08	0.92	1.8	6	0.33
189	09-Nov-84	2.50	27	43	0.85	0.76	0.8	4	0.26
190	18-Jan-85	9.64	511	514	0.98	2.94	14.5	48	0.30
191	22-Apr-85	7.30	293	319	0.92	2.23	8.3	30	0.28
192	19-Jun-85	4.88	112	186	0.59	1.49	3.2	17	0.18
193	30-Apr-87	5.80	108	109	0.99	1.77	3.1	10	0.30
194	26-Jan-88	8.40	482	358	1.35	2.56	13.6	33	0.41
195	13-Dec-88	4.43	147	173	0.85	1.35	4.2	16	0.26
196	22-Feb-90	7.87	418	364	1.15	2.40	11.8	34	0.35
197	13-Jun-90	3.44	111	105	1.05	1.05	3.1	10	0.32
198	12-Jul-90	2.99	62	86	0.72	0.91	1.8	8	0.22
199	16-Aug-90	2.85	46	78	0.59	0.87	1.3	7	0.18
200	09-Oct-90	2.30	23	33	0.69	0.70	0.6	3	0.21

LIST OF FLOW MEASUREMENT

ST.: 4-120 MWAMBASHI

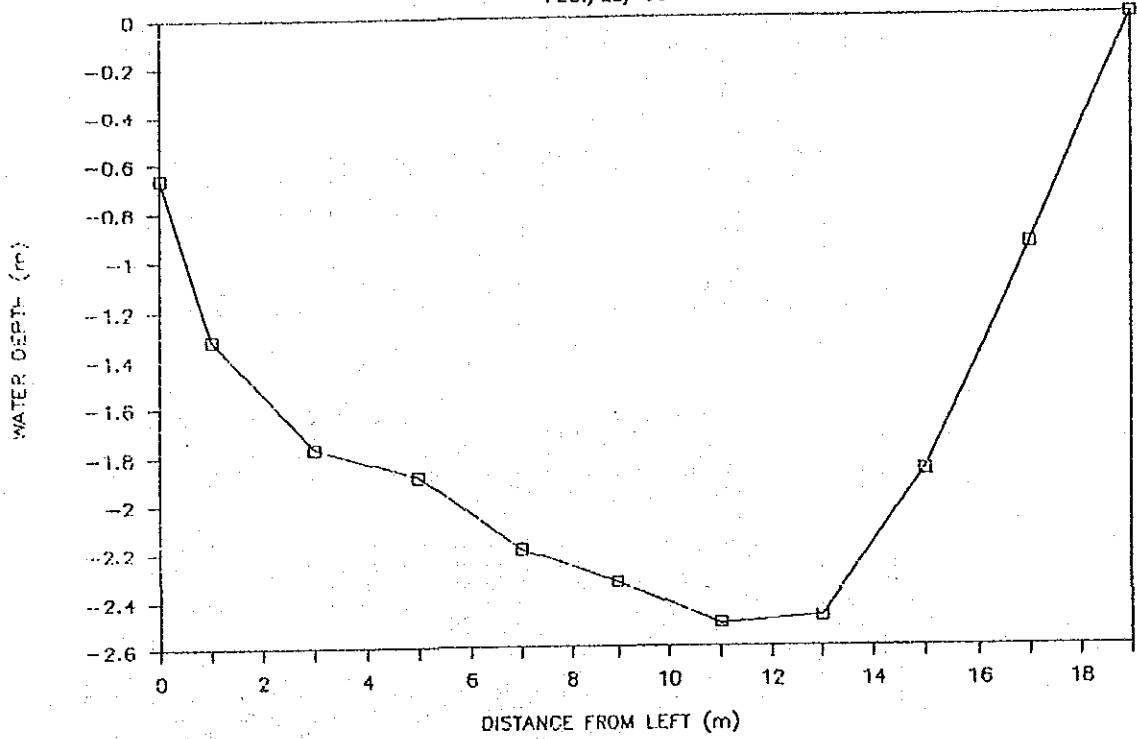
NO.	DATE	-----[Feet - Second]-----				+++++[Meter - Second]++++			
		H (f)	Q (f3/s)	A (f2)	V (f/s)	H (m)	Q (m3/s)	A (m2)	V (m/s)
201	03-Nov-90	2.13	21	31	0.69	0.65	0.6	3	0.21
202	21-Dec-90	3.35	97	87	1.12	1.02	2.7	8	0.34
203	11-Jan-91	6.20	216	227	0.95	1.89	6.1	21	0.29
204	13-Feb-91	9.28	531	506	1.05	2.83	15.1	47	0.32
205	07-Mar-91	8.50	483	446	1.08	2.59	13.7	41	0.33
206	27-Aug-91	4.40	77	93	0.82	1.34	2.2	9	0.25
207	17-Sep-91	2.89	54	79	0.69	0.88	1.5	7	0.21
208	19-Oct-91	3.25	61	84	0.72	0.99	1.7	8	0.22
209	24-Nov-91	2.79	61	72	0.85	0.85	1.7	7	0.26

[Note] H:Water Level, Q:Discharge, A:Discharge Area, V:Velocity

FLOW MEASUREMENT ST. : 4-120 MWAMBASHI		FEB/22/90									
ITEMS	NO L	NO 1	NO 2	NO 3	NO 4	NO 5	NO 6	NO 7	NO 8	NO 9	NO R
WATER DEPTH (m)	0.66	1.32	1.77	1.89	2.19	2.33	2.50	2.47	1.87	0.94	0.00
SE/WIDTH (m)	0.00	1.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	1.00	3.00	5.00	7.00	9.00	11.00	13.00	15.00	17.00	19.00
VELOCITY.2 1(f/s)	0.00	0.15	0.72	1.10	1.25	1.60	1.85	1.45	1.50	0.70	0.00
VELOCITY.2 2(f/s)	0.00	0.15	0.75	1.08	1.30	1.62	1.85	1.45	1.50	0.70	0.00
MEAN VEL.2 (f/s)	0.00	0.15	0.74	1.09	1.28	1.61	1.85	1.45	1.50	0.70	0.00
VELOCITY.3 1(f/s)	0.00	0.20	0.30	0.75	0.95	1.70	1.35	1.27	1.20	0.30	0.00
VELOCITY.3 2(f/s)	0.00	0.19	0.30	0.76	0.95	1.65	1.40	1.29	1.25	0.30	0.00
MEAN VEL.3 (f/s)	0.00	0.20	0.30	0.76	0.95	1.68	1.38	1.28	1.23	0.30	0.00
MEAN VEL (f/s)	0.000	0.173	0.518	0.923	1.113	1.643	1.613	1.365	1.363	0.500	0.000
MEAN VEL (m/s)	0.000	0.053	0.153	0.281	0.339	0.501	0.491	0.416	0.415	0.152	0.000
L/MEAN DEPTH (m)	0.000	0.990	1.658	1.860	2.115	2.295	2.458	2.478	2.020	1.173	
L/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	
L/SEC. AREA (m2)	0.00	0.99	1.66	1.86	2.12	2.30	2.46	2.48	2.02	1.17	
R/MEAN DEPTH (m)	0.000	1.433	1.800	1.965	2.225	2.373	2.493	2.320	1.638	0.470	
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	
R/SEC. AREA (m2)	0.00	1.43	1.80	1.97	2.23	2.37	2.49	2.32	1.64	0.94	
S/AREA (m2)	0.00	2.42	3.46	3.83	4.34	4.67	4.95	4.80	3.66	2.11	
TOTAL AREA (m2)	0.0	2.4	5.9	9.7	14.0	18.7	23.7	23.5	32.1	34.2	
S/DISCHARGE(m3/s)	0.00	0.13	0.55	1.08	1.47	2.34	2.43	2.00	1.52	0.32	
TOTAL DIS. (m3/s)	0.00	0.13	0.67	1.75	3.22	5.56	7.99	9.99	11.50	11.83	
=====											
WATER LEVEL (f) :	7.99	WATER LEVEL (m) : 2.40									
TOTAL DISCHARGE :	11.83	MEAN VELOCITY(m/s) : 0.35									
=====											

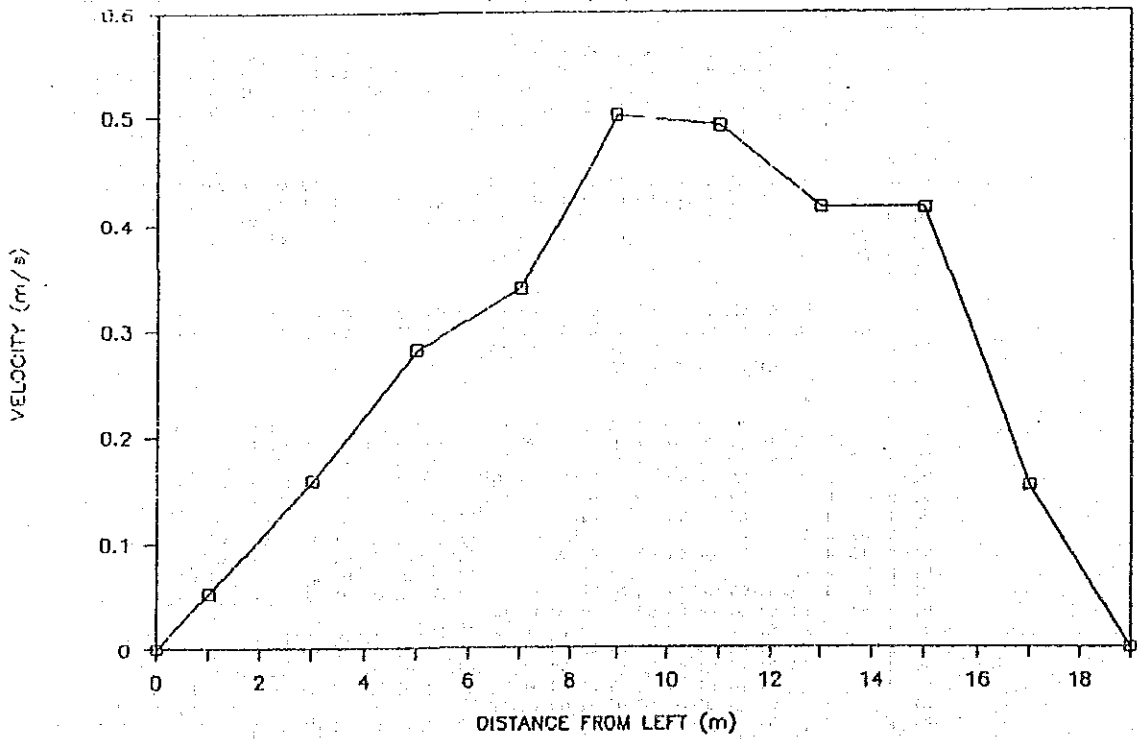
WATER DEPTH (4-120)

FEB./22/'90



VELOCITY (4-120)

FEB./22/'90



FLOW MEASUREMENT ST. : 4-120 MWAMBASHI JUN./13/90

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10
WATER DEPTH (m)	0.00	0.43	0.76	0.94	1.10	0.94	0.83	0.80	0.82	0.74	0.63
SE/WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
TOTAL SE/WIDTH(m)	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00
VELOCITY.2-1(f/s)											
VELOCITY.2-2(f/s)											
MEAN VEL.2 (f/s)											
VELOCITY.8-1(f/s)											
VELOCITY.8-2(f/s)											
MEAN VEL.8 (f/s)											
MEAN VEL (f/s)	0.000	0.810	0.778	1.086	1.138	1.168	1.270	1.270	1.240	1.138	1.066
MEAN VEL (m/s)	0.000	0.247	0.237	0.331	0.347	0.356	0.387	0.387	0.379	0.347	0.325
L/MEAN DEPTH (m)	0.000	0.215	0.578	0.895	1.060	0.980	0.858	0.808	0.815	0.760	0.658
L/MEAN WIDTH (m)	0.00	1.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
L/SEC. AREA (m2)	0.00	0.22	0.34	0.45	0.53	0.49	0.43	0.40	0.41	0.39	0.33
R/MEAN DEPTH (m)	0.000	0.513	0.805	0.980	1.060	0.913	0.823	0.805	0.800	0.713	0.616
R/MEAN WIDTH (m)	0.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
R/SEC. AREA (m2)	0.00	0.26	0.40	0.49	0.53	0.46	0.41	0.40	0.40	0.36	0.31
S/AREA (m2)	0.00	0.47	0.74	0.94	1.06	0.95	0.84	0.81	0.81	0.74	0.63
TOTAL AREA (m2)	0.0	0.5	1.2	2.2	3.2	4.2	5.0	5.8	6.6	7.3	8.0
S/DISCHARGE(m3/s)	0.00	0.12	0.18	0.31	0.37	0.34	0.33	0.31	0.31	0.26	0.21
TOTAL DIS. (m3/s)	0.00	0.12	0.29	0.60	0.97	1.31	1.63	1.94	2.25	2.50	2.71
WATER LEVEL (f)											
WATER LEVEL (m)											
TOTAL DISCHARGE											
MEAN VELOCITY(m/s)											

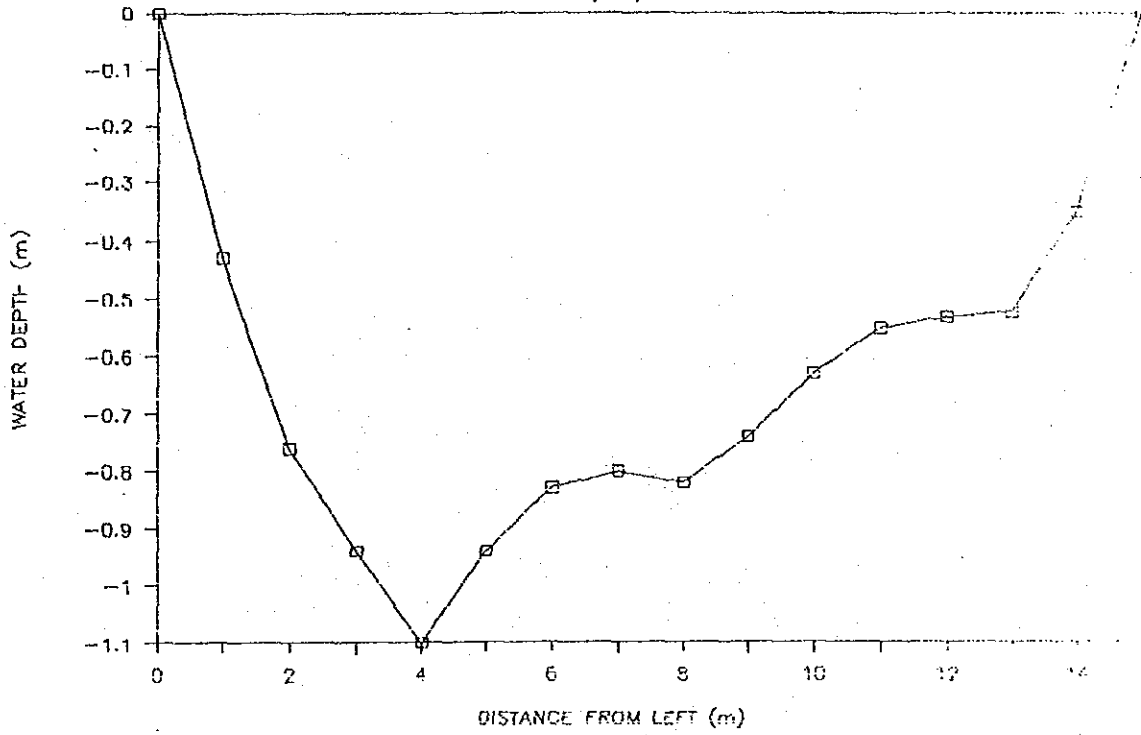
FLOW MEASUREMENT ST. : 4-120 MWAMBASHI JUN./13/90

ITEMS	NO-11	NO-12	NO-13	NO-14	NO-R
WATER DEPTH (m)	0.55	0.53	0.52	0.35	0.00
SE/WIDTH (m)	1.00	1.00	1.00	1.00	1.00
TOTAL SE/WIDTH(m)	11.00	12.00	13.00	14.00	15.00
VELOCITY.2-1(f/s)	--	--	--	--	--
VELOCITY.2-2(f/s)	--	--	--	--	--
MEAN VEL.2 (f/s)	--	--	--	--	--
VELOCITY.8-1(f/s)	--	--	--	--	--
VELOCITY.8-2(f/s)	--	--	--	--	--
MEAN VEL.8 (f/s)	--	--	--	--	--
MEAN VEL (f/s)	0.930	0.930	0.709	0.951	--
MEAN VEL (m/s)	0.253	0.253	0.215	0.107	--
L/MEAN DEPTH (m)	0.570	0.535	0.523	0.393	--
L/MEAN WIDTH (m)	0.50	0.50	0.50	0.50	--
L/SEC. AREA (m2)	0.29	0.27	0.26	0.20	--
R/MEAN DEPTH (m)	0.545	0.528	0.478	0.263	--
R/MEAN WIDTH (m)	0.50	0.50	0.50	0.50	--
R/SEC. AREA (m2)	0.27	0.26	0.24	0.13	--
S/AREA (m2)	0.56	0.53	0.50	0.33	--
TOTAL AREA (m2)	8.5	9.1	9.6	9.9	--
S/DISCHARGE(m3/s)	0.14	0.13	0.11	0.04	--
TOTAL DIS. (m3/s)	2.85	2.99	3.09	3.13	--

WATER LEVEL (f) : 3.45 WATER LEVEL (m) : 1.05
 TOTAL DISCHARGE : 3.13 MEAN VELOCITY(m/s) : 0.32

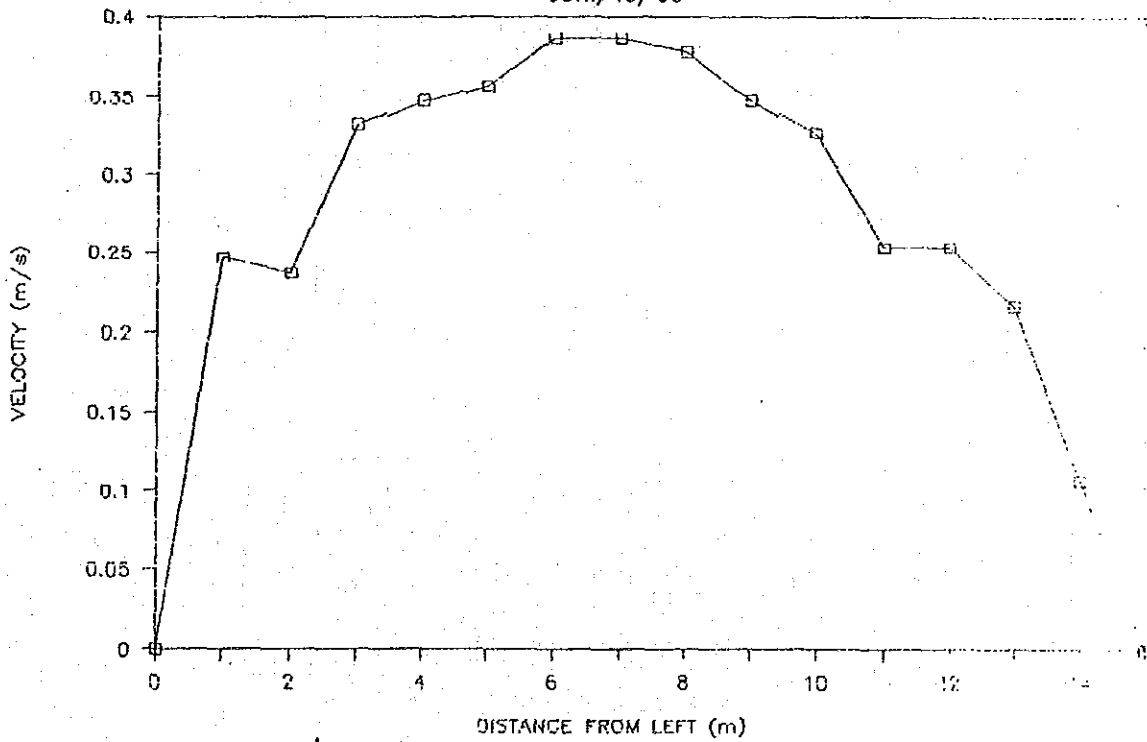
WATER DEPTH (4-120)

JUN./13/'90



VELOCITY (4-120)

JUN./13/'90

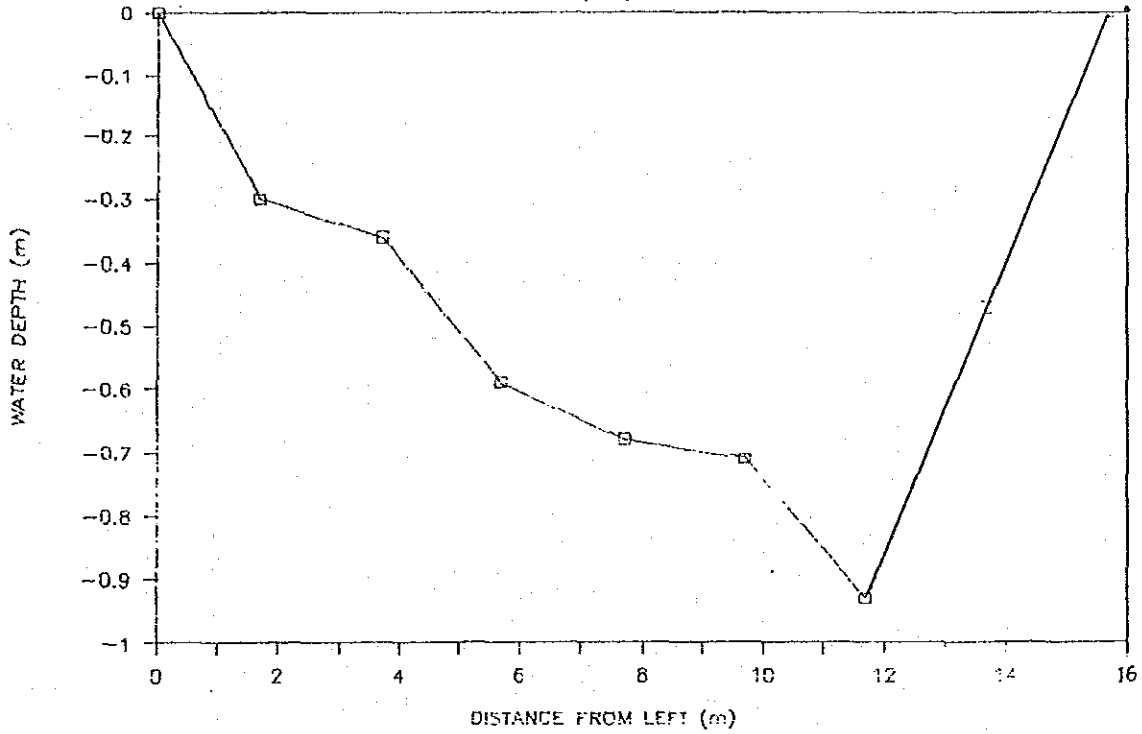


FLOW MEASUREMENT ST. : 4-120 MWAMBASHI JUL./12/'90

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-R
WATER DEPTH (m)	0.00	0.30	0.36	0.59	0.68	0.71	0.93	0.47	0.00
SE/WIDTH (m)	0.00	1.70	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	1.70	3.70	5.70	7.70	9.70	11.70	13.70	15.70
VELOCITY.2-1(f/s)	0.00	0.10	0.90	0.92	1.00	0.72	0.80	0.50	0.00
VELOCITY.2-2(f/s)	0.00	0.10	0.90	0.92	1.00	0.72	0.80	0.50	0.00
MEAN VEL.2 (f/s)	0.00	0.10	0.90	0.92	1.00	0.72	0.80	0.50	0.00
VELOCITY.8-1(f/s)	0.00	0.09	0.85	0.82	0.79	0.70	0.70	0.49	0.00
VELOCITY.8-2(f/s)	0.00	0.09	0.85	0.82	0.79	0.70	0.70	0.49	0.00
MEAN VEL.8 (f/s)	0.00	0.09	0.85	0.82	0.79	0.70	0.70	0.49	0.00
MEAN VEL (f/s)	0.000	0.095	0.875	0.870	0.895	0.710	0.750	0.495	-
MEAN VEL (m/s)	0.000	0.029	0.267	0.265	0.273	0.218	0.229	0.151	-
L/MEAN DEPTH (m)	0.000	0.150	0.345	0.533	0.658	0.703	0.875	0.585	-
L/MEAN WIDTH (m)	0.00	1.70	1.00	1.00	1.00	1.00	1.00	1.00	-
L/SEC. AREA (m2)	0.00	0.26	0.35	0.53	0.66	0.70	0.88	0.59	-
R/MEAN DEPTH (m)	0.000	0.315	0.418	0.613	0.688	0.765	0.815	0.235	-
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	-
R/SEC. AREA (m2)	0.00	0.32	0.42	0.61	0.69	0.77	0.82	0.47	-
S/AREA (m2)	0.00	0.57	0.76	1.15	1.35	1.47	1.69	1.06	-
TOTAL AREA (m2)	0.0	0.6	1.3	2.5	3.8	5.3	7.0	9.0	-
S/DISCHARGE(m3/s)	0.00	0.02	0.20	0.30	0.37	0.32	0.39	0.16	-
TOTAL DIS. (m3/s)	0.00	0.02	0.22	0.52	0.89	1.21	1.59	1.75	-
WATER LEVEL (m)	2.99	WATER LEVEL (m)							
TOTAL DISCHARGE	1.75	MEAN VELOCITY(m/s)							
		0.91							
		0.22							

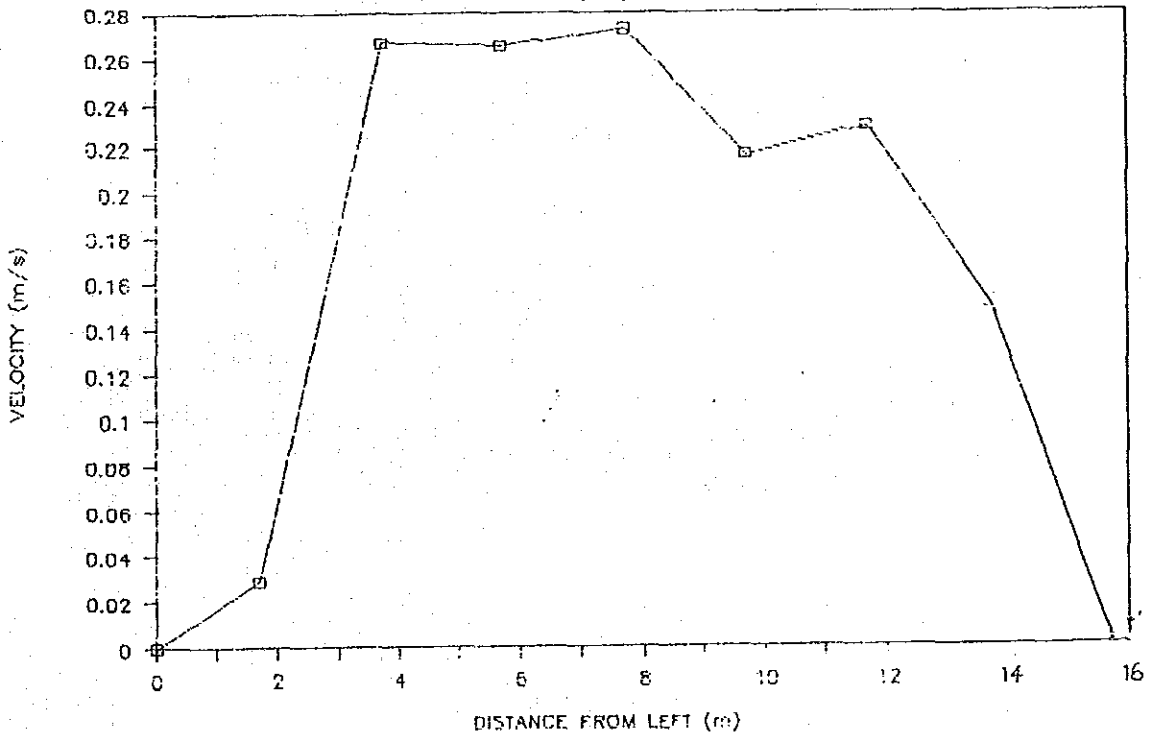
WATER DEPTH (4-120)

JUL./12/90



VELOCITY (4-120)

JUL./12/90



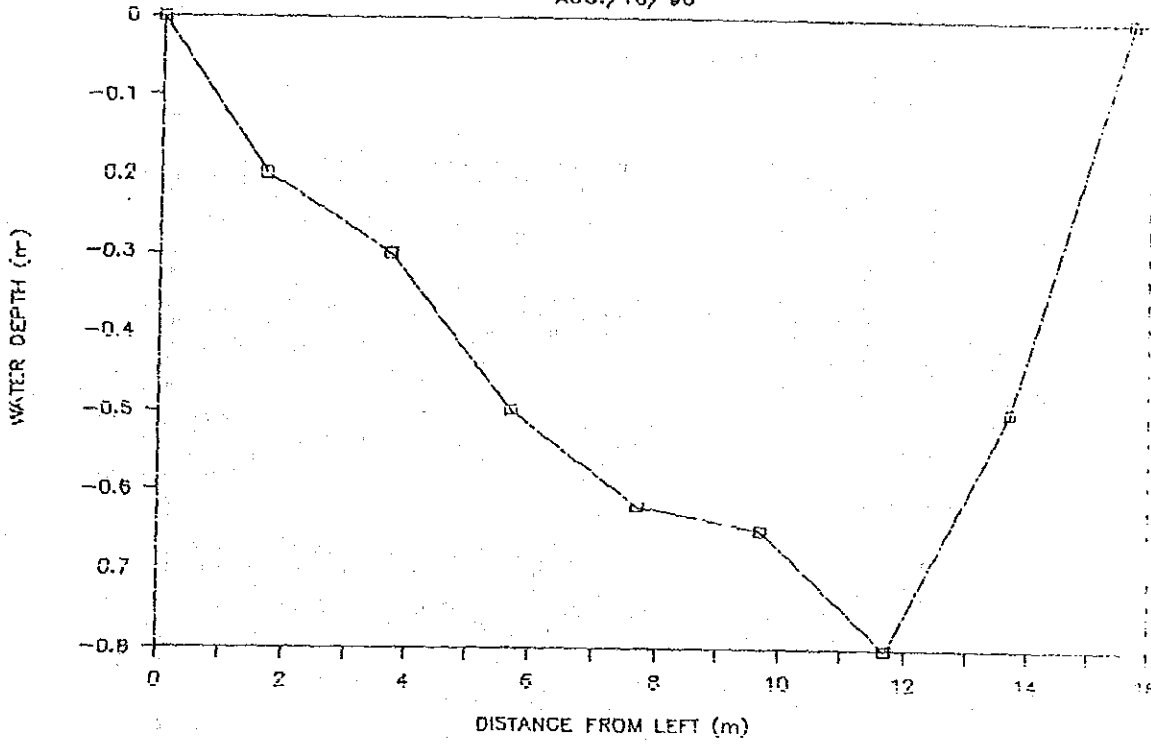
FLOW MEASUREMENT ST. : 4-120 MWAMBASHI AUG./16/190

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-R
WATER DEPTH (m)	0.00	0.20	0.30	0.50	0.62	0.65	0.80	0.00
S/WIDTH (m)	0.00	1.70	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	1.70	3.70	5.70	7.70	11.70	13.70	15.70
VELOCITY.2-1(f/s)	0.00	0.55	0.75	0.60	0.60	0.65	0.55	0.00
VELOCITY.2-2(f/s)	0.00	0.55	0.75	0.60	0.60	0.65	0.55	0.00
MEAN VEL.2 (f/s)	0.00	0.55	0.75	0.60	0.60	0.65	0.55	0.00
VELOCITY.8-1(f/s)	0.00	0.55	0.75	0.55	0.55	0.62	0.60	0.00
VELOCITY.8-2(f/s)	0.00	0.55	0.75	0.55	0.55	0.62	0.60	0.00
MEAN VEL.8 (f/s)	0.00	0.55	0.75	0.55	0.55	0.62	0.60	0.00
MEAN VEL (f/s)	0.000	0.550	0.750	0.575	0.575	0.635	0.625	0.525
MEAN VEL (m/s)	0.000	0.168	0.229	0.175	0.175	0.194	0.191	0.160
L/MEAN DEPTH (m)	0.000	0.100	0.275	0.450	0.590	0.643	0.763	0.575
L/MEAN WIDTH (m)	0.00	1.70	1.00	1.00	1.00	1.00	1.00	1.00
L/SEC. AREA (m2)	0.00	0.17	0.28	0.45	0.59	0.64	0.76	0.58
R/MEAN DEPTH (m)	0.000	0.225	0.350	0.530	0.628	0.688	0.725	0.250
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
R/SEC. AREA (m2)	0.00	0.23	0.35	0.53	0.63	0.69	0.73	0.50
S/AREA (m2)	0.00	0.40	0.63	0.98	1.22	1.33	1.49	1.08
TOTAL AREA (m2)	0.0	0.4	1.0	2.0	3.2	4.5	6.0	7.1
S/INISCHARGE(m3/s)	0.00	0.07	0.14	0.17	0.21	0.25	0.28	0.17
TOTAL DIS. (m3/s)	0.00	0.07	0.21	0.38	0.59	0.85	1.14	1.31

WATER LEVEL (f) : 2.85 WATER LEVEL (m) : 0.87
 TOTAL DISCHARGE : 1.31 MEAN VELOCITY(m/s) : 0.18

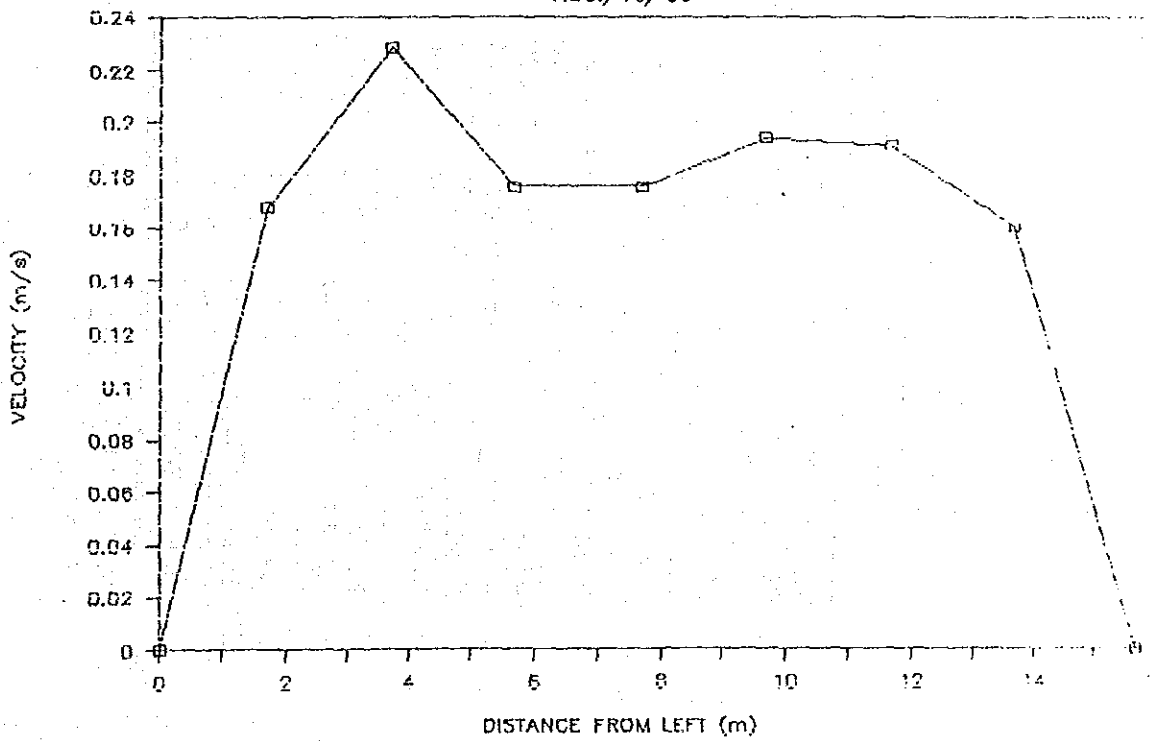
WATER DEPTH (4-120)

AUG./16/90



VELOCITY (4-120)

AUG./16/90



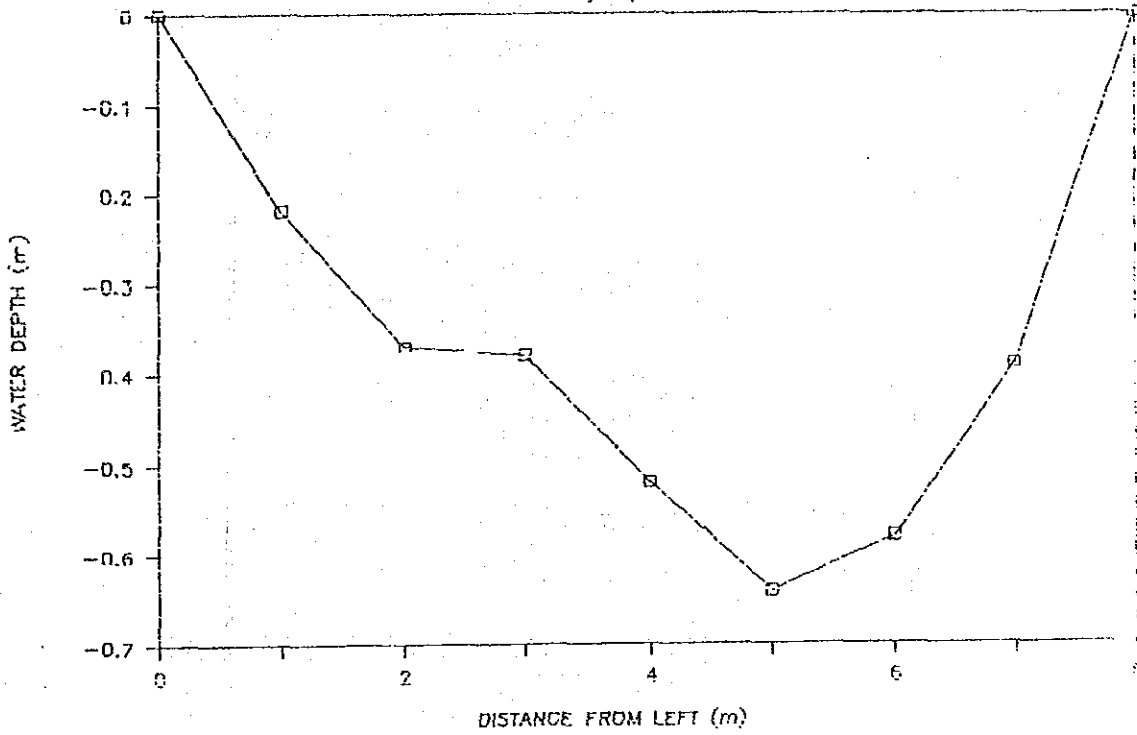
FLOW MEASUREMENT ST. : 4-120 MWAMBASHI OCT./09/'90

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-R
WATER DEPTH (m)	0.00	0.22	0.37	0.38	0.52	0.64	0.58	0.39
SE/WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
TOTAL SE/WIDTH(m)	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00
VELOCITY.2-1(f/s)	0.00	-	-	-	-	-	-	-
VELOCITY.2-2(f/s)	0.00	-	-	-	-	-	-	-
MEAN VEL.2 (f/s)	0.00	-	-	-	-	-	-	-
VELOCITY.8-1(f/s)	0.00	1.00	0.20	1.00	0.75	0.75	0.65	0.45
VELOCITY.8-2(f/s)	0.00	1.00	0.20	1.00	0.75	0.75	0.65	0.45
MEAN VEL.8 (f/s)	0.00	1.00	0.20	1.00	0.75	0.75	0.65	0.45
MEAN VEL (f/s)	0.000	1.000	0.200	1.000	0.750	0.750	0.650	0.450
MEAN VEL (m/s)	0.000	0.305	0.061	0.305	0.229	0.229	0.198	0.137
L/MEAN DEPTH (m)	0.000	0.110	0.333	0.378	0.485	0.610	0.595	0.438
L/MEAN WIDTH (m)	0.00	1.00	0.50	0.50	0.50	0.50	0.50	0.50
L/SEC. AREA (m2)	0.00	0.11	0.17	0.19	0.24	0.31	0.30	0.22
R/MEAN DEPTH (m)	0.000	0.258	0.373	0.415	0.550	0.625	0.533	0.195
R/MEAN WIDTH (m)	0.00	0.50	0.50	0.50	0.50	0.50	0.50	1.00
R/SEC. AREA (m2)	0.00	0.13	0.19	0.21	0.28	0.31	0.27	0.20
S/AREA (m2)	0.00	0.24	0.35	0.40	0.52	0.62	0.56	0.41
TOTAL AREA (m2)	0.0	0.2	0.6	1.0	1.5	2.1	2.7	3.1
S/DISCHARGE(m3/s)	0.00	0.07	0.02	0.12	0.12	0.14	0.11	0.06
TOTAL DIS. (m3/s)	0.00	0.07	0.09	0.22	0.33	0.47	0.59	0.64

WATER LEVEL (f) : 2.29 WATER LEVEL (m) : 0.70
 TOTAL DISCHARGE : 0.64 MEAN VELOCITY(m/s) : 0.21

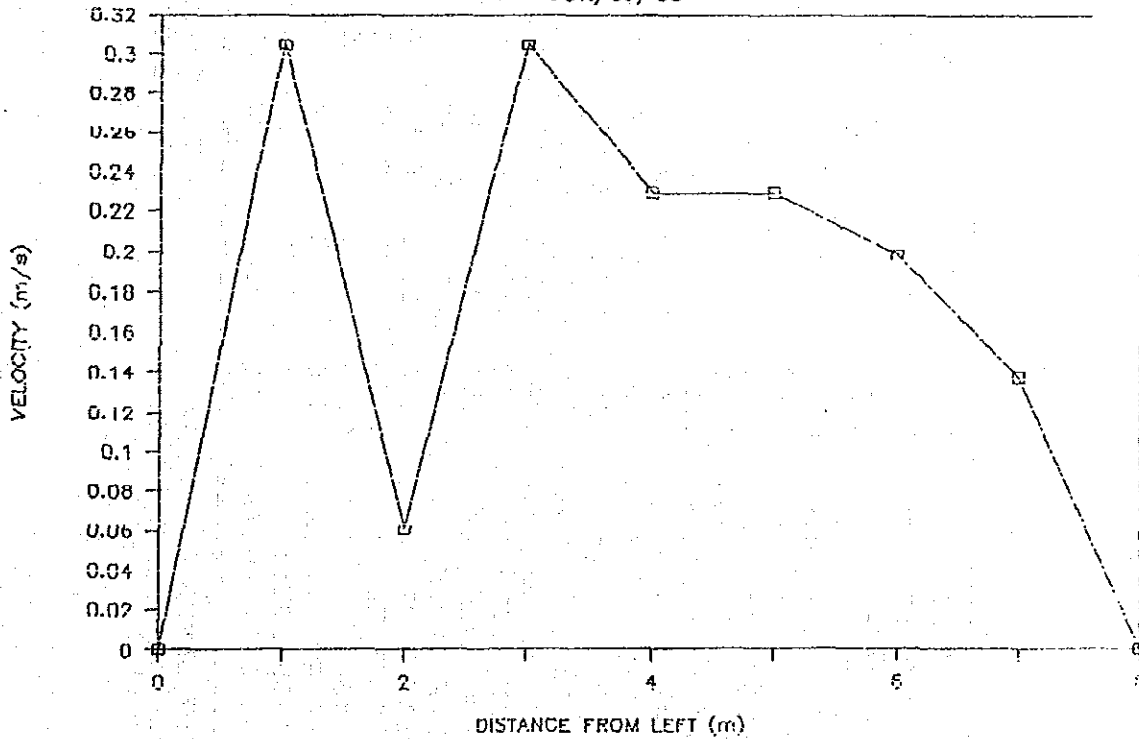
WATER DEPTH (4-120)

001./09/90



VELOCITY (4-120)

001./09/90



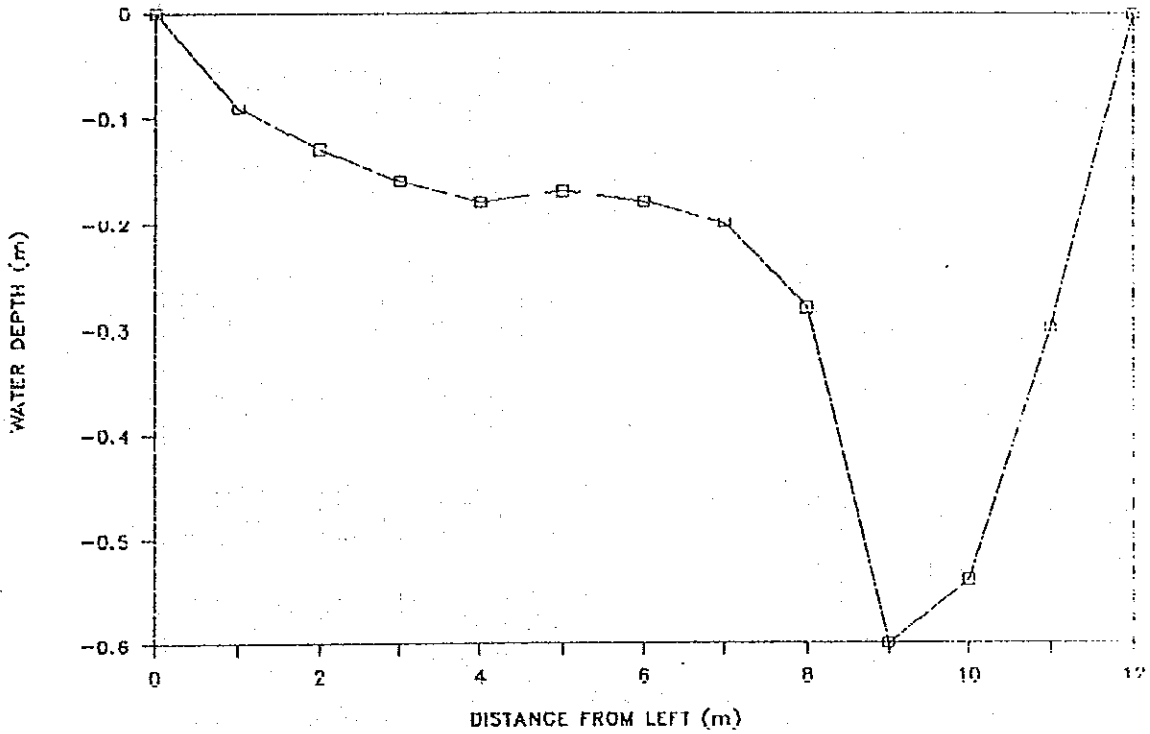
FLOW MEASUREMENT ST. : 4-120 MWAMBASHI NOV./03/'90

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11	NO-R
WATER DEPTH (m)	0.00	0.09	0.13	0.16	0.18	0.17	0.18	0.20	0.28	0.60	0.54	0.30	0.00
SE/WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
TOTAL SE/WIDTH(m)	0.00	1.00	2.00	3.00	4.00	5.00	6.00	7.00	8.00	9.00	10.00	11.00	12.00
VELOCITY.2-1(f/s)	0.00	-	-	-	-	-	-	-	-	-	-	-	-
VELOCITY.2-2(f/s)	0.00	-	-	-	-	-	-	-	-	-	-	-	-
MEAN VEL.2 (f/s)	0.00	-	-	-	-	-	-	-	-	-	-	-	-
VELOCITY.8-1(f/s)	0.00	0.00	0.50	0.62	0.79	0.82	0.92	0.90	0.90	0.65	0.65	0.60	0.00
VELOCITY.8-2(f/s)	0.00	0.00	0.50	0.62	0.79	0.82	0.92	0.90	0.90	0.65	0.65	0.60	0.00
MEAN VEL.8 (f/s)	0.00	0.00	0.50	0.62	0.79	0.82	0.92	0.90	0.90	0.65	0.65	0.60	0.00
MEAN VEL (f/s)	0.000	0.000	0.500	0.620	0.790	0.820	0.920	0.900	0.900	0.650	0.650	0.600	0.000
MEAN VEL (m/s)	0.000	0.000	0.152	0.189	0.241	0.250	0.280	0.274	0.274	0.198	0.198	0.183	0.000
L/MEAN DEPTH (m)	0.000	0.045	0.120	0.153	0.175	0.173	0.178	0.195	0.260	0.520	0.555	0.360	-
L/MEAN WIDTH (m)	0.00	1.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-
L/SEC. AREA (m2)	0.00	0.05	0.06	0.08	0.09	0.09	0.09	0.10	0.13	0.26	0.28	0.18	-
R/MEAN DEPTH (m)	0.000	0.100	0.138	0.165	0.178	0.173	0.185	0.220	0.360	0.585	0.480	0.150	-
R/MEAN WIDTH (m)	0.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	-
R/SEC. AREA (m2)	0.00	0.05	0.07	0.08	0.09	0.09	0.09	0.11	0.18	0.29	0.24	0.15	-
S/AREA (m2)	0.00	0.10	0.13	0.16	0.18	0.17	0.18	0.21	0.31	0.55	0.52	0.33	-
TOTAL AREA (m2)	0.0	0.1	0.2	0.4	0.6	0.7	0.9	1.1	1.4	2.0	2.5	2.8	-
S/DISCHARGE(m3/s)	0.00	0.00	0.02	0.03	0.04	0.04	0.05	0.06	0.09	0.11	0.10	0.06	-
TOTAL DIS. (m3/s)	0.00	0.00	0.02	0.05	0.09	0.14	0.19	0.24	0.33	0.44	0.54	0.60	-

WATER LEVEL (m) : 0.65
 TOTAL DISCHARGE : 0.60
 MEAN VELOCITY(m/s) : 0.21

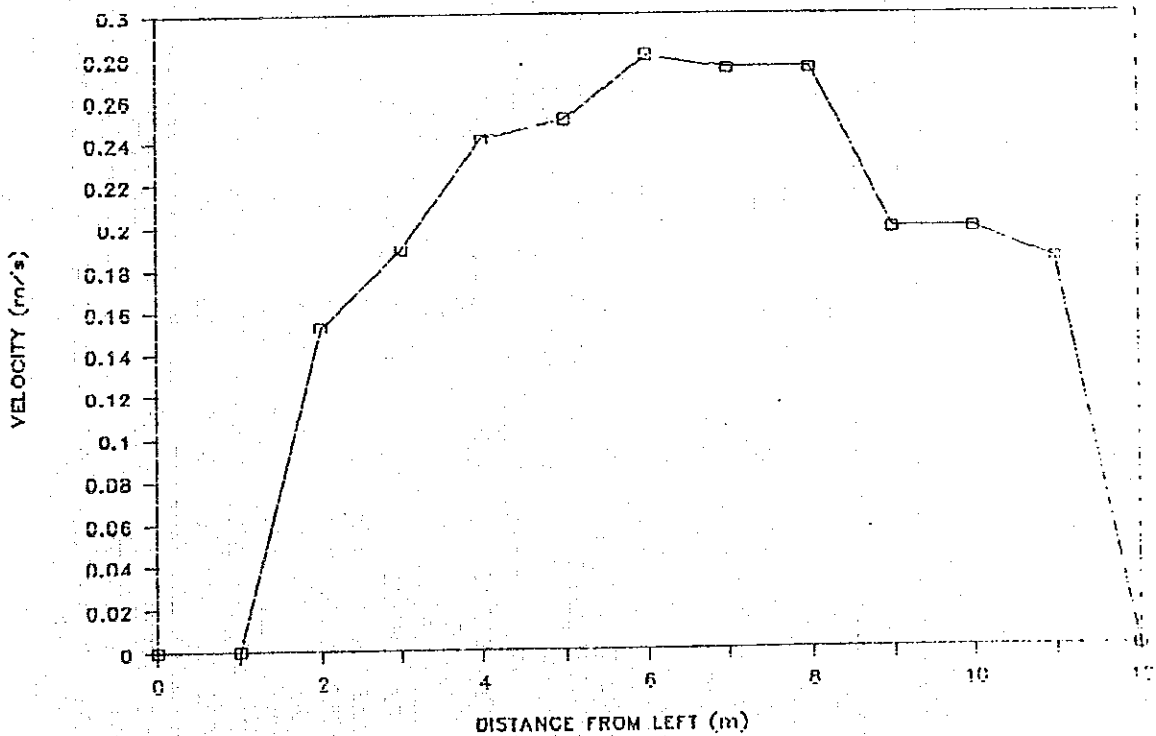
WATER DEPTH (4-120)

NOV./03/90



VELOCITY (4-120)

NOV./03/90



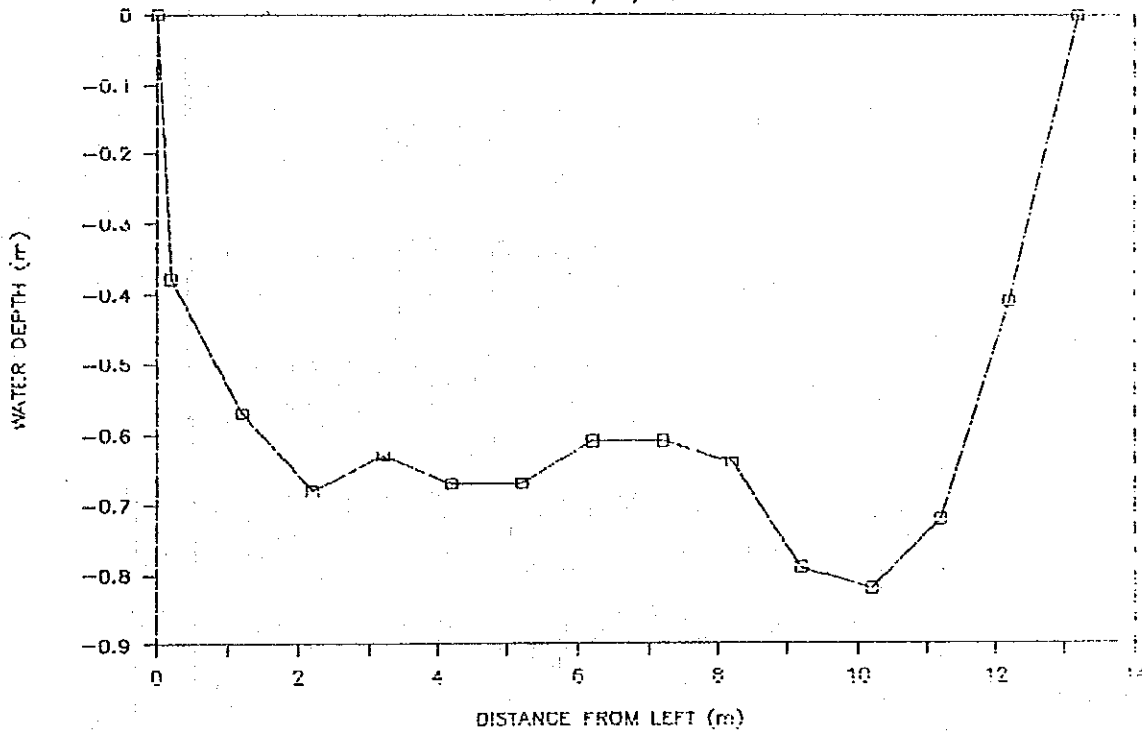
FLOW MEASUREMENT ST. : 4-120 MAMABASHI DEC./21/'90

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11	NO-12	NO-13	NO-R
WATER DEPTH (m)	0.00	0.38	0.57	0.68	0.63	0.67	0.67	0.61	0.64	0.79	0.82	0.72	0.41	0.00
SE/WIDTH (m)	0.00	0.20	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
TOTAL SE/WIDTH(m)	0.00	0.20	1.20	2.20	3.20	4.20	5.20	7.20	8.20	9.20	10.20	11.20	12.20	13.20
VELOCITY. 2-1 (f/s)	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
VELOCITY. 2-2 (f/s)	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
MEAN VEL. 2 (f/s)	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-
VELOCITY. 8-1 (f/s)	0.00	0.80	0.90	0.92	1.12	1.22	1.25	1.21	1.32	1.26	1.10	1.06	0.70	0.00
VELOCITY. 8-2 (f/s)	0.00	0.80	0.90	0.92	1.12	1.22	1.25	1.21	1.32	1.26	1.10	1.06	0.70	0.00
MEAN VEL. 8 (f/s)	0.00	0.80	0.90	0.92	1.12	1.22	1.25	1.21	1.32	1.26	1.10	1.06	0.70	0.00
MEAN VEL (f/s)	0.000	0.800	0.900	0.920	1.120	1.220	1.250	1.210	1.320	1.260	1.100	1.060	0.700	0.000
MEAN VEL (m/s)	0.000	0.244	0.274	0.280	0.341	0.372	0.381	0.359	0.396	0.384	0.335	0.323	0.213	0.000
L/MEAN DEPTH (m)	0.000	0.190	0.523	0.653	0.643	0.660	0.670	0.625	0.610	0.753	0.813	0.745	0.488	-
L/MEAN WIDTH (m)	0.00	0.20	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	-
L/SEC. AREA (m2)	0.00	0.04	0.25	0.33	0.32	0.33	0.34	0.31	0.31	0.38	0.41	0.37	0.24	-
R/MEAN DEPTH (m)	0.000	0.428	0.598	0.668	0.640	0.670	0.655	0.610	0.618	0.798	0.795	0.643	0.205	-
R/MEAN WIDTH (m)	0.00	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.00	-
R/SEC. AREA (m2)	0.00	0.21	0.30	0.33	0.32	0.34	0.33	0.31	0.31	0.40	0.40	0.32	0.21	-
S/AREA (m2)	0.00	0.25	0.56	0.66	0.64	0.67	0.66	0.62	0.61	0.78	0.80	0.69	0.45	-
TOTAL AREA (m2)	0.0	0.3	0.8	1.5	2.1	2.8	3.4	4.1	4.7	6.1	6.9	7.6	8.0	-
S/DISCHARGE (m3/s)	0.00	0.06	0.15	0.19	0.22	0.25	0.25	0.23	0.24	0.30	0.27	0.22	0.10	-
TOTAL DIS. (m3/s)	0.00	0.06	0.22	0.40	0.62	0.87	1.12	1.35	1.59	2.15	2.42	2.64	2.74	-

WATER LEVEL (f) : 3.35 WATER LEVEL (m) : 1.02
 TOTAL DISCHARGE : 2.74 MEAN VELOCITY (m/s) : 0.34
 NOTE : 0.6 METHOD WERE CARRIED AT ALL SECTIONAL POINTS

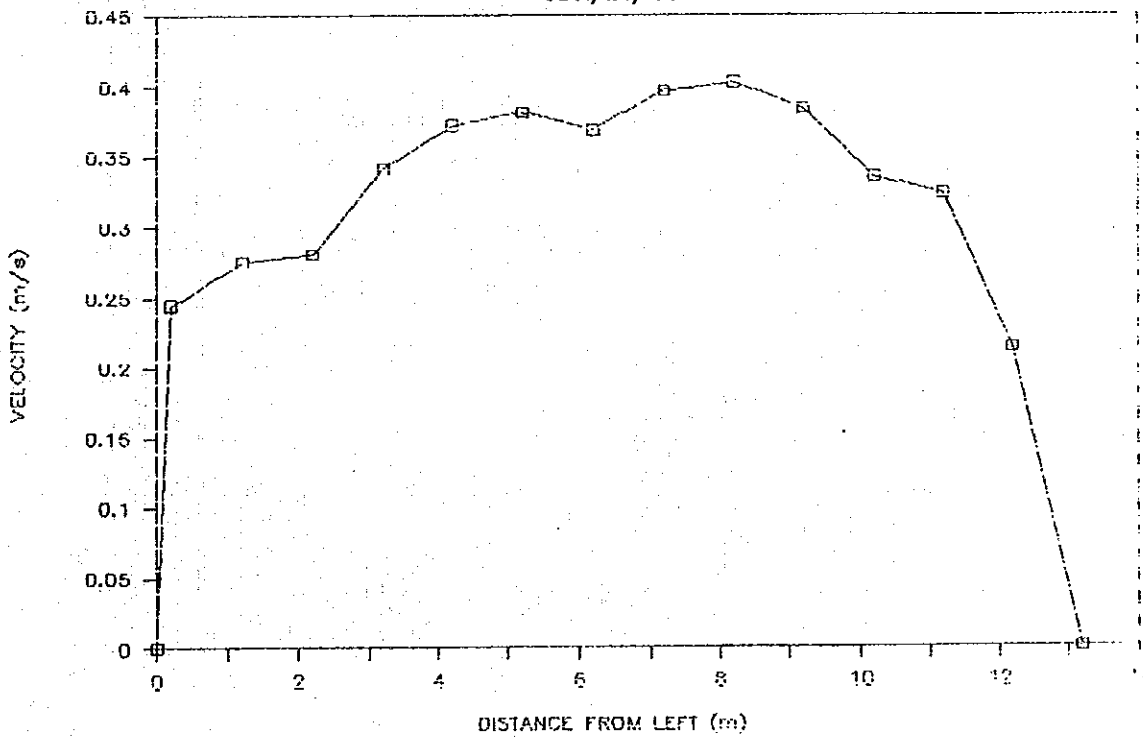
WATER DEPTH (4-120)

DEC./21/00



VELOCITY (4-120)

DEC./21/00



FLOW MEASUREMENT ST. : 4-120 MWAMBASHI

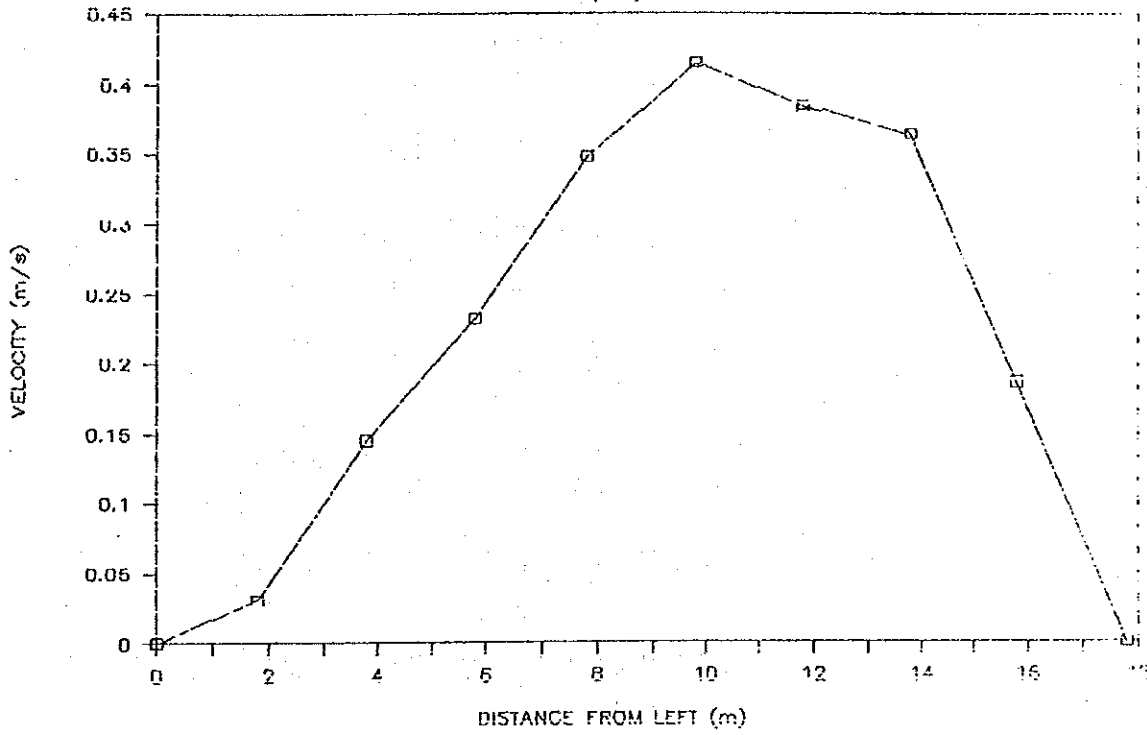
JAN./11/'91

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-R
WATER DEPTH (m)	0.00	0.38	1.35	1.41	1.51	1.52	1.59	1.71	0.91
SP/WIDTH (m)	0.00	1.80	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	1.80	3.80	5.80	7.80	9.80	11.80	13.80	17.80
VELOCITY.2-1(f/s)	0.00	0.10	0.65	0.92	1.20	1.42	1.32	1.30	0.80
VELOCITY.2-2(f/s)	0.00	0.10	0.65	0.92	1.20	1.42	1.32	1.30	0.80
MEAN VEL.2 (f/s)	0.00	0.10	0.65	0.92	1.20	1.42	1.32	1.30	0.80
VELOCITY.8-1(f/s)	0.00	-	0.30	0.60	1.08	1.30	1.20	1.08	0.42
VELOCITY.8-2(f/s)	0.00	-	0.30	0.60	1.08	1.30	1.20	1.08	0.42
MEAN VEL.8 (f/s)	0.00	-	0.30	0.60	1.08	1.30	1.20	1.08	0.42
MEAN VEL (f/s)	0.000	0.100	0.475	0.760	1.140	1.360	1.260	1.190	0.610
MEAN VEL (m/s)	0.000	0.030	0.145	0.232	0.347	0.415	0.384	0.363	0.186
L/MEAN DEPTH (m)	0.000	0.190	1.108	1.395	1.485	1.518	1.573	1.680	1.110
L/MEAN WIDTH (m)	0.00	1.80	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L/SEC. AREA (m2)	0.00	0.34	1.11	1.40	1.49	1.52	1.57	1.68	1.11
R/MEAN DEPTH (m)	0.000	0.623	1.365	1.435	1.513	1.538	1.620	1.510	0.455
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00
R/SEC. AREA (m2)	0.00	0.62	1.37	1.44	1.51	1.54	1.62	1.51	0.91
S/AREA (m2)	0.00	0.96	2.47	2.83	3.00	3.06	3.19	3.19	2.02
TOTAL AREA (m2)	0.0	1.0	3.4	6.3	9.3	12.3	15.5	18.7	20.7
S/DISCHARGE(m3/s)	0.00	0.03	0.36	0.66	1.04	1.27	1.23	1.16	0.38
TOTAL DIS. (m3/s)	0.00	0.03	0.39	1.04	2.08	3.35	4.58	5.73	6.11

WATER LEVEL (f) : 6.20 WATER LEVEL (m) : 1.89
 TOTAL DISCHARGE : 6.11 MEAN VELOCITY(m/s) : 0.29
 NOTE : 0.6 METHOD WERE CARRIED AT ALL SECTIONAL POINTS

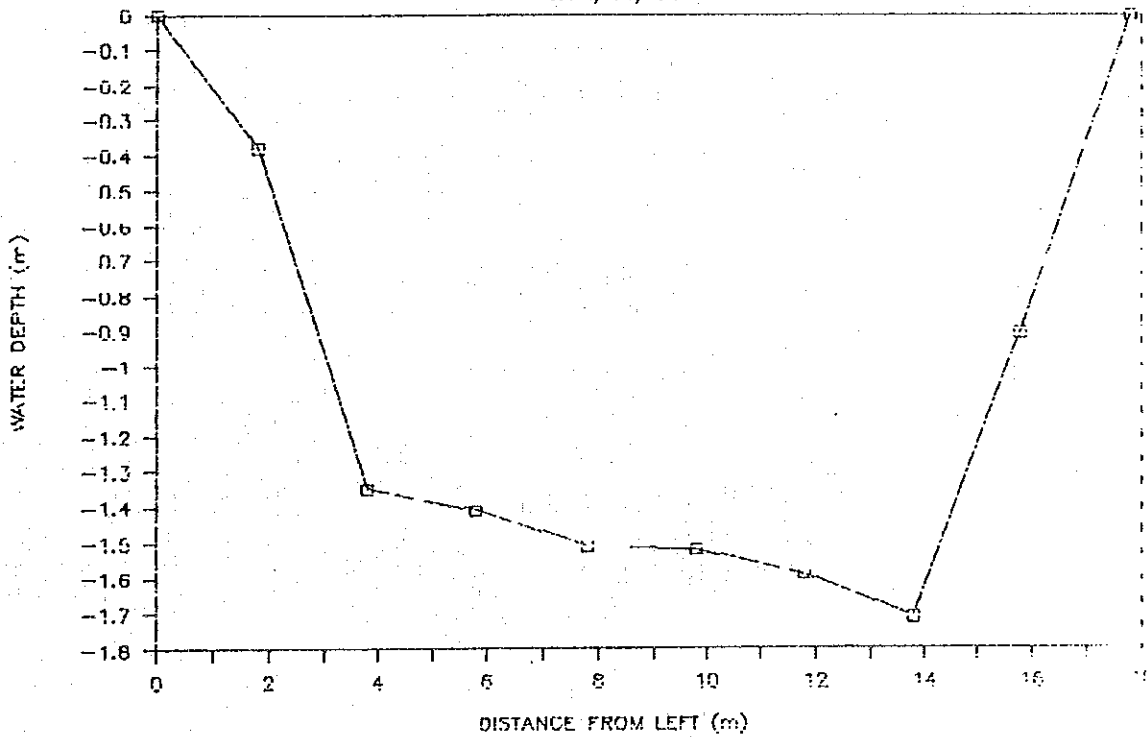
VELOCITY (4-120)

JAN./11/01



WATER DEPTH (4-120)

JAN./11/01



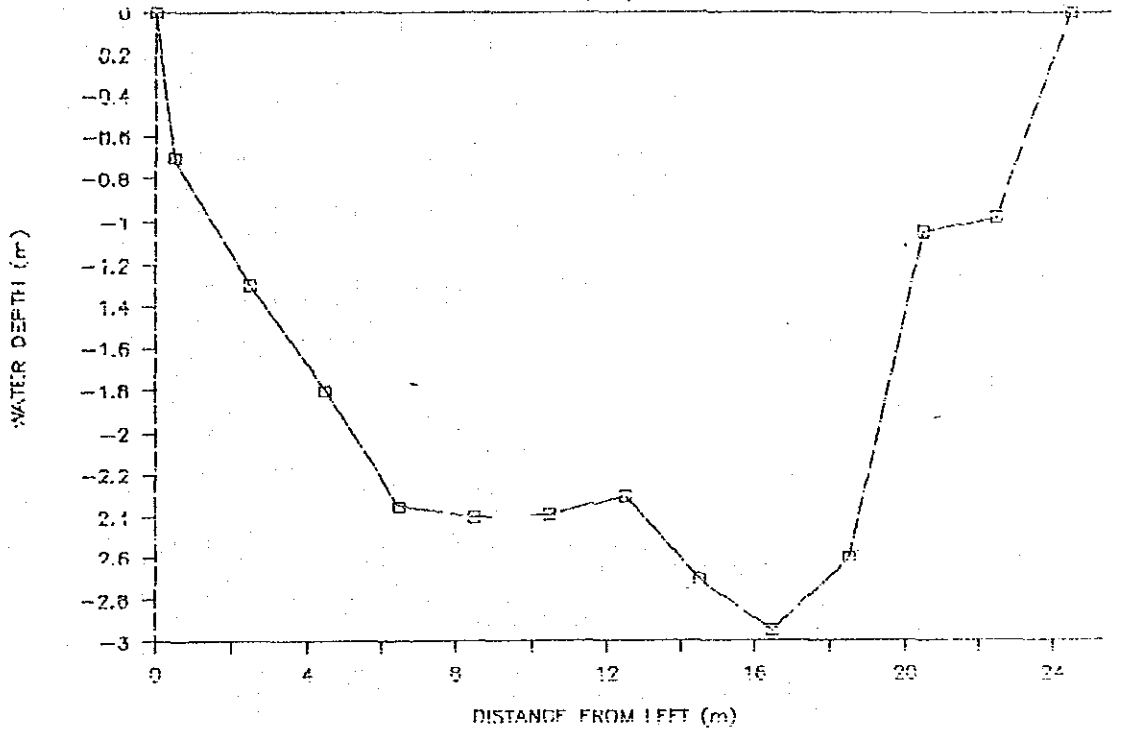
FLOW MEASUREMENT ST. : 4-120 MWAMGASHZ FEB./13/91

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-11	NO-12	NO-R
WATER DEPTH (m)	0.70	1.30	1.80	2.35	2.40	2.39	2.30	2.70	2.95	2.50	1.05	0.98	0.00
SE/WIDTH (m)	0.50	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.50	2.50	4.50	6.50	9.50	10.50	12.50	14.50	16.50	18.50	20.50	22.50	24.50
VELOCITY.2-1(f/s)	0.00	0.10	0.32	0.68	0.98	1.30	1.60	1.72	1.68	1.78	1.22	0.40	0.00
VELOCITY.2-2(f/s)	0.00	0.10	0.32	0.68	0.98	1.30	1.60	1.72	1.68	1.78	1.22	0.40	0.00
MEAN VEL.2 (f/s)	0.00	0.10	0.32	0.68	0.98	1.30	1.60	1.72	1.68	1.78	1.22	0.40	0.00
VELOCITY.8-1(f/s)	0.00	0.08	0.30	0.42	0.84	1.24	1.50	1.50	1.12	1.30	1.02	-	0.00
VELOCITY.8-2(f/s)	0.00	0.08	0.30	0.42	0.84	1.24	1.50	1.50	1.12	1.30	1.02	-	0.00
MEAN VEL.8 (f/s)	0.00	0.08	0.30	0.42	0.84	1.24	1.50	1.50	1.12	1.30	1.02	-	0.00
MEAN VEL (f/s)	0.000	0.090	0.310	0.550	0.910	1.270	1.550	1.610	1.400	1.540	1.120	0.400	0.000
MEAN VEL (m/s)	0.000	0.027	0.094	0.160	0.277	0.387	0.472	0.491	0.427	0.459	0.341	0.122	0.000
MEAN DEPTH (m)	0.000	1.150	1.675	2.210	2.388	2.393	2.323	2.600	2.888	2.688	1.438	0.998	-
MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
MEAN AREA (m2)	0.00	0.18	1.88	2.21	2.38	2.39	2.32	2.60	2.89	2.69	1.44	1.00	-
MEAN DEPTH (m)	0.000	1.425	1.938	2.363	2.398	2.368	2.400	2.753	2.863	2.213	1.033	0.490	-
MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
MEAN AREA (m2)	0.00	0.85	1.94	2.36	2.40	2.37	2.40	2.78	2.95	2.21	1.03	0.98	-
TOTAL AREA (m2)	0.00	1.03	2.81	4.59	4.79	4.76	4.72	5.36	5.75	4.90	2.47	1.98	-
TOTAL DISCHARGE(m3/s)	0.00	3.60	7.21	11.79	16.57	21.33	25.06	31.42	37.17	42.07	44.54	46.52	-
TOTAL DISCHARGE(m3/s)	0.00	0.07	0.34	0.77	1.39	1.84	2.23	2.83	3.45	2.30	0.94	0.24	-
TOTAL DISCHARGE(m3/s)	0.00	0.07	0.41	1.10	2.51	4.35	6.59	9.21	11.66	13.96	14.91	15.05	-

WATER LEVEL (f) : 9.29 WATER LEVEL (m) : 2.83
 DISCHARGE : 15.05 MEAN VELOCITY(m/s) : 0.32
 NOTE : C.S METHOD WERE CARRIED AT ALL SECTIONAL POINTS

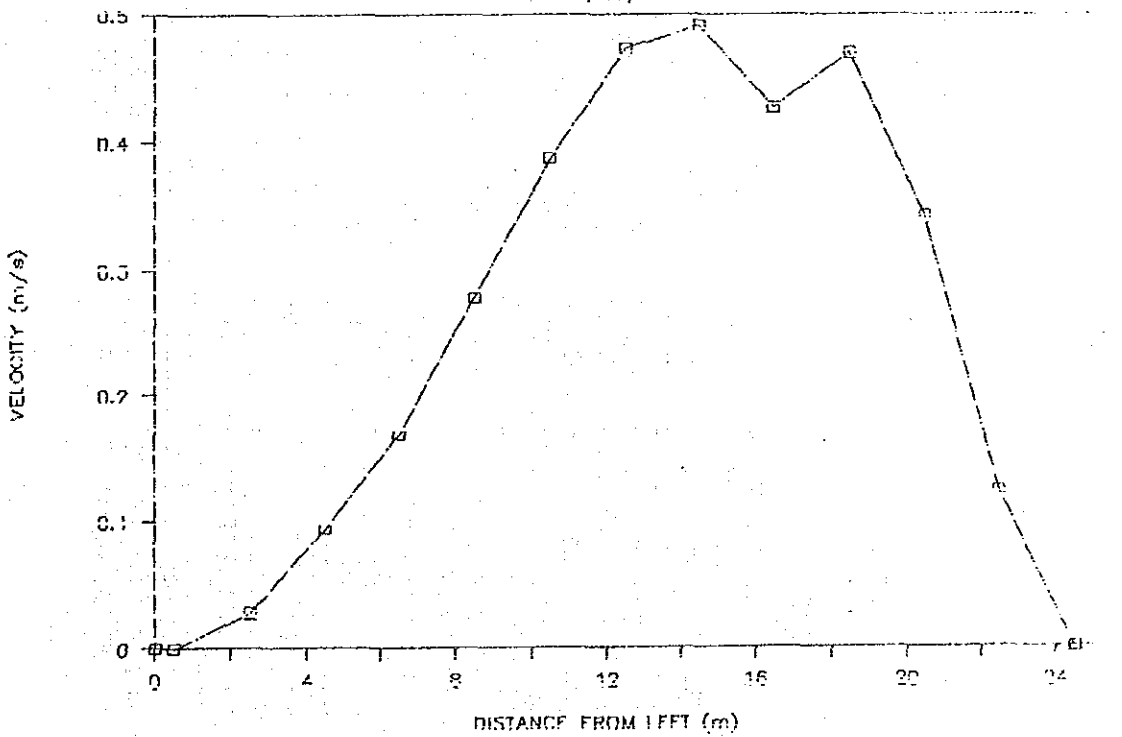
WATER DEPTH (4-120)

FEB./13/VI



VELOCITY (4-120)

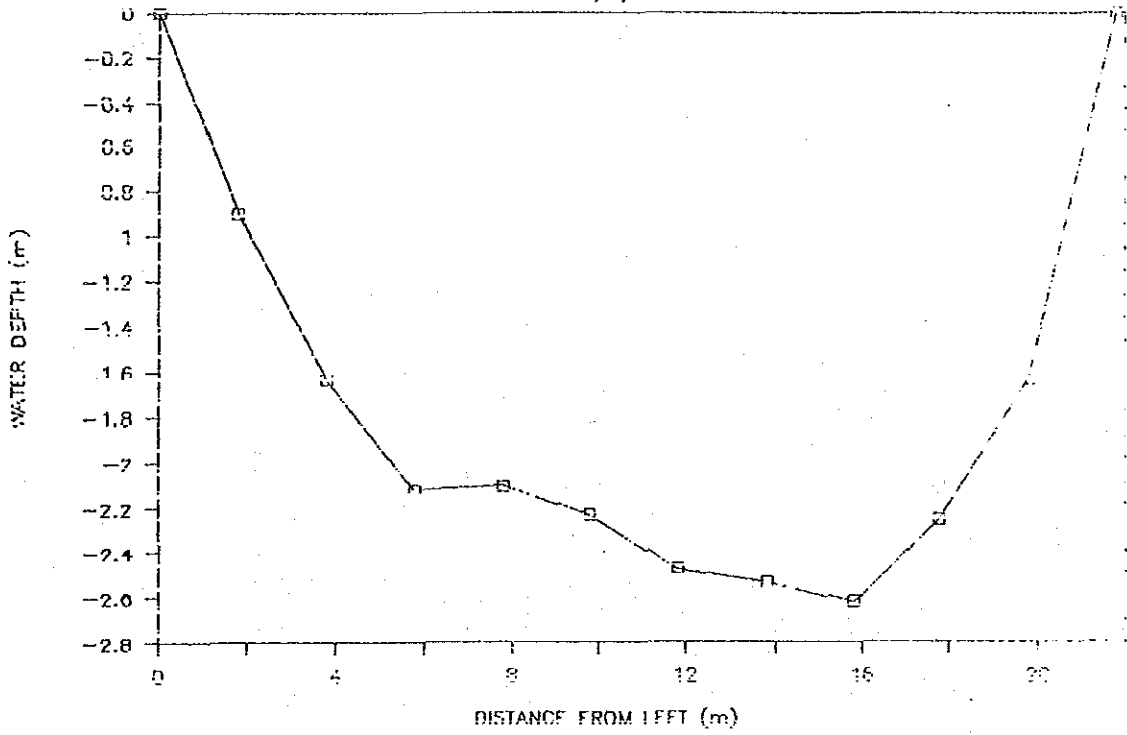
FEB./13/VI



ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-8	NO-9	NO-10	NO-P
WATER DEPTH (m)	0.90	1.63	2.12	2.1	2.23	2.47	2.53	2.62	2.25	1.63	0.00
SE/WIDTH (m)	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	3.80	5.80	7.80	9.80	11.80	13.80	15.80	17.80	19.80	21.80
VELOCITY.2-1(f/s)	0.00	0.32	0.80	1.32	1.48	1.50	1.80	1.56	1.44	0.90	0.00
VELOCITY.2-2(f/s)	0.00	0.32	0.80	1.32	1.48	1.50	1.80	1.56	1.44	0.90	0.00
MEAN VEL.2 (f/s)	0.00	0.32	0.80	1.32	1.48	1.50	1.80	1.56	1.44	0.90	0.00
VELOCITY.8-1(f/s)	0.00	0.12	0.50	0.80	1.20	1.32	1.50	1.20	1.40	0.42	0.00
VELOCITY.8-2(f/s)	0.00	0.12	0.50	0.80	1.20	1.32	1.50	1.20	1.40	0.42	0.00
MEAN VEL.8 (f/s)	0.00	0.12	0.50	0.80	1.20	1.32	1.50	1.20	1.40	0.42	0.00
MEAN VEL (f/s)	0.000	0.220	0.650	1.060	1.340	1.410	1.650	1.380	1.420	0.660	0.000
MEAN VEL (m/s)	0.000	0.067	0.198	0.323	0.408	0.430	0.503	0.421	0.433	0.201	0.000
L/MEAN DEPTH (m)	0.450	1.448	1.998	2.105	2.198	2.410	2.515	2.598	2.343	1.785	-
L/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	-
L/SEC. AREA (m2)	0.00	0.81	1.45	2.11	2.20	2.41	2.52	2.60	2.34	1.79	-
R/MEAN DEPTH (m)	0.000	1.088	1.753	2.133	2.290	2.485	2.553	2.528	2.095	0.815	-
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	-
R/SEC. AREA (m2)	0.00	1.08	1.75	2.13	2.29	2.49	2.55	2.53	2.10	1.63	-
S/AREA (m2)	0.00	1.89	3.20	4.24	4.49	4.90	5.07	5.13	4.44	3.42	-
TOTAL AREA (m2)	0.00	1.89	5.09	13.44	17.93	22.83	27.89	33.02	37.46	40.87	-
S/DISCHARGE(m3/s)	0.00	0.21	0.81	1.37	1.83	2.10	2.55	2.16	1.92	0.69	-
TOTAL DIS. (m3/s)	0.00	0.21	1.03	2.40	4.23	6.33	8.88	11.04	12.96	13.65	-
WATER LEVEL (f)	8.51	WATER LEVEL (m) : 2.59									
TOTAL DISCHARGE : 13.65	MEAN VELOCITY(m/s) : 0.33										

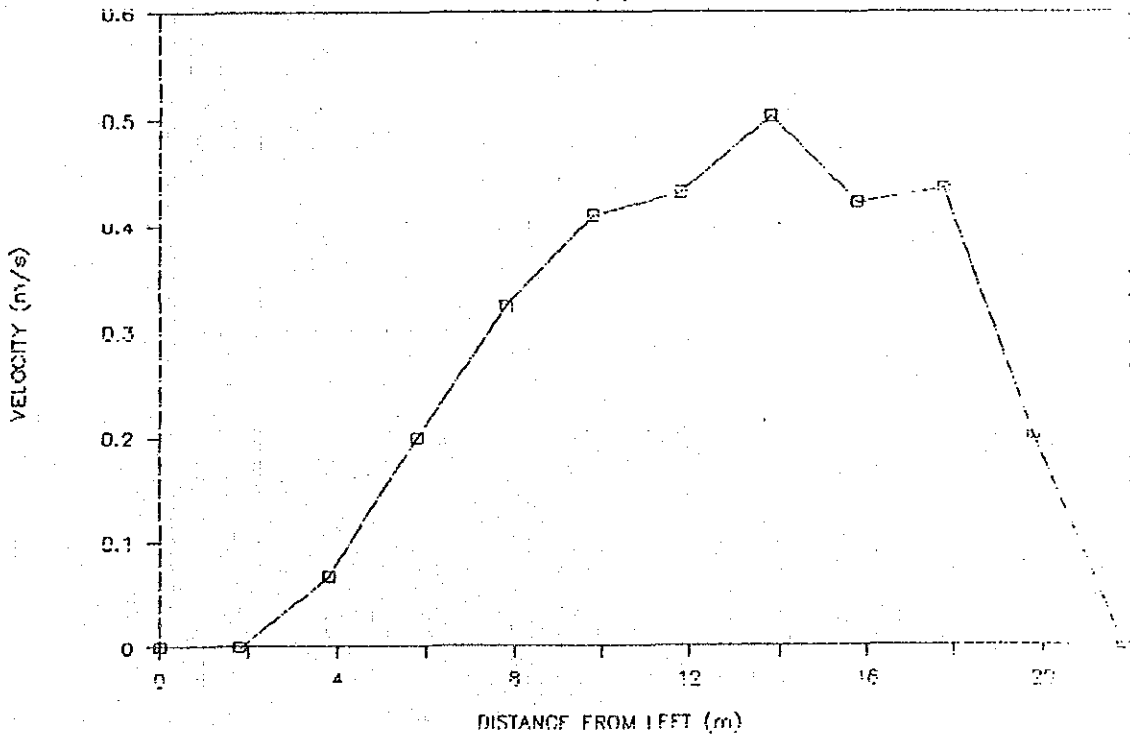
WATER DEPTH (4-120)

MAX. // U1



VELOCITY (4-120)

MAX. // U1



FLOW MEASUREMENT ST. : 4-120 MMAMBASHI

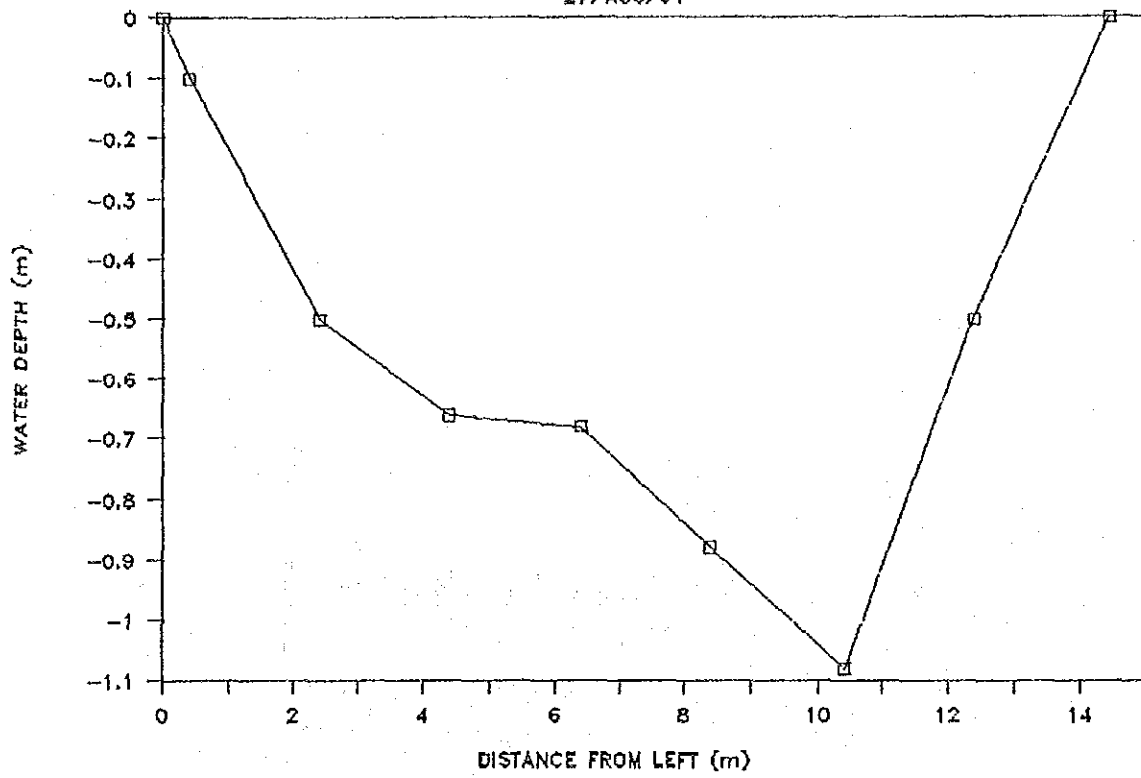
27/AUG/'91

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-R
WATER DEPTH (m)	0.00	0.10	0.50	0.66	0.68	0.88	1.08	0.50	0.00
SE/WIDTH (m)	0.00	0.40	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	0.40	2.40	4.40	6.40	8.40	10.40	12.40	14.40
VELOCITY.2-1(f/s)	0.00	-	-	-	-	-	0.80	-	0.00
VELOCITY.2-2(f/s)	0.00	-	-	-	-	-	0.75	-	0.00
MEAN VEL.2 (f/s)	0.00	-	-	-	-	-	0.78	-	0.00
VELOCITY.8-1(f/s)	0.00	0.35	0.80	1.00	0.90	0.80	0.70	0.80	0.00
VELOCITY.9-2(f/s)	0.00	0.40	0.80	1.00	0.90	0.75	0.80	0.75	0.00
MEAN VEL.8 (f/s)	0.00	0.38	0.80	1.00	0.90	0.78	0.75	0.78	0.00
MEAN VEL (f/s)	0.00	0.38	0.80	1.00	0.90	0.78	0.76	0.78	0.00
MEAN VEL (m/s)	0.000	0.114	0.244	0.305	0.274	0.236	0.232	0.236	0.000
L/MEAN DEPTH (m)	0.000	0.050	0.400	0.620	0.675	0.830	1.030	0.645	-
L/MEAN WIDTH (m)	0.00	0.40	1.00	1.00	1.00	1.00	1.00	1.00	-
L/SEC. AREA (m2)	0.00	0.02	0.40	0.62	0.68	0.83	1.03	0.65	-
R/MEAN DEPTH (m)	0.000	0.200	0.540	0.665	0.730	0.930	0.935	0.250	-
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	-
R/SEC. AREA (m2)	0.00	0.20	0.54	0.67	0.73	0.93	0.94	0.50	-
S/AREA (m2)	0.00	0.22	0.94	1.29	1.41	1.76	1.97	1.15	-
TOTAL AREA (m2)	0.0	0.2	1.2	2.4	3.9	5.6	7.6	8.7	-
S/DISCHARGE(m3/s)	0.00	0.03	0.23	0.39	0.39	0.42	0.46	0.27	-
TOTAL DIS. (m3/s)	0.00	0.03	0.25	0.65	1.03	1.45	1.90	2.17	-

WATER LEVEL (f) : 4.40 WATER LEVEL (m) : 1.34
 TOTAL DISCHARGE : 2.17 MEAN VELOCITY(m/s) : 0.25
 SOME SECTIONS ARE APPLIED FOR 0.6 DEPTH METHOD.

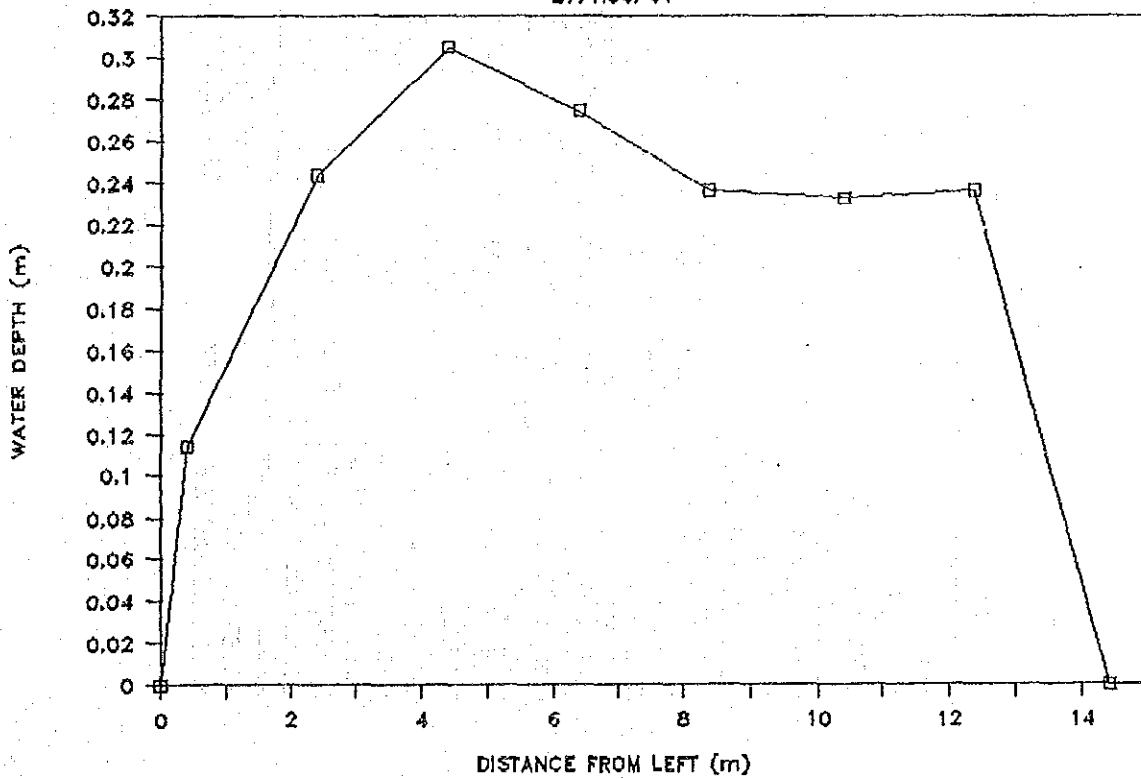
WATER DEPTH (4-120)

27/AUG/91



VELOCITY (4-120)

27/AUG/91



17/SEP/91

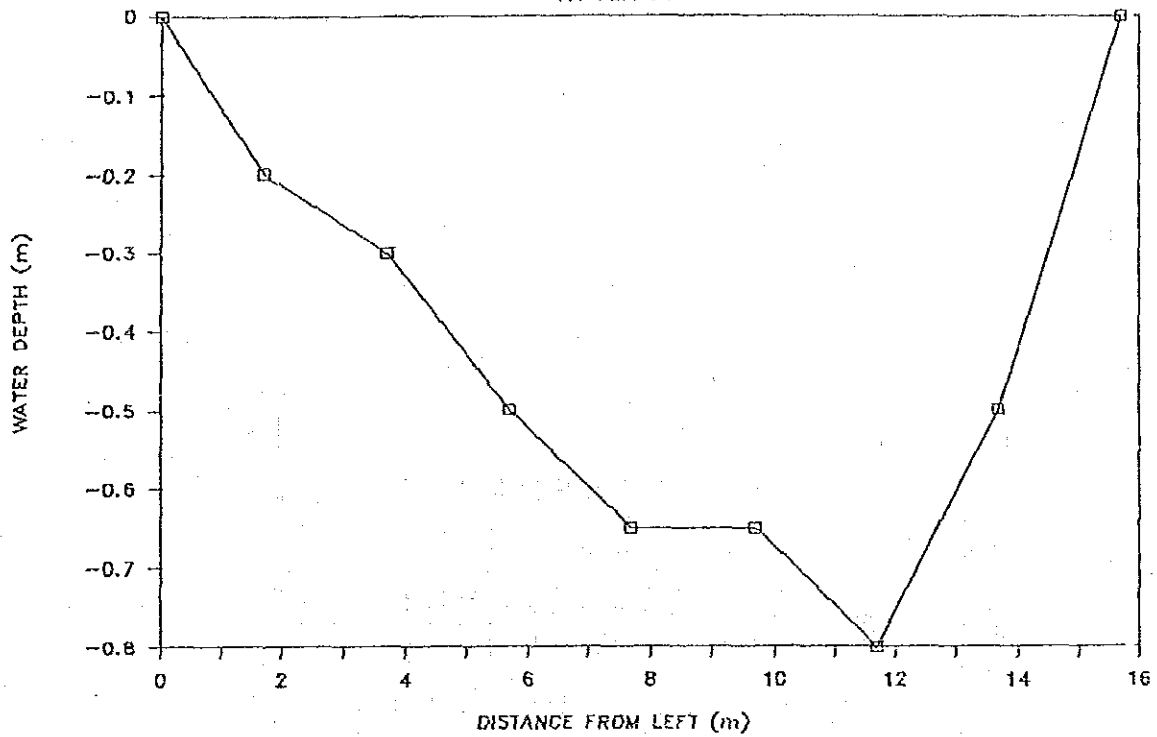
FLOW MEASUREMENT ST. : 4-120 MNAMBASHI

ITEMS	NO-L	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-R
WATER DEPTH (m)	0.00	0.20	0.30	0.50	0.65	0.65	0.80	0.50	0.00
SE/WIDTH (m)	0.00	1.70	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	1.70	3.70	5.70	7.70	9.70	11.70	13.70	15.70
VELOCITY.2-1(f/s)	0.00	0.52	0.68	0.60	0.60	0.65	0.65	0.50	0.00
VELOCITY.2-2(f/s)	0.00	0.50	0.70	0.60	0.60	0.65	0.65	0.50	0.00
MEAN VEL.2 (f/s)	0.00	0.51	0.69	0.60	0.60	0.65	0.65	0.50	0.00
VELOCITY.8-1(f/s)	0.00	0.35	0.80	1.00	0.90	0.80	0.70	0.80	0.00
VELOCITY.8-2(f/s)	0.00	0.40	0.80	1.00	0.90	0.75	0.80	0.75	0.00
MEAN VEL.8 (f/s)	0.00	0.38	0.80	1.00	0.90	0.78	0.75	0.78	0.00
MEAN VEL (f/s)	0.00	0.44	0.75	0.80	0.75	0.71	0.70	0.64	0.00
MEAN VEL (m/s)	0.000	0.135	0.227	0.244	0.229	0.217	0.213	0.194	0.000
L/MEAN DEPTH (m)	0.000	0.100	0.275	0.450	0.613	0.650	0.763	0.575	-
L/MEAN WIDTH (m)	0.00	1.70	1.00	1.00	1.00	1.00	1.00	1.00	-
L/SEC. AREA (m2)	0.00	0.17	0.28	0.45	0.61	0.65	0.76	0.58	-
R/MEAN DEPTH (m)	0.000	0.225	0.350	0.538	0.650	0.688	0.725	0.250	-
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00	-
R/SEC. AREA (m2)	0.00	0.23	0.35	0.54	0.65	0.69	0.73	0.50	-
S/AREA (m2)	0.00	0.40	0.63	0.99	1.26	1.34	1.49	1.08	-
TOTAL AREA (m2)	0.0	0.4	1.0	2.0	3.3	4.6	6.1	7.2	-
S/DISCHARGE(m3/s)	0.00	0.05	0.14	0.24	0.29	0.29	0.32	0.21	-
TOTAL DIS. (m3/s)	0.00	0.05	0.20	0.44	0.72	1.02	1.33	1.54	-

WATER LEVEL (f) : 2.88 WATER LEVEL (m) : 0.88
 TOTAL DISCHARGE : 1.54 MEAN VELOCITY (m/s) : 0.21

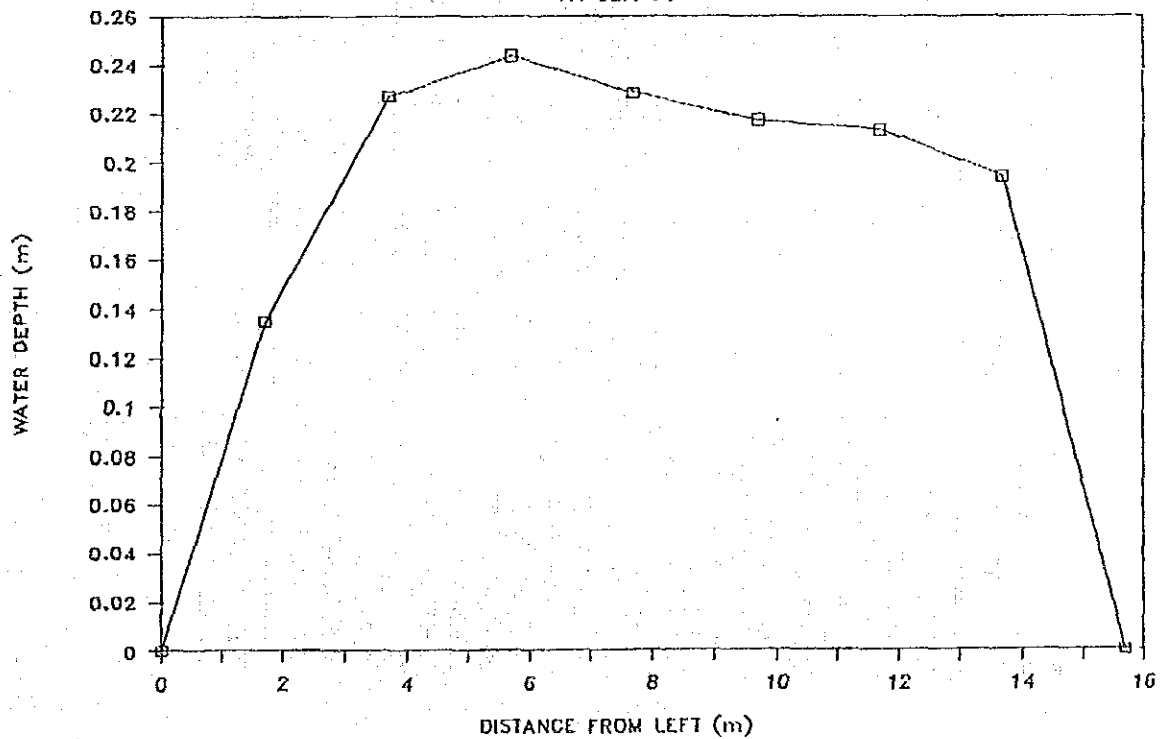
WATER DEPTH (4-120)

17/SEP/91



VELOCITY (4-120)

17/SEP/91



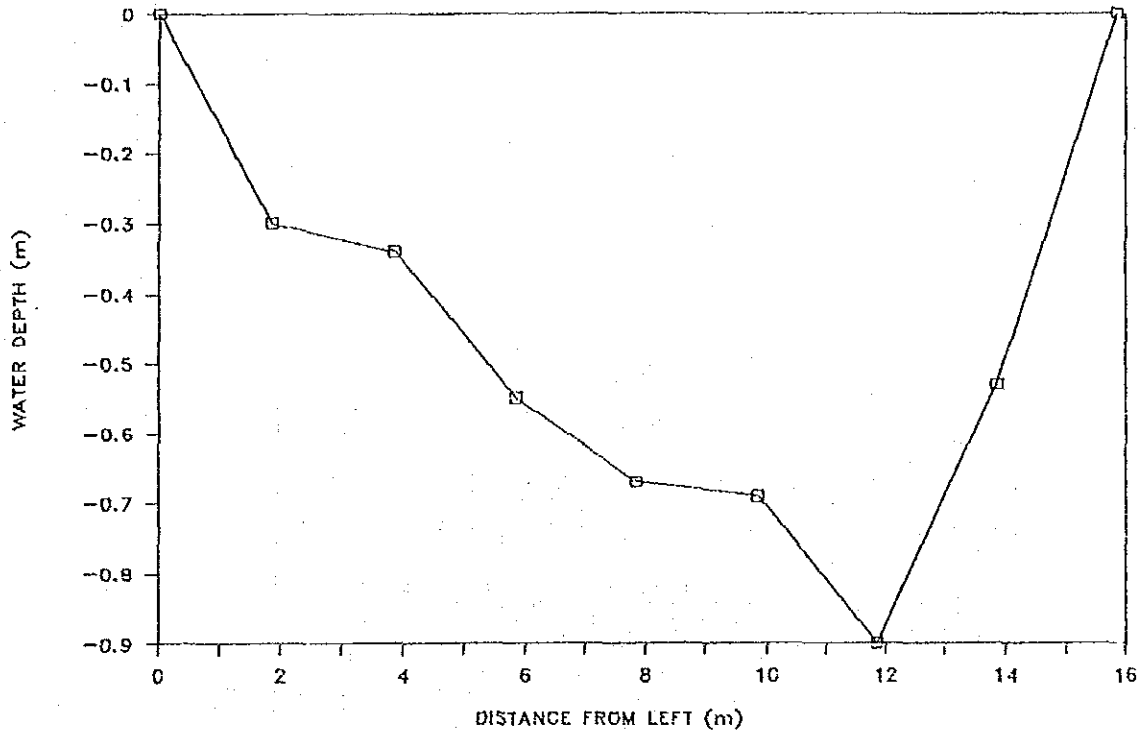
FLOW MEASUREMENT ST. : 4-120 MWAMBASHI 19/OCT/91

ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-R
WATER DEPTH (m)	0.30	0.34	0.55	0.67	0.69	0.90	0.53	0.00
SE/WIDTH (m)	1.85	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	1.85	3.85	5.85	7.85	9.85	11.85	13.85	15.85
VELOCITY.2-1(f/s)	0.10	0.90	0.92	1.00	0.72	0.80	0.50	0.00
VELOCITY.2-2(f/s)	0.15	0.90	0.92	1.00	0.72	0.80	0.50	0.00
MEAN VEL.2 (f/s)	0.13	0.90	0.92	1.00	0.72	0.80	0.50	0.00
VELOCITY.8-1(f/s)	0.09	0.85	0.82	0.80	0.70	0.70	0.45	0.00
VELOCITY.8-2(f/s)	0.09	0.85	0.82	0.80	0.70	0.75	0.45	0.00
MEAN VEL.8 (f/s)	0.09	0.85	0.82	0.80	0.70	0.73	0.45	0.00
MEAN VEL (f/s)	0.11	0.88	0.87	0.90	0.71	0.76	0.48	0.00
MEAN VEL (m/s)	0.033	0.267	0.265	0.274	0.216	0.232	0.145	0.000
L/MEAN DEPTH (m)	0.000	0.150	0.330	0.498	0.640	0.685	0.848	0.623
L/MEAN WIDTH (m)	0.00	1.85	1.00	1.00	1.00	1.00	1.00	-
L/SEC. AREA (m2)	0.00	0.28	0.33	0.50	0.64	0.69	0.85	0.62
R/MEAN DEPTH (m)	0.000	0.310	0.393	0.580	0.675	0.743	0.808	0.265
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	2.00	-
R/SEC. AREA (m2)	0.00	0.31	0.39	0.58	0.68	0.74	0.81	0.53
S/AREA (m2)	0.00	0.59	0.72	1.08	1.32	1.43	1.66	1.15
TOTAL AREA (m2)	0.0	0.6	1.3	2.4	3.7	5.1	6.8	7.9
S/DISCHARGE(m3/s)	0.00	0.02	0.19	0.29	0.36	0.31	0.38	0.17
TOTAL DIS. (m3/s)	0.00	0.02	0.21	0.50	0.86	1.17	1.55	1.72

WATER LEVEL (f) : 3.25 WATER LEVEL (m) : 0.99
 TOTAL DISCHARGE : 1.72 MEAN VELOCITY (m/s) : 0.22

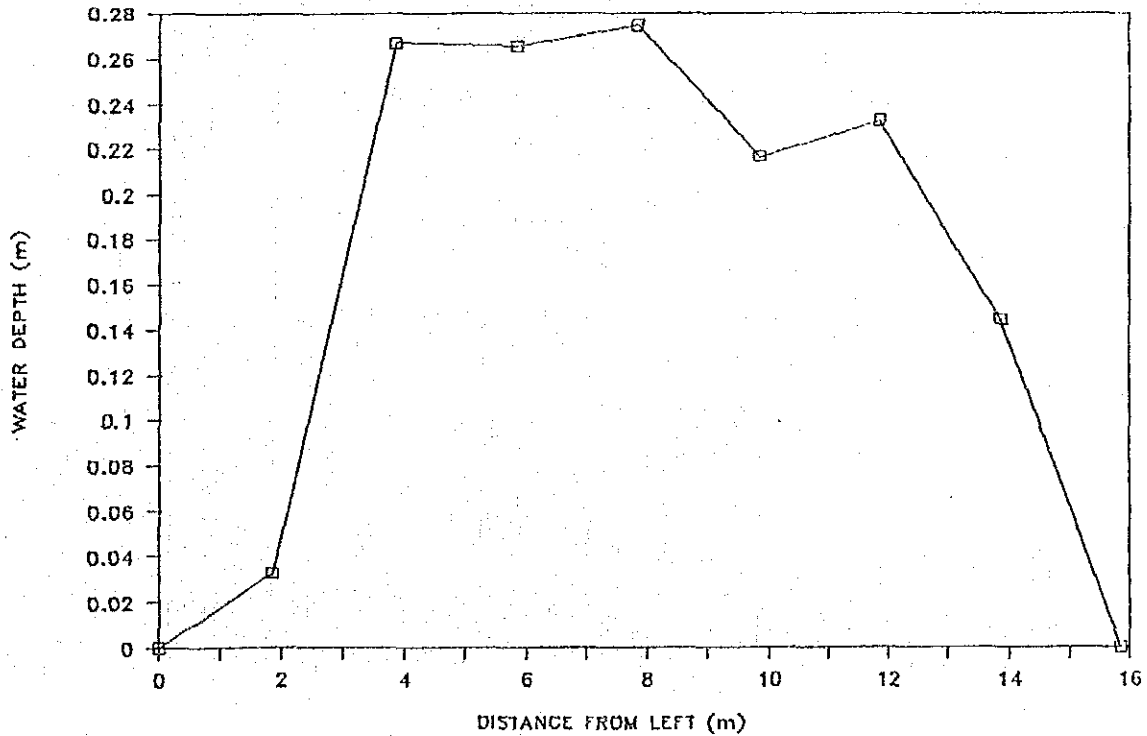
WATER DEPTH (4-120)

19/OCT/91



VELOCITY (4-120)

19/OCT/91



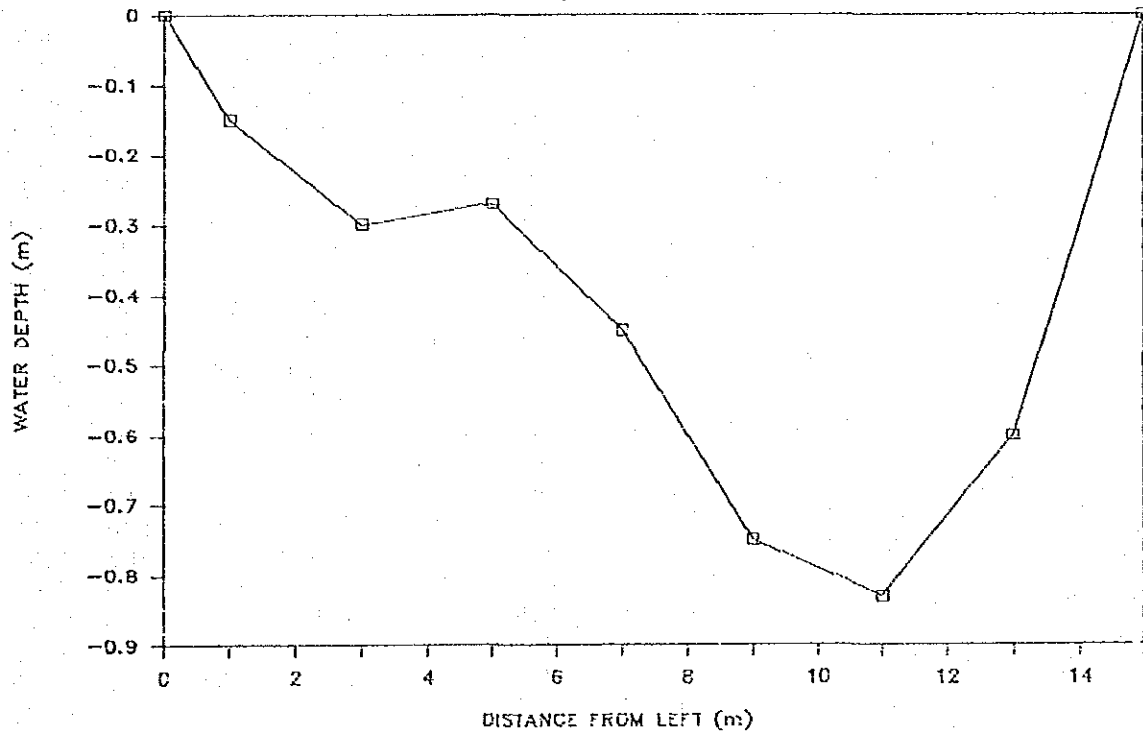
ITEMS	NO-1	NO-2	NO-3	NO-4	NO-5	NO-6	NO-7	NO-R
WATER DEPTH (m)	0.00	0.30	0.27	0.45	0.75	0.83	0.60	0.00
SE/WIDTH (m)	0.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
TOTAL SE/WIDTH(m)	0.00	3.00	5.00	7.00	9.00	11.00	13.00	15.00
VELOCITY.2-1(f/s)	0.00	-	-	-	-	-	-	0.00
VELOCITY.2-2(f/s)	0.00	-	-	-	-	-	-	0.00
MEAN VEL.2 (f/s)	0.00	-	-	-	-	-	-	0.00
VELOCITY.8-1(f/s)	0.00	0.40	1.00	1.20	0.90	0.80	0.60	0.00
VELOCITY.8-2(f/s)	0.00	0.40	1.10	1.20	0.90	0.80	0.60	0.00
MEAN VEL.8 (f/s)	0.00	0.40	1.05	1.20	0.90	0.80	0.60	0.00
MEAN VEL (f/s)	0.00	0.40	1.05	1.20	0.90	0.80	0.60	0.00
MEAN VEL (m/s)	0.000	0.122	0.274	0.320	0.366	0.274	0.244	0.183
L/MEAN DEPTH (m)	0.000	0.075	0.263	0.278	0.405	0.675	0.810	0.658
L/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
L/SEC. AREA (m2)	0.00	0.08	0.26	0.28	0.41	0.68	0.81	0.66
R/MEAN DEPTH (m)	0.000	0.188	0.293	0.315	0.525	0.770	0.773	0.300
R/MEAN WIDTH (m)	0.00	1.00	1.00	1.00	1.00	1.00	1.00	2.00
R/SEC. AREA (m2)	0.00	0.19	0.29	0.32	0.53	0.77	0.77	0.60
S/AREA (m2)	0.00	0.26	0.56	0.59	0.93	1.45	1.58	1.26
TOTAL AREA (m2)	0.0	0.3	0.8	1.4	2.3	3.8	5.4	6.6
S/DISCHARGE (m3/s)	0.00	0.03	0.15	0.19	0.34	0.40	0.39	0.23
TOTAL DIS. (m3/s)	0.00	0.03	0.18	0.37	0.71	1.11	1.50	1.73

WATER LEVEL (f) : 2.79 WATER LEVEL (m) : 0.85
TOTAL DISCHARGE : 1.73 MEAN VELOCITY(m/s) : 0.26

NOTE : ALL SECTIONS ARE APPLIED FOR 0.6 DEPTH METHOD.

WATER DEPTH (4-120)

24/NOV/91



VELOCITY (4-120)

24/NOV/91

