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THE JAPANESE REPUBLIC OF BANGLADESH
PROJECT COORDINATION ORGANIZATION

INVESTIGATION STUDY ON
GROWTH OF KAKA PRODUCTION OF
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THE PEOPLE'S REPUBLIC OF BANGLADESH
FLOOD PLAN COORDINATION ORGANIZATION

FEASIBILITY STUDY
ON
GREATER DHAKA PROTECTION PROJECT
(STUDY IN DHAKA METROPOLITAN AREA)
OF
BANGLADESH FLOOD ACTION PLAN NO.8A

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DATA BOOK I
SUPPORTING REPORTS C,D,E,F,H AND I

JUNE 1992

JAPAN INTERNATIONAL COOPERATION AGENCY

国際協力事業団

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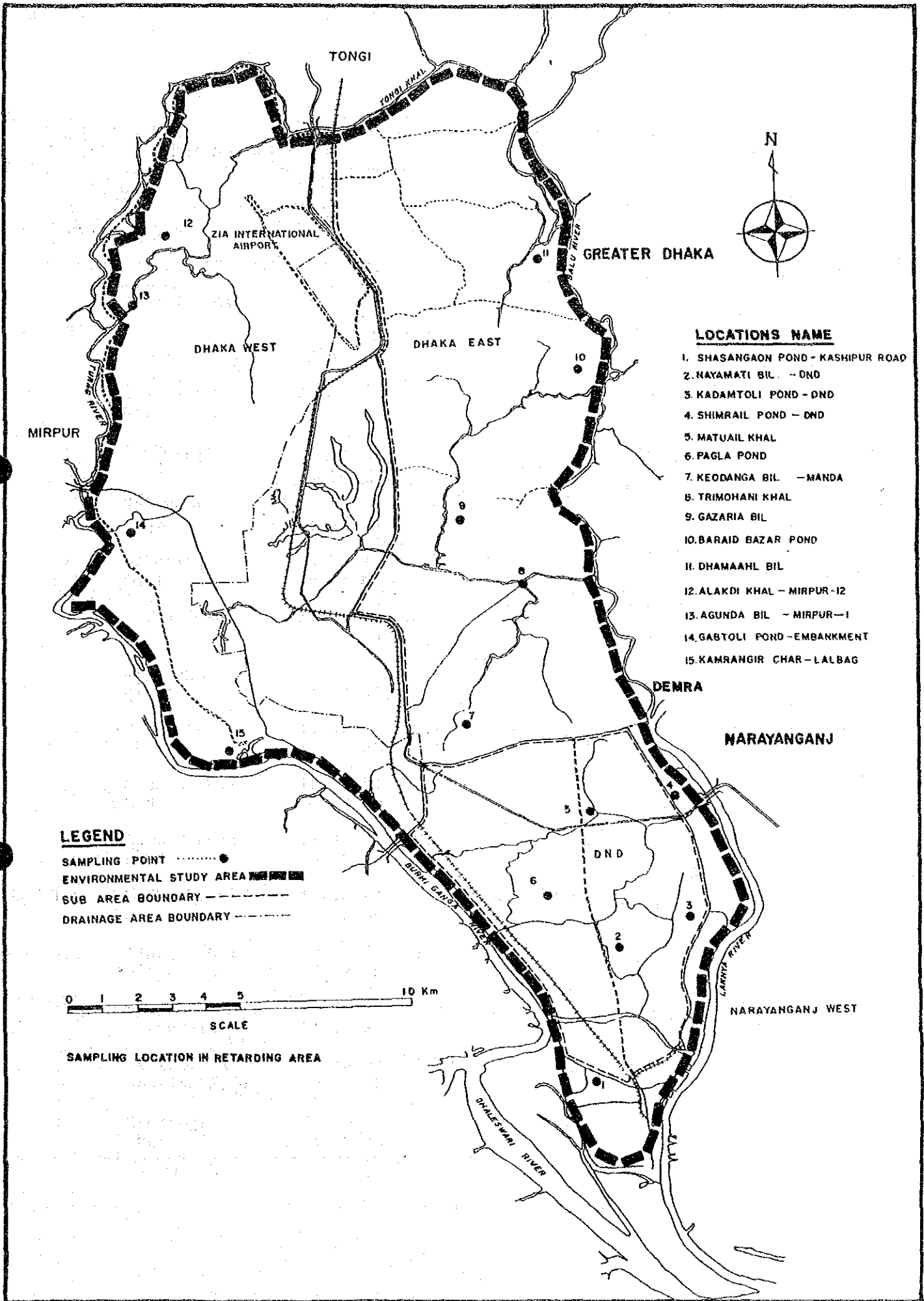
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Data CD 1 : Water Quality



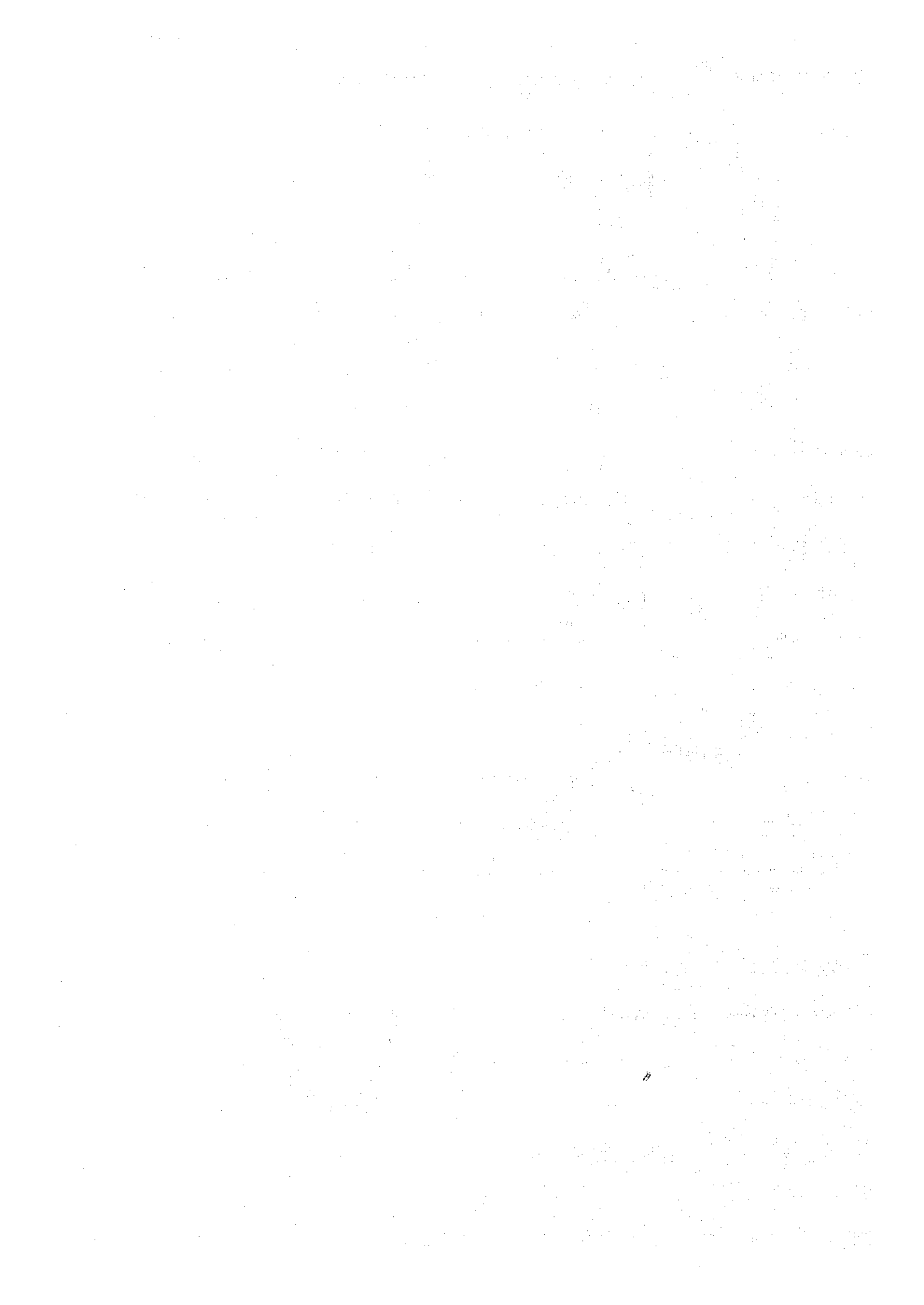


Table 1 : Result of on-site test of surface water samples collected from different locations at flood season (October, 1991)

Sampling		Date Time	Temp cels	Color Pt-Co Colour Unit	Odour	Turbi-dity NTU/FTU	pH	EC μ mho/cm	TDS mg/1
No.	Location								
1.	Shasongaon Narayanganj	20-10-91 9-20 AM	28.4	122	Not Bad	<25 28	7.7	290.4	148
	"	2-11-91 9-30 AM	28.1	50	"	30 15	7.7	397.0	156
2.	Nayamati Bil	22-10-91 9-55 AM	29.2	40	"	<25 10	7.0	260.1	134
3.	Kadamtoli Pond	22-10-91 9-25 AM	28-8	185	"	<25 8	7.0	220.0	112.2
4.	Shimrail Pond	22-10-91 8-55 AM	25.9	4	"	<25 8	7.2	190.2	97.2
5.	Matuail Khal	22-10-91 8-25 AM	27.7	170	"	37 40	7.0	120.1	63.7
6.	Pagla Pond	20-10-91 9-45 AM	28.6	80	"	42 26	7.0	380.4	193
7.	Keodanga Bil Manda	12-10-91 11-45 AM	31.4	52	"	<25 16	7.0	167.4	83.8
8.	Trimohani Khal	12-10-91 11-45 AM	30.4	34	"	<25 11	7.6	112.9	56.8
9.	Gazaria Bil Mad	12-10-91 8-43 AM	30.0	58	"	<25 11	7.0	70.5	30
10.	Baraid Bazar Pond	12-10-91 9-39 AM	30.7	41	"	<25 8	7.0	51.3	25.6
11.	Dhamaahl Bil	12-10-91 9-02 AM	31-3	64	"	<25 7	7.3	49.4	24.7
12.	Alakdi Khal Mirpur-12	22-10-91 12-22 PM	29.4	57	"	<25 7	7.1	165.8	82.9
13.	Agunda Bil Mirpur-1	14-10-91 11-10 AM	28.2	209	"	<25 65	7.0	93.7	46.8
14.	Gabtoli Bus Station Pond	14-10-91 10-15 AM	27.9	77	"	60 30	6.9	218.0	109.3
15.	Kamrangir Char	20-10-91 11-30 AM	31.6	191	"	130 44	7.0	90.5	47.7

Table 2 : Results of Laboratory analysis of surface water samples collected from different locations at flood season (October, 1991)

Sampling		S.S	BOD	COD	Or-N	NH-N	FC	DO
No.	Location	mg/l	mg/l	mg/l	mg/l	mg/l	No/100 ml	mg/l
1.	Shasongoan Pond	46	5.0	16	1.39	1.28	2.0x10 ³	0.4
	"	52	37.0	84	1.31	1.20	1.4x10 ⁴	0.6
2.	Nayamati Bil	34	0.75	16	0.72	1.01	7.1x10 ³	4.9
3.	Kadamtoli Pond	28	2.85	20	1.05	1.12	3.5x10 ²	5.8
4.	Shimrail Pond	26	4.0	8	1.42	1.30	1.0x10 ⁴	2.9
5.	Matuail Khal	32	5.65	12	0.67	1.38	9.0x10 ⁴	3.1
6.	Pagla Pond	42	8.5	20	1.14	1.13	1.3x10 ³	2.3
7.	Keodanga Bil	26	4.2	24	1.84	0.23	9.0x10 ³	7.4
8.	Trimohani Khal	23	4.0	14	0.84	1.03	4.4x10 ³	7.9
9.	Gazaria Bil mad	18	3.9	16	0.97	0.18	<1.0x10 ²	4.3
10.	Baraid Bazar Pond	20	2.0	20	1.72	0.88	2.0x10 ⁴	7.5
11.	Dhamaahi Bil	15	2.0	12	1.19	0.08	8.0x10 ³	7.1
12.	Alakdi Khal	32	0.65	16	1.55	0.53	2.5x10 ³	5.1
13.	Agunda Bil	18	2.0	8	1.67	0.24	7.0x10 ²	4.9
14.	Gabtoli Pond	32	4.0	12	1.95	1.50	5.7x10 ³	5.8
15.	Kamrangir Char	33	1.3	12	1.52	2.28	2.0x10 ⁴	5.8

Table 3 : Result of on-site test of surface water samples collected from different locations at dry season (February, 1992)

Sampling		Date Time	Temp cels	Color Pt-Co Colour Unit	Odour	Turbi-dity NTU/FTU	pH	EC μ mho/cm	TDS mg/l
No.	Location								
1.	Shasongaon Pond Narayanganj	23-02-92 11.55 AM	24.3	18	Not Bad	<25 18	7.0	406	203
2.	Nayamati Bil, Narayanganj	29-02-92 10.30 AM	21.3	139	"	75 41	7.4	107	536
3.	Kadamtoli Pond, N.gonj.	23-02-92 11-15 AM	23.4	31	"	<25 15	7.3	480	239
4.	Shim rail Pond, N.gonj	23-02-92 10-50 AM	22.9	19	"	<25 67	6.8	751	375
5.	Matuial Khal DND	29-02-92 9-45 AM	20.2	60	"	32 26	7.2	777	389
6.	Pagla pond	29-02-92 11-40 AM	23.2	20	"	<25 27	7.6	543	272
7.	Keodanga Bil, Manda	17-02-92 10-45 AM	23.2	43	Object-ionable	<25 3	7.2	328	263
8.	Trimohani Khal	17-02-92 11-50 AM	23.6	34	"	50 39	7.6	261	230
9.	Gazaria Bil Mad	24-02-92 10-39 AM	22.9	276	Not Bad	110 49	7.0	394	197
10.	Baraid Bozeu Pond	24-02-92 11-13 AM	23.0	258	"	30 90	7.0	382	191
11.	Dhamaahl Bil	24-02-92 12-40 P.M	24.2	200	"	<25 80	7.2	133	64.1
12.	Alakdi Khal Mirpur-12	23-02-92 9-15 AM	21.0	89	"	200 38	7.3	265	132
13.	Agunda Bil Mirpur-1	16-02-92 10-26 AM	22.9	100	"	<25 48	6.9	785	392
14.	Gabtoli Bus Station, Pond	16-02-92 9-10 AM	21.0	19	"	120 77	7.3	851	425
15.	Kamrangir Char	16-02-92 12-00 AM	24.0	22	"	<25 6	7.4	558	279

Table 4 : Results of Laboratory analysis of surface water samples collected from different locations at dry season (February, 1992)

Sampling		S.S	BOD	COD	Or-N	NH-N	FC	DO
No.	Location	mg/l	mg/l	mg/l	mg/l	mg/l	No/100 ml	mg/l
1.	Shasongoan Pond Narayanganj	42	1.0	12.0	1.01	0.4	2.2x10 ²	4.4
2.	Nayamati Bil Narayanganj	92	15.2	36.0	1.12	1.0	8.0x10 ²	2.3
3.	Kadamtoli Pond	52	2.9	12.0	1.05	0.5	7x10 ⁴	6.0
4.	Shimrail Pond	53	2.0	8.0	0.93	0.3	3x10 ⁴	5.0
5.	Matuail Khal	95	12.5	27.0	0.64	1.8	1.0x10 ²	3.6
6.	Pagla Pond	42	1.4	16.0	0.66	0.38	1.4x10 ³	6.1
7.	Keodanga Bil	110	50.0	125.0	0.96	24.0	1.8x10 ⁶	0.0
8.	Trimohani Khal	105	54.5	175.0	1.92	18.5	2.7x10 ⁶	0.0
9.	Gazaria Bil mad	88	2.4	12.0	0.54	1.0	8.0x10 ²	4.6
10.	Baraid Bazar Pond	45	0.7	8.0	0.6	1.5	1.2x10 ³	6.1
11.	Dhamaahl Bil	49	0.3	4.0	0.58	1.0	6.0x10 ²	5.9
12.	Alakdi Khal	100	15.05	42.0	1.16	0.7	3.5x10 ⁴	1.4
13.	Agunda Bil	24	1.6	8.0	0.36	4.25	1.4x10 ³	7.1
14.	Gabtoli Pond	43	11.5	44.8	1.44	6.00	4x10 ²	3.4
15.	Kamrangir Char	22	7.7	10.0	0.41	15.58	3x10 ⁴	2.7

Table-5 : General description of the selected sampling locations

Sl. No.	Location	Name of Bil/Khal/Pond/River	Description of location
1.	Shasongaon	Shasongaon Pond	Pourashava pond, south side of Mannan Brick field, 30 from the electric poll. Kashipur road, Panchaboti, Narayanganj.
2.	Nayamati	Nayamati Bil	Near Ambor Alis Pond 10 m from the electric tower, 8 m from the bank Godnail, Narayanganj.
3.	Kadamtoli	Safar Alis Pond	West side of south Kadamtoli, 8 m from the bank. DND, Narayanganj.
4.	Shimrail	Shimrail Pond	East side of the DND Khal, 10 m back side of Rolling mill. Shimrail, DND.
5.	Matuail	Matuail Khal	Near Sign Board, Dhaka-Narayanganj connecting Road, 30 m away from Dhaka - Chittagong highway.
6.	Pagla	Pagla Pond	South side of WASA Treatment plant, 40 m from the pumping station and 80 m from electric tower. Pagla.
7.	Manda	Keodanga Bil	Near Manda Mosque. Dhaka.
8.	Trimohani	Junction of Debdulal Khal, Dholai Khal and Begunbari Khal	Near village Naserabad, 5 m from the bank. Dhaka.
9.	Mad	Gagaria Bil	North west side of village Fakir Khal and Magairda. Dhaka.
10.	Baraid Bazar	Beraid Bazar Pond	South side of Baraid bazar Big Pond. Dhaka.
11.	Dhamaahl Bil	Dhamaahl Bil	West side of Village Mastul near wooden Bridge.
12.	Alakdi	Alakdi Khal	North-East side of the village Alakdi, Mirpur-12, Dhaka.
13.	Agunda	Agunda Bil	5 m from the Embankment sluice gate Near Botanical Garden, Section-1, Mirpur, Dhaka.
14.	Gabtoli	Gabtoli Pond	South east side of Gabtoli Bus Station, 100 m from corner of embankment. Dhaka.
15.	Kamrangir Char	Buriganga River	Middle of embankment and Hafiz Flour Mills.

Data CD 2 : Ecology

Table 1 : Aquatic plants showing their intensity in the survey area

These can be arbitrarily categorized for convenience as - a) floating, b) completely submerged, c) partly floating and partly submerged, and d) marsh plants on the edges of water body.

Sl. No.	Species	Local/English Name	Intensity in the survey area	Economic Importance
(a) Floating Species				
1.	<i>Eichhornia crassipes</i>	Kachuri pana / water hyacinth	VC	Organic manure, cattle feed, shelter for fish
2.	<i>Hygroryza aristata</i>	Jangli dhan	C	
3.	<i>Ipomoea aquatica</i>	Kalmi	C	Vegetable green
4.	<i>Lemna</i> spp.	Khudipana/Duckweed	VC	Food for birds
5.	<i>Nymphoides</i> sp.	Chand mola	VC	
6.	<i>Pistia stratiotes</i>	Topa pana	VC	
7.	<i>Spirodela</i> sp.		C	Food for ducks
8.	<i>Salvinia cucullata</i>	Indurkani pana	VC	
9.	<i>S. natans</i>	Indurkani pana	VC	
10.	<i>Wolffia arrhiza</i>	Guri pana/Duck weed	F	Food for many aquatic birds
(b) Completely submerged				
11.	<i>Ceratophyllum</i> sp.	Jhanghi	C	Shelter for fish fry
12.	<i>Myriophyllum</i> sp.	Jhanghi	C	Shelter for fish fry
13.	<i>Ottelia alismoides</i>	Panikola	C	Fruits edible
14.	<i>Vallisneria spiralis</i>	Patajhanghi	VC	Shelter for fish
(c) Partly submerged				
15.	<i>Aeschynomene aspera</i>	Shola	F	Stems used in cottage industries
16.	<i>Alpinia allughas</i>	Tara	R	Stems edible
17.	<i>Aponogeton appendiculatus</i>	Ghentu	C	edible Underground stems edible
18.	<i>Hydrilla verticillata</i>	Kureli	VC	Shelter for fish and fish fry
19.	<i>Leersia hexandra</i>	Arali	C	Grains edible
20.	<i>Najas</i> sp.		C	Shelter for fish
21.	<i>Nechamandra alternifolia</i>	Rasna jhanghi	C	
22.	<i>Nymphaea nouchali</i>	Shapla/Water lily	VC	Food plant
23.	<i>Panicum paludosum</i>	Barati	C	Good forage for cattle
24.	<i>Potamogeton mucronatus</i>		VC	
25.	<i>Utricularia</i> sp.	Jhanghi	C	Shelter for fish
(d) Marsh plants on the edges of water body				
26.	<i>Alternanthera philoxeroides</i>	Malancha	VC	Vegetable green
27.	<i>Enhydra fluctuans</i>	Helencha	R	Vegetable green
28.	<i>Ipomoea fistulosa</i>	Dhol kalmi	VC	Hedge plant
29.	<i>Limnophila heterophylla</i>		C	
30.	<i>Monochoria hastata</i>	Bara nukha	C	
31.	<i>Sesbania sesban</i>	Joganti	C	Fire wood plant, flowers edible

Table 2 : Terrestrial Species

These can be further classified according to their habitats into a) trees, b) shrubs, c) climbers, and d) herbaceous weeds (including grasses).

Sl. No.	Species	Local/English Name	Intensity in the survey area	Economic Importance
(a) Tree Species				
1.	<i>Acacia auriculiformis</i>	Akash moni	C	Fire wood plant
2.	<i>A. nilotica</i>	Babla	C	Yields timber, fire wood
3.	<i>Aegle marmelos</i>	Bel	O	Fruits edible
4.	<i>Alangium salvifolium</i>	Ankura	C	
5.	<i>Albizia lebbeck</i>	Siris	C	Yields timber
6.	<i>Artocarpus heterophyllus</i>	Kathal/Jack fruit tree	VC	Edible fruits; timber
7.	<i>Barringtonia sp.</i>	Hijol	C	Timber useful
8.	<i>Bombax ceiba</i>	Shimul/Red silk cotton	C	Yields silk cotton
9.	<i>Borassus flabellifer</i>	Tal/Palmyra palm	C	timber
10.	<i>Cassia fistula</i>	Sonali	C	Yields timber fruits
11.	<i>Cocos nucifera</i>	Narikel/Coconut	VC	Ornamental tree
12.	<i>Dalbergia sissoo</i>	Shishu	C	Yields fruits, oil fibre
13.	<i>Diospyros peregrina</i>	Gab	C	Timber tree
14.	<i>Erythrina variegata</i>	Madar	VC	Edible fruits
15.	<i>Ficus benghalensis</i>	Bot/Banyan tree	VC	Sedge plant
16.	<i>F. comosa</i>		VC	Shade tree
17.	<i>F. hispida</i>	Kak dumur	C	
18.	<i>F. religiosa</i>	Assawath	VC	Shade tree
19.	<i>F. rumphii</i>	Gaya Assawath	VC	Shade tree
20.	<i>Flacourtia indica</i>	Benchi	C	Edible fruits
21.	<i>Gelonium multiflorum</i>		C	
22.	<i>Mangifera indica</i>	Am/Mango	VC	Yields edible fruits, timber
23.	<i>Musa sapientum</i>	Kola/Banana	VC	Food plant
24.	<i>Phoenix sylvestris</i>	Khejur/Country date	VC	Yields juice and jaggery
25.	<i>Samanea saman</i>	Rendigach/Rain tree	VC	Timber tree
26.	<i>Streblus asper</i>	Shoura	VC	Yields firewood
27.	<i>Swietenia mahagoni</i>	Mahogani	VC	Timber tree
28.	<i>Syzygium cumini</i>	Kalojam/Indian black berry	VC	Edible fruits, timber
29.	<i>Tamarindus indica</i>	Tetul/Tamarind	C	Timber, and edible pods
30.	<i>Trewia nudiflora</i>	Pitali	C	
31.	<i>Zanthoxylum rhetsa</i>	Bajna	F	
32.	<i>Zizyphus mauritiana</i>	Kul, Boroi/Indian plum	VC	Food plant, fire wood
(b) Shrubs				
33.	<i>Bambusa sp.</i>	Bans/Bamboo	VC	Used for construction
34.	<i>Cajanus cajan</i>	Arhar/Pigeon pea	C	Pulse crop
35.	<i>Calamus viminalis var. fasciculatus</i>	Bet/Rattan	C	Used in cottage industry
36.	<i>Derris sp.</i>	Noalata	C	

Sl. No.	Species	Local/English Name	Intensity in the survey area	Economic Importance
37.	<i>Glycosmis arborea</i>	Matkila	VC	Fire wood
38.	<i>Jatropha curcas</i>	Bagh bherenda	VC	
39.	<i>J. gossypifolia</i>	Lal bherenda	VC	
40.	<i>Phyllanthus reticulatus</i>	Sitki	VC	
41.	<i>Sesbania sesban</i>	Bakphul	C	Fire wood, flowers Planted as hedge
42.	<i>Vangueria spoinosa</i>	Maina	C	
43.	<i>Vetiveria zizanioides</i>	Bena	VC	
(c) Climbers				
44.	<i>Lablab niger</i>	Shim/Bean	VC	Food plant
45.	<i>Luffa cylindrica</i>	Dundul/Bath sponge	VC	Food plant
46.	<i>Herremia hederacea</i>		F	
47.	<i>Momordica charantia</i>	Karela/Bitter gourd	C	Yields vegetable
48.	<i>Pothos scandens</i>	Batilata	F	Medicinal plant
49.	<i>Stephania hernandifolia</i>	Nimukha	F	
50.	<i>Tiliacora racemosa</i>		C	
Herbaceous weeds				
51.	<i>Achyranthes aspera</i>	Apang	C	Medicinal plant
52.	<i>Ageratum conyzoides</i>	Ochunti	VC	Vegetable green
53.	<i>Alternanthera sessilis</i>	Sachi sak	F	
54.	<i>Aneilema nudiflora</i>		VC	
55.	<i>Axonopus cimicinus</i>		VC	Forage for cattle
56.	<i>Blumea lacera</i>	Kukur singha	C	Medicinal
57.	<i>B. membranacea</i>		C	
58.	<i>Cassia occidentalis</i>	Bara kalkesunda	C	
59.	<i>C. tora</i>	Chakunda	C	
60.	<i>Clerodendrum viscosum</i>	Bhat	VC	
61.	<i>Commelina bengalensis</i>	Kanchira	C	
62.	<i>Cynodon dactylon</i>	Durba/Doob grass	VC	
63.	<i>Cyperus rotundus</i>	Mutha	VC	
64.	<i>Datura metel</i>	Dhutra	C	
65.	<i>Euphorbia thymifolia</i>	Swet karui	C	
66.	<i>Hygrophila polysperma</i>		C	
67.	<i>Hyptis suaveolens</i>	Bilati Tulsai	C	
68.	<i>Leucas lavendulifolia</i>	Danda kalas	VC	Medicinal
69.	<i>Lippia geminata</i>		C	Medicinal
70.	<i>Ludwigia hyssopifolia</i>		VC	
71.	<i>Melochia corchorifolia</i>	Tiki okra	C	
72.	<i>Rotala rotundifolia</i>		C	
73.	<i>Rungia pectinata</i>	Pindi	C	
74.	<i>Scoparia dulcis</i>	Ban dhoni	C	
75.	<i>Solanum indicum</i>	Tit begun	C	
76.	<i>Solanum khasianum</i>		F	
77.	<i>S. nigrum</i>	Phuti begun	C	
78.	<i>S. torvum</i>	Goth begun	F	
79.	<i>Synedrella nodiflora</i>		C	
80.	<i>Urena lobata</i>	Ban okra	C	
81.	<i>Vernonia patula</i>	Kukshim	VC	

Amphibia

Table 3 : Amphibian Species in FAP 8A

Order Anura, Family, Ranidae

English Name	Scientific Name	Status	Distribution
Bull Frog	<i>Rana tigrina</i>	FC	W
Creechet Frog	<i>R. limnocharis</i>	FC	W
Skeeper Frog	<i>R. cyanophlictis</i>	C	W
Goat Frog	<i>R. titlery</i>	F	W
	Family - Rhacophoridae		
Tree Frog	<i>Racophorus bimaculatus</i>	F	W
	Family - Microhylidae		
China Frog	<i>Microhyla ornata</i>	F	Fa
	Family - Bufonidae		
Toad	<i>Bufo melanostictus</i>	C	W

C = Common; FC = Fairly Common; F = Few; Fa = Flood area; W = Wide.

Table 4 : STATUS AND DISTRIBUTION OF REPTILES IN FLOOD SEASON OF THE GREATER DHAKA PROTECTION PROJECT AREA FLOD ACTION PLAN NO.8A.

Sl. No.	English Name	Scientific name	Status	Distribution	Habitat
CLASS REPTILIA ORDER - CHELONI FAMILY - TRIONYCHIDAE					
Aquatic					
1.	Spotted Flap Shell Tortoise	Lissemys punctata	F	DND	Aquatic muddy soil
2.	Peacock Soft Shell Turtle	Trionyx hurum	F	DND	Aquatic
3.	Common Roofed Tortoise	Kachuga tecta	FC	W	Aquatic
Terrestrial					
ORDER - SQUAMATA SUB-ORDER - LACERTILIA FAMILY - GEKKONIDAE					
Lizards					
4.	Wall Gecko	Geokko gecoko	FC	Cab	Trees
5.	Common House Lizard	Hemidactylus flaviviridis	F	Oca	Walls Houses Buildings
6.	Common Wall Lizard	Hemidactylus brooki	C	W	Tree House Buildings
7.	Wart/Tree Lizard	Hemidactylus frenatus	FC	W	Trees
FAMILY - AGAMIDAE					
8.	Common Garden Lizard	Calotes versicolor	FC	W	Garden Wood Land
FAMILY - VARANIDAE					
9.	Grey Land Monitor	Varanus bengalensis	FC	Bgzk (End)	Wood Land
FAMILY - SCINCIDAE					
10.	Common Skink	Mabuya carinata	FC	W	Garden Land
NON-POISONOUS SNAKES SUB-ORDER - OPHIDIA/SERPENTES FAMILY - TYPHLOPIDAE					
11.	Common Warm Snake	Typhlops barminus	F	W	Dami Soil

Sl. No.	English Name	Scientific name	Status	Distribution	Habitat
12.	Large Warm Snake	Typhlops diardi	F	W	Demi Soil
FAMILY - COLUBRIDAE					
13.	Common Wolf Snake	Lycodon aulicus	F	KBhMa	Wall, Tree
Aquatic					
14.	Chickered Keelback Water Snake	Xenochrophis piscator	VC	W	Aquatic
15.	Olive keelback Water Snake	Atretium schistosum	FC	W	Aquatic
16.	Striped keelback Water Snake	Amphiesma stolata	FC	W	Aquatic
Terrestrial					
17.	Rat Snake	Ptyas mucosus	F	KMa	Wood land
18.	Common Bronzeback Tree Snake	Dendrelaphis Tristis	O	Ma	Wood land
Poisonous Snakes					
FAMILY - ELAPIDAE					
19.	Banded Krait	Bungarus fasciatus	F	W	Wood land
20.	Binocellate Cobra	Naja Naja Naja	FC	W	"
21.	Monocellate Cobra	Naja Naja kauothia	FC	W	"
22.	Russell's Viper	Vipera russellii	F	Ch	Land

Table 5 : STATUS (INTENSITY) AND DISTRIBUTION OF RESIDENT AND MIGRATORY BIRDS IN THE STUDY AREA.

Sl. No.	English Name	Scientific Name	Status	Distribution	Habitat
RESIDENT BIRDS					
Resident Aquatic Birds					
ORDER - CICONIFORMES					
FAMILY - ARDEIDAE					
1.	Little Green Heron	Butorides straiatus	RFC	Ba	Water edge
2.	Pond Heron	Ardeola Grayii	RFC	W	"
3.	Small egret	Egretta intermedia	RF	Ba	"
4.	Cattle egret	Bubulcus ibis	RF	Ba	Terrestrial
ORDER - ANSERIFORMES					
FAMILY - ANATIDAE					
5.*	Lesser Whisling Teal	Dendrocygna Javanica	RF	PlZl Bgl	Aquatic
ORDER - GRUIFORMES					
FAMILY - RALLIDAE					
6.	Water Rail	Rallus arquaticus	RExt	Ba Ext.	Aquatic
7.	White breasted water hen	Amaurornis phoenicurus	RF	Bg	"
ORDER - CHARADRIFORMES					
FAMILY - CHARADRIDAE					
8.	Red Water Lapwing	Vanellus indicus	RF	W	Water edge
9.	Little stint	Calidris minutus	RF	Wet land	"
FAMILY - LARIDAE					
10.	Wiskered Tern	Chlidonias hybrida	RO	Ba	"
11.	Black bellied Tern	Sterna acuticauda	F	Ba	"
ORDER - PASSERIFORMES					
FAMILY - HIRUNDINIDAE					
12.	Plain Sand Martin	Riparia paludicola	RF	Ba	"
FAMILY - FALCONIDAE					
13.	Red headed Martin	Falco chicquera	RF	DC	Wood land
14.	Large Whistling Teal	Dendrocygna bicolor	F	R	ZlPl Aquatic
15.	Comb Duck/Nukhta	Sarcodiornis melanotus	F	R	Zl "
16.	Spot Bill Duck	Anas poecilorhyncha	F	R	Zl "
17.	Cotton Teal	Netapus coromandelianus	F	R	ZlPl "

Sl. No.	English Name	Scientific Name	Status	Distribution	Habitat
Resident Terrestrial Birds ORDER - FALCONIFORMES FAMILY - ACCIPITRIDAE					
18.	Brahminy Kite	Haliastur indus	RFC	W	Watered area
19.	Grey headed Fishing Eagle	Ichthyophaga ichthyaetus	RF	Bg	"
ORDER - CORACIFORMES FAMILY - ALCEDINIDAE					
20.	Common Kingfisher	Alcedo atthis	RFC	W	Watered area
21.	Slork billed Kingfisher	Pellargepsis capensis	RF	W	"
22.	White breasted Kingfisher	Halcyon smyrnensis	RFC	W	"
ORDER - APODIFORMES FAMILY - APODIDAE					
23.	White rumped wire tailed swift	Apus pacificus	RFC	Tk Ba	Watered area
ORDER - FALCONIFORMES FAMILY - ACCIPITRIDAE					
24.	Pariah Kite	Milvus migrans goninda	RFC	W	City area
25.	White backed vulture	Gyps bengalensis	RFC	W	Wood land
26.	Crested Serpent Eagle	Spilornis cheela	F	W	"
FAMILY - FALCONIDAE					
27.	Green Fruit Pigeon	Treron phoenicoptera	RO	W	Wood land
28.	Thick billed Pigeon	Treron Carvirostra	RO	Rp	"
29.	Blue Rock Pigeon	Columba livia	RVC	W	CaCl "
30.	Ring Dove	Streptopelia decaocto	RF	W	Wood land
31.	Red Turtte Dove	Streptopelia tranquibarica	RF	Bg	"
32.	Spotted Dove	Streptopelia Chinensis	RF	W	Wood land
ORDER - PSITTACIFORMES FAMILY - PSITTACIDAE					
33.	Rose-ringed Parakeet	Psittacula krameri	RF	W	"
ORDER - CUCULIFORMES FAMILY - CUCULIDAE					
34.	Pied Crested Cuckoo	Clamator jacobinus	RF	W	"
35.	Common Hawk Cuckoo	Cuculus varius	RFC	W	"

Sl. No.	English Name	Scientific Name	Status	Distribution	Habitat
ORDER - CUCULIFORMES FAMILY - CUCULIDAE					
36.	Bay Cuckoo	<i>Cacomantis sonneratii</i>	RF	SU	"
37.	Pataintive Cuckoo	<i>Cacomantis merulinus</i>	RF	W	"
38.	Koel	<i>Eudynamys scolopacea</i>	RC	W	"
39.	Crow Pheasant	<i>Centropus sinensis</i>	RF	W	Bush "
ORDER - STRIGIFORMES FAMILY - STRIGIDAE					
40.	Barn owl	<i>Tyto alba stertens</i>	RF	W	Building, Wood land
41.	Brown Fish owl	<i>Bubo zeylonensis</i>	RO	Bg	Wood land
42.	Brown Hawk owl	<i>Ninox scutulata</i>	RF	W	Bldg."
43.	Spotted owlet	<i>Athene brama</i>	RC	W	"
ORDER - STRIGIFORMES FAMILY - STRIGIDAE					
44.	Great Eared Nightjar	<i>Eurostopodus macrotis</i>	ROC	M	Bamboo jungle
45.	Longtailed Nightjar	<i>Caprimulgus macrurus</i>	RF	MaK	Boj "
ORDER - APODIFORMES FAMILY - APODIDAE					
46.	House swift	<i>Apus affinis</i>	RC	W	Areal land
47.	Palm swift	<i>Cypsiurus parvus</i>	RC	W	"
ORDER - CORACIFORMES FAMILY - MEROPIDAE					
48.	Green Bee-eater	<i>Merops orientalis</i>	RF	W	Wl Ca "
FAMILY - CORACIIDAE					
49.	Indian Roller	<i>Coracias benghalensis</i>	RFC	W	Wl Rs "
50.	Hoopoe	<i>Upupa epops</i>	RO	W	Wl Rs.side
ORDER - PICIFORMES FAMILY - PICIDAE					
51.	Crimson breasted Barbet	<i>Megalaima asiatica</i>	RC	W	Garden,Wl
FAMILY - PICIDAE					
52.	Rufous Wood pecker	<i>Micropternus</i>	RF	Bg	Wood land
53.	Little Scally Green Wood pecker	<i>Picus myrmecophoneus</i>	RF	W	"
54.	Lesser Golden backed Wood pecker	<i>Dinopium benghalense</i>	RFC	W	"
55.	Pigmy Wood pecker	<i>Picoides macei</i>	RFC	W	"

Sl. No.	English Name	Scientific Name	Status	Distribution	Habitat
ORDER - PISSERIFORMES					
FAMILY - ALAUDIDAE					
56.	Assam Bush Lark	Mirafra assamica	RF	Bg, DND	Agriculture
57.	Ashycrowned Finch Lark	Erymopterix grisea	RO	Bg, DND	Agril. Wl
FAMILY - LANIDAE					
58.	Blackheaded Shrike	Lanius schach	RC	W	Wl, Rs, Wl & Road
FAMILY - ORIOLIDAE					
59.	Black headed Oriole	Oriolus xanthornus	RFC	W	Wl, Agril.
FAMILY - DICRURIDAE					
60.	Black Drongo	Dicrurus adsimilis	RC	W	"
61.	Bronzed Drongo	Dicrurus anacus	RF	W	Wood land
FAMILY - ARTAMIDAE					
62.	Ashy Swallow Shrike	Artamus fuscus	RF	W	Wl, & Agril.
FAMILY - STURINIDAE					
63.	Grey headed Myna	Sturnus malabaricus	RFC	W	Wood land
64.	Pied Myna	Sturnus contra	RVC	W	Garden, Road, Drainage
65.	Common Myna	Acridotheres tristis	RCC	W	Garden, Road
66.	Jungle Myna	Acridotheres fuscus	RFC	W	Agril. "
FAMILY - CORVIDAE					
67.	Tree pie	Dendrocitta vagabunda	RFC	W	Wood land
68.	House Crow	Corvus splendens	RVC	W	Rs., C. area
69.	Jungle Crow	Corvus macrorhynchos	RC	W	"
FAMILY - CAMPEPHAGIDAE					
70.	Common Wood Shrike	Tephrodornis pondicerianus	RF	Bg	Wood land
71.	Small Minivet	Pericrocotus cinnamomeus	RO	Bg	"
FAMILY - IRENIDAE					
72.	Common Lora	Aegithina tiphia	RF	SU	"
FAMILY - PYCNONOTIDAE					
73.	Redvented Bulbul	Pycnonotus cafer	RC	W	Garden, Wl, Bh
74.	Red Whiskered Bulbul	Pycnonotus jocosus	RF	Dn	Rs, Wl, Bh

Sl. No.	English Name	Scientific Name	Status	Distribution	Habitat
FAMILY - MUSCICAPIDAE					
75.	Common Babbler	Turdoides caudatus	RF	Bg	Wood land
76.	Jungle Babbler	Turdoides striatus	RF	W	Wood land
77.	White throated Fantailed Flycatcher	Raipidura albicollis	RF	Bg	Wl, Bush
78.	Tawny flanked longtailed warbter	Prinia subflava	RF	OP	Agril. "
79.	Brown Bush Warbler	Bradypterus	RFC	W	Wood land
80.	Tailor Bird	Orthotomus satorius	RFC	W	"
81.	Magpie Robin	Copsychus saularis	RC	W	Rs. "
82.	Orange headed ground Thrush	Zoothera citrina	RF	Za	" Zoo
FAMILY - PARIDAE					
83.	Grey Tit				
FAMILY - DICAETIDAE					
84.	Tickell's Flower Pecker	Dicaeum erythrorhynchos	RFC	W	Wl Wood land
FAMILY - DICAETIDAE					
85.	Purple Sunbird	Nectarinia asiatica	RFC	W	Wl Wood land
86.	Purple Rumped Sun	Nectarinia zeylonica	RF	W	Wl Wood land
FAMILY - PICOEIDAE					
87.	House Sparrow	Passer domesticus	RC	W	House
88.	Baya	Ploceus philippinus	RF	W	Agril. Wl
89.	White throated Munia	Lonchura malabarica	RF	W	"
90.	Spotted Munia	Lonchura punctulata	RF	W	"
MIGRATORY BIRDS					
Migratory Aquatic Birds					
ORDER - CHARADRIFORMES					
FAMILY - CHARADRIDAE					
91.*	Marsh Sandpiper	Tringa stagnatilis	MO		Wet land Water edge
ORDER - APODIFORMES					
FAMILY - APODIDAE					
92.*	Nepal Sand Martin	Delichon nipalensis	MO	Ba	"
93.	Common Swallow	Hirundo rustica	MFC	Ba	"
FAMILY - DICAETIDAE					
94.	Forest Wagtail	Motacilla indica	MO	DUC	Wood land
95.	Yellow Wagtail	Motacilla flava	MFC	W	Wl Wet land
96.	Pied Wagtail	Motacilla alba	MC	W	

Sl. No.	English Name	Scientific Name	Status	Distribution	Habitat
FAMILY - DICAETIDAE					
97.	Pintail	Anas acuta	C	M GlPl Bgl	Aquatic
98.	Common Teal	Anas crecca	F	M	" "
99.	Mallard	A. platyrhynchus	F	M	" "
100.	Gadwall	A. strepera	F	M	" "
101.	Wigeon	A. penelope	F	M	" "
102.	Garganey	A. querquedula	F	M	" "
103.	Common Shield Duck	Tadorna tadorna	F	M	" "
104.	Shoveller	Anas clepeata	F	M	" "
105.	Common Pochard	Aythya ferina	F	M	" "
106.	White eyed Pochard	Aythya nyroca	F	M	" "
107.	Tufted Duck	Aythya fuligula	F	M	" "
108.	Little Ringed Plover	Charadrius alexandrinus	F	M Wl Ba	Water edge
109.	Kautilsh Plover	Charadrius dubius	F	M Wl Ba	"
110.	Common Sandpiper	Tringa stagnatilis	F	M Wl Ba	"
111.	Wood Sandpiper	T. glareola	F	M Wl Ba	"
112.	Fantail Suipe	Capella gallinago	F	M Wl Ba	"
113*	Little Stinct *	Calidris minutus	F	M Wl Ba	"
114.	Wire Tailed Swallow	Hirundo rustica	F	M Wl	Arial
Migratory Terrestrial Birds					
ORDER - FALCONIFORMES					
FAMILY - ACCIPITRIDAE					
115*	Large Pariah Kite	Milvus migrans lineatus	MVC	W	Dumping and wood areas
116*	Red Kite	Milvus milvus	MO	Ch	"
FAMILY - FALCONIDAE					
117*	European Kestrel	Falco tinnunculus	MF	W	DND Agril.
FAMILY - LANIDAE					
118.	Brown Shrike	Lanius cristatus	MC	W	Wl, Rs, Wl&Road
FAMILY - DICRURIDAE					
119.	Ashy Drongo	Dicrurus leucophaeus	MF	W	Wood land
FAMILY - MUSCICAPIDAE					
120.	Redbreasted Flycatcher	Muscicapa parva	MFC	W	Wood land
121.	Blue throated Flycatcher	Muscicapa rubeculoides	MO	SU	"
FAMILY - DICAETIDAE					
122.	Tree Pipit	Anthus hodgsoni	MF	W	Wood land
123.	Pied Harrier	Circus melanoleucos	F	M	Bg Wood land
124.	Osprey	Pandion haliactus	F	M	Bg "
125.	Wryneck	Jynx torquilla	F	M	Wl Water edge
126.	Baybacked Shrike	Lanius vittatus	F	M	Bg Wood land
127.	Black Red Star	Phoeniculus ochrurus	F	M	Bg "

* Asterisk marks indicate the birds present in flood and dry seasons.

Table 6 : Status and Distribution of the wild mammalian species in the study area

English Name	Scientific Name	Status	Distribution
White Tailed Shrew	<i>Suncus murinus</i>	C	W
Fruit Bat	<i>Pteropus giganteus</i>	FC	RP
False Vampire	<i>Megaderma lyra</i>	F	W
Lesser Yellow Bat	<i>Scrotophilus temminckii</i>	FC	W
Pipistrelle	<i>Pipistrellus coromandra</i>	C	W
Rhesus Macaque	<i>Macaca mulata</i>	FC	Oca
Jungle Cat	<i>Felis chaus</i>	F	W
Fishing Cat	<i>Felis viverrina</i>	F	W
Jackal	<i>Canis aureus</i>	F	W
Bengal Fox	<i>Vulpes bengalensis</i>	O	W
Large Civet	<i>Viverra zibetha</i>	F	W
Palm Civet	<i>Paradoxurus hermaphroditus</i>	F	W
Grey Mongoose	<i>Herpestes auropunctatus</i>	FC	W
Smooth Coated Otter	<i>Lutra perspicillata</i>	F	Br
Errawaddy Squirrel	<i>Callosciurus pygerythrus</i>	F	M
Three Stripped Palm Squirrel	<i>Funaebulus pennanti</i>	FC	Za
House Mouse	<i>Mus musculus</i>	FC	W
Black Rat	<i>Rattus rattus</i>	FC	W
Brown Rat	<i>Rattus norvegicus</i>	FC	W
Lesser Bandicoot	<i>Bandicota bengalensis</i>	C	W
Greater Bandicoot	<i>Bandicota indica</i>	F	W

- Note : I. Status : C = Common; FC = Fairly Common; F = Few; O = Occasional Distribution; Oca = Old City Area; RP = Ramna Park; Bra -Ballu. River Area; Za = Zoo Area.
- II. All mammals are terrestrial in habit except the otter who is semi-aquatic in habit.

Table 7 : Domestic Mammals in the study area

Name	Status	Distribution
Cow	C	W
Buffalo	F	Va
Horse	F	W
Black goat	C	W
Dog	FC	W
Cat	FC	W

Note : Va = Village area, W = Wide.

Table 8 Species composition of fishes, prawns and crabs, their status and distribution in the study area

Scientific name	Status		Distribution	
	Natural	Cultured	Natural	Cultured
Freshwater fish species				
Family - Clupeidae (clupoid)				
* 1. Gudusia chapra	VC	-	W	DND
2. Corica sobarna	F	-	W	-
Family - Engraulidae (engraulid)				
3. Setipinna phasa	F	-	W	-
Family - Notopteridae (feather back)				
4. Notopterus chitala	F	-	W	DND
* 5. Notopterus notopterus	C	-	W	"
Family - Cyprinidae (carps)				
* 6. Labeo rohita (ruhu)	VC	VC	W	"
7. Labeo calbasu	FC	FC	W	"
8. Labeo nandina	FC	F	W	"
* 9. Cirrhina mrigala (mrigal)	VC	VC	W	"
10. Cirrhina reba	F	-	W	"
* 11. Catla catla (catla)	VC	VC	W	"
* 12. Puntius sarana	C	-	W	-
* 14. Puntius ticto	C	-	W	-
* 15. Puntius stigna	C	-	W	-
* 16. Amblypharyngodon mola	C	-	W	-
17. Rahtee cotio	R	-	W	-
18. Crossochellus latius	F	-	W	-
19. Oxygaster bacaila	F	-	W	-

Scientific name	Status		Distribution	
	Natural	Cultured	Natural	Cultured
20. <i>Oxygaster phulo</i>	F	-	W	-
21. <i>Chela laubuca</i>	F	-	W	-
22. <i>Rasbora elenga</i>	R	-	W	-
23. <i>Rasbora daniconius</i>	R	-	W	-
24. <i>Botia dario</i>	F	-	W	-
25. <i>Botia dayi</i>	F	-	W	-
26. <i>Lepidocephalus guntia</i>	FC	-	W	-
Family - Bagridae (cat fish)				
* 27. <i>Mystus aor</i> (cat fish)	VC	-	W	-
28. <i>Mystus seengala</i>	C	-	W	-
* 29. <i>M. vittatus</i> (cat fish)	VC	-	W	-
30. <i>M. cavasius</i>	C	-	W	-
31. <i>M. menoda</i>	R	-	W	-
32. <i>M. tengra</i>	R	-	W	-
33. <i>Rama rama</i>	R	-	W	-
34. <i>Rita rita</i>	F(End)	-	W	-
Family - Siluridae (cat fish)				
* 35. <i>Wallago attu</i> (freshwater shark)	VC	-	W	-
* 36. <i>Ompok pabda</i> (cat fish)	VC	-	W	-
37. <i>Ompok bimaculatus</i>	F	-	W	-
Family - Schilbeidae (cat fish)				
38. <i>Clupisoma garua</i>	F	-	W	-
39. <i>Allichthys punctatus</i>	R	-	W	-
40. <i>Entropiichthys vacha</i>	FC	-	W	-
41. <i>Silonia silonda</i>	R	-	W	-

Scientific name	Status		Distribution	
	Natural	Cultured	Natural	Cultured
Family - Bagaridae (cat fish)				
42. Bagarius bagarius (cat fish)	R	-	W	-
Family - Claridae (cat fish)				
*43. Clarias batrachus (cat fish)	VC	-	W	DND NIL
Family - Heteropneustidae (cat fish)				
* 44. Heteropneustes fossilis (cat fish)	VC	-	W	-
Family - Chacidae (cat fish)				
45. Chaca chaca	R(End)	-	W	-
Family - Belonidae (belone)				
46. Xenentodon cancila	C	-	W	-
Family - Cyprinodontidae (minow)				
47. Apochelus panchax	R	-	W	-
48. Oryzias panchax	R	-	W	-
Family - Syngnathidae (pipe fish)				
49. Ichthyacampus carce	F	-	W	-
Family - Channidae (snake head)				
* 50. Channa marulius	VC	-	W	-
* 51. Channa striatus	VC	-	W	-
* 52. Channa punctatus	VC	-	W	-
53. Channa gachus	R	-	W	-
Family - Cuchiidae (mud eel)				
54. Cuchia cuchia	F	-	W	-
Family - Centropomidae (perch)				
55. Chanda baculis	F	-	W	-
56. Chanda ranga	F	-	W	-

Scientific name	Status		Distribution	
	Natural	Cultured	Natural	Cultured
Family - Nandiidae (perch)				
* 57. <i>Nandus nandus</i> (perch)	VC	-	W	-
Family - Pristolepidae (perch)				
58. <i>Badis badis</i>	F	-	W	-
Family - Gobiidae (perch)				
* 59. <i>Glossogobius giurius</i> (perch)	VC	-	W	-
60. <i>Gobius melanasonmia</i>	F	-	W	-
61. <i>Apocryptes lanceolatus</i>	F	-	W	-
62. <i>Gobiodes rubicundus</i>	F	-	W	-
Family - Anabantidae (perch)				
* 63. <i>Anabas testudineus</i> (climbing perch)	VC	-	W	-
* 64. <i>Colisa fasciatus</i> (perch)	VC	-	W	-
65. <i>Colisa chuna</i>	R	-	W	-
66. <i>Colisa lalia</i>	R	-	W	-
Family - Mugiliidae (mugil)				
67. <i>Mugil corsula</i>	F	-	W	-
68. <i>Mugil cascasia</i>	F	-	W	-
Family - Polynemidae (thead fins)				
69. <i>Polynemus paradiseus</i>	F	-	W	-
Family - Mastacembelidae (spiny eel)				
70. <i>Mastacembelus armatus</i>	C	-	W	-
71. <i>M. pancalus</i>	C	-	W	-
72. <i>Macrognathus aculeatus</i>	C	-	W	-
Family - Tetraodontidae (globe fish)				
* 73. <i>Tetraodon cutcutia</i> (globe fish)	VC	-	W	-

Scientific name	Status		Distribution	
	Natural	Cultured	Natural	Cultured
74. <i>Tetraodon patoca</i>	C	-	W	-
Freshwater prawn species				
Family - Palaemonidae				
*■ 1. <i>Macrobrachium rosenbergii</i>	C	C	W	DND NIL
2. <i>M. birmanicus</i>	R	-	W	-
3. <i>M. malcolmsonii</i>	R	-	W	-
4. <i>M. villosimanus</i>	R	-	W	-
5. <i>M. rudis</i>	F	-	W	-
* 6. <i>M. lamarre</i>	C	-	W	-
7. <i>M. dayanus</i>	R	-	W	-
8. <i>M. dolichodactylus</i>	R	-	W	-
9. <i>M. mirabilis</i>	R	-	W	-
10. <i>M. styliferus</i>	R	-	W	-
Freshwater carb species				
Family - Portunidae				
1. <i>Paratelphusa spinigera</i>	C	-	W	-
2. <i>Paratelphusa lamellifrons</i>	C	-	W	-
Exotic fish species				
Family Cyprinidae				
*■ 1. <i>Cyprinus carpio ver specularis</i>	F	F	DND	DND
(mirror carp)				
*■ 2. <i>Hypophthalmichthys molitrix</i>	F	VC	"	"
(silver carp)				
*■ 3. <i>Ctenopharyngodon idella</i>	F	C	"	"
(grass carp)				
4. <i>Oreochromis niloticus</i>	F	C	"	"
(nile perch)				
5. <i>O. mossambicus</i>	P	C	"	"
(nite perch)				

* Species of commercial value, DND = Demra Narayanganj Project, C = Common, VC = Very Common, F = Few, R = Rare, ENd = Endanger, W = Wide.

*■ Species highly profitable for culture.

Fig.1

LAND TYPE	AREA (ha)	RABI		KHARIF - I				KHARIF - II				RABI	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
HIGH LAND (9.5%)	60	FRUIT (BANANA, PAPAYA ETC)											
	1350	RABI	BORO (HYV)				T, AMAN (IV)				RABI		
MEDIUM LAND (33.4%)	340	RABI	T, AUS (HYV)				RABI						
	3755	BORO (HYV)				T, AMAN (HYV)							
	850	RABI	T, AMAN (HYV)				RABI						
LOW LAND (57.1%)	3023	BORO (L) AND (IV)											
	5440	BORO (HYV)											

PRESENT CROPPING PATTERN
G D P P

Fig.11

LAND TYPE	AREA (ha)	RABI		KHARIF - I				KHARIF - II				RABI	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
HIGH LAND (9.6%)	60	FRUIT (BANANA, PAPAYA ETC)											
	1370	RABI	BORO (HYV)				T, AMAN (IV)				RABI		
MEDIUM LAND (41.7%)	520	RABI	T, AUS (HYV)						RABI				
	4305	BORO (HYV)			T, AMAN (HYV)								
	1350	RABI	T, AMAN (HYV)						RABI				
LOW LAND (48.7%)	2190	BORO (L) AND (IV)											
	5023	BORO (HYV)											

PROJECTED CROPPING PATTERN
G D P P

- Data for Supporting Report D -

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1. Water Level of Narayananj (BWDB Sta. 180)

1.1 Monthly Maximum Water Level of Narayanganj (BWDB Sta. 180)

NO.	YEAR	MONTHLY MAXIMUM WATER LEVEL												AVER.
		STATION : NO.180 NARAYANGANJ (BWDB AND BIWTA)												
RIVER : LAKHYA		JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
		(Unit: PWD in m)												
1	1947	-	-	-	-	-	-	-	-	-	-	-	-	-
2	1948	1.79	1.98	2.09	2.74	2.80	3.87	4.69	5.09	4.75	-	3.51	2.41	-
3	1949	1.49	-	2.04	2.62	2.99	4.33	5.03	5.33	5.27	4.79	3.20	2.38	-
4	1950	1.49	1.68	1.80	2.16	2.77	4.18	4.60	5.21	5.27	-	2.83	2.01	-
5	1951	1.58	1.68	1.80	2.44	2.56	4.15	5.27	4.88	4.88	4.63	2.77	-	-
6	1952	-	-	-	1.98	2.50	3.32	5.21	4.85	5.33	4.82	3.60	2.29	-
7	1953	1.49	1.58	2.16	2.38	2.71	3.60	5.00	5.24	5.27	4.82	2.96	1.68	3.24
8	1954	1.46	1.52	1.58	1.89	2.83	4.54	5.39	6.00	6.04	4.63	3.29	1.98	3.43
9	1955	1.65	1.71	2.10	2.19	2.80	4.15	5.12	6.16	5.55	4.72	3.23	2.26	3.47
10	1956	1.89	1.68	1.68	2.13	3.66	5.15	5.24	5.00	5.18	4.24	3.17	2.10	3.43
11	1957	1.74	1.71	1.58	2.19	3.02	3.78	4.42	5.00	5.58	3.44	2.32	1.86	3.05
12	1958	1.58	1.52	1.52	1.83	2.90	3.44	3.90	5.43	5.46	4.45	3.32	2.19	3.13
13	1959	-	-	-	-	-	-	-	-	-	-	-	-	-
14	1960	-	-	-	-	-	-	-	-	-	-	-	-	-
15	1961	-	-	-	-	-	-	-	-	-	-	-	-	-
16	1962	-	-	-	2.23	3.20	4.10	5.03	5.90	5.94	5.04	3.15	2.16	-
17	1963	-	-	-	-	-	-	-	-	-	-	-	-	-
18	1964	-	-	-	-	-	-	-	-	-	-	-	-	-
19	1965	-	-	-	-	-	-	-	-	-	-	-	-	-
20	1966	-	-	-	-	-	-	-	-	-	-	-	-	-
21	1967	-	-	-	-	-	-	-	-	-	-	-	-	-
22	1968	-	-	-	-	-	-	-	-	-	-	-	-	-
23	1969	1.77	1.83	2.03	2.27	2.87	4.22	5.35	5.58	5.56	4.68	2.85	2.27	3.44
24	1970	1.94	1.81	2.09	-	-	-	-	-	-	-	-	-	-
25	1971	-	-	-	2.23	2.99	4.37	5.18	5.76	5.76	4.97	3.95	-	-
26	1972	2.13	-	2.10	2.45	3.09	4.45	4.75	5.12	4.75	3.90	2.50	2.07	-
27	1973	1.74	1.83	1.71	2.38	3.20	5.00	5.12	5.52	5.17	4.91	3.63	2.87	3.59
28	1974	2.26	1.74	1.95	2.27	3.29	4.39	5.75	6.23	5.55	5.11	3.29	2.53	-
29	1975	2.12	1.84	1.78	2.08	2.88	3.70	4.99	5.36	4.84	4.41	3.74	2.54	3.36
30	1976	1.90	1.81	2.10	2.51	2.84	4.05	5.17	5.15	5.12	4.19	2.56	2.41	3.32
31	1977	1.89	1.80	1.83	-	3.47	4.53	5.18	5.47	5.52	4.36	3.14	2.68	-
32	1978	1.98	1.84	1.86	2.21	3.63	4.58	4.83	5.22	4.82	4.57	2.96	2.47	3.41
33	1979	1.92	1.74	2.00	2.10	2.93	3.35	4.56	5.00	4.74	4.45	3.22	2.33	3.20
34	1980	1.93	1.96	2.17	2.74	3.33	4.38	5.39	6.03	5.79	4.81	3.47	2.40	3.70
35	1981	2.03	1.51	1.91	-	-	-	-	-	-	4.44	2.55	2.75	-
36	1982	1.96	1.79	1.90	2.83	2.97	4.28	4.75	5.20	4.98	4.47	2.83	2.21	3.35
37	1983	1.96	1.94	2.40	2.87	3.13	4.01	4.67	5.20	5.54	5.22	3.59	2.36	3.57
38	1984	2.16	1.92	2.24	2.82	3.79	4.66	5.56	5.77	5.63	5.22	2.92	2.11	3.73
39	1985	1.82	1.95	2.38	2.62	3.19	4.24	5.17	5.33	4.92	4.63	3.51	2.45	3.52
40	1986	1.98	1.74	2.16	2.90	2.96	3.75	4.71	5.03	4.88	4.62	3.73	2.92	3.45
41	1987	2.42	2.36	2.53	3.15	2.64	3.87	5.33	6.09	5.68	5.34	3.32	2.48	3.77
42	1988	2.02	2.08	2.34	2.90	4.17	4.47	5.68	6.42	6.63	4.66	3.41	2.74	3.96
43	1989	2.00	2.24	2.06	2.36	3.34	4.30	5.23	5.06	4.76	4.70	3.37	2.20	3.47
44	1990	1.92	2.00	2.26	2.94	3.25	4.50	5.18	5.18	4.68	5.23	3.60	2.44	3.59
45	1991	2.23	1.88	2.05	2.42	3.44	4.60	5.33	5.18	-	-	-	-	-
	AVER(1)	1.88	1.82	2.01	2.43	3.10	4.21	5.07	5.44	5.29	4.67	3.19	2.32	3.44

Notes: 1) AVER(1) is average of all the data.

1.2 Monthly Average of Daily High Water Level
of Narayanganj (BWDB Sta. 180)

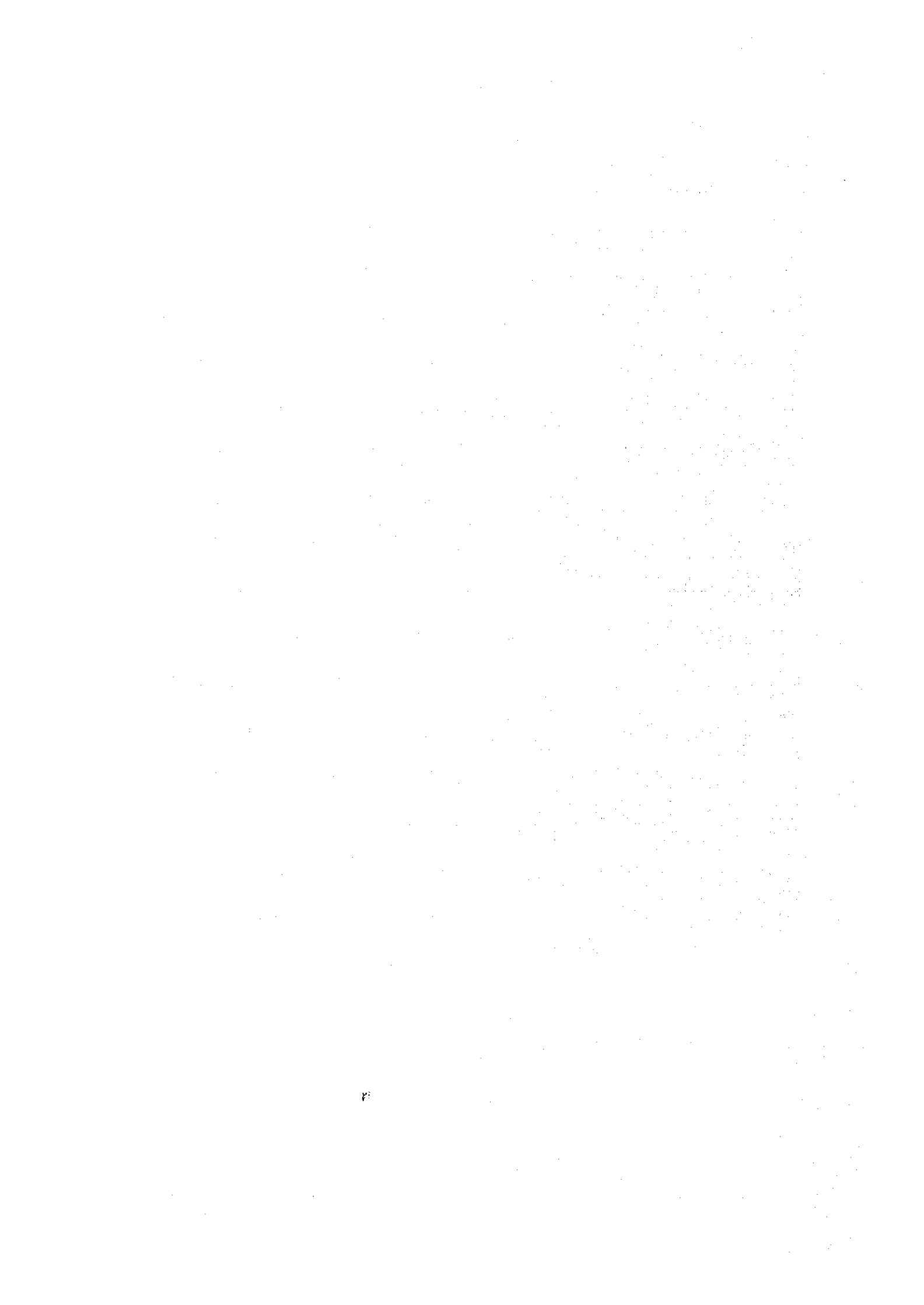
MONTHLY AVERAGE ^{HIGH} WATER LEVEL														
NARAYANG.XLS														
STATION : NO.180 NARAYANGANJ (BWDB AND BIWTA)														
RIVER : LAKHYA														
(Unit : PWD in m)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
1	1947	-	-	-	1.98	2.27	3.41	4.26	4.84	4.54	-	2.60	1.66	-
2	1948	1.41	1.47	1.52	-	2.63	3.90	4.68	5.21	4.75	4.06	2.50	1.70	-
3	1949	1.25	-	1.45	1.91	2.64	3.50	4.84	5.04	5.06	4.01	2.53	1.52	-
4	1950	1.23	1.28	1.34	1.78	2.20	3.28	4.50	4.67	4.78	-	2.47	1.69	-
5	1951	1.27	1.23	1.34	1.62	2.17	3.27	4.70	4.64	4.58	3.74	2.03	-	-
6	1952	-	-	-	1.60	1.99	3.05	4.48	4.62	4.99	4.31	2.91	1.84	-
7	1953	1.17	1.21	1.61	1.77	2.17	3.20	4.36	4.98	4.73	4.05	2.26	1.38	2.74
8	1954	1.01	1.19	1.26	1.65	2.32	3.62	4.95	5.78	5.42	4.21	2.51	1.63	2.96
9	1955	1.28	1.18	1.38	1.83	2.23	3.23	4.55	5.83	5.07	3.79	2.62	1.72	2.89
10	1956	1.38	1.20	1.33	1.60	2.86	4.09	4.88	4.79	4.89	3.58	2.48	1.70	2.90
11	1957	1.38	1.33	1.30	1.67	2.45	2.92	4.07	4.75	4.06	3.01	1.95	1.42	2.53
12	1958	1.28	1.19	1.24	1.57	2.45	2.86	3.74	4.71	4.99	3.99	2.61	1.70	2.69
13	1959	-	-	-	-	-	-	-	-	-	-	-	-	-
14	1960	-	-	-	-	-	-	-	-	-	-	-	-	-
15	1961	-	-	-	-	-	-	-	-	-	-	-	-	-
16	1962	-	-	-	1.88	2.32	3.53	4.76	5.14	5.61	3.92	2.43	1.86	-
17	1963	-	-	-	-	-	-	-	-	-	-	-	-	-
18	1964	-	-	-	-	-	-	-	-	-	-	-	-	-
19	1965	-	-	-	-	-	-	-	-	-	-	-	-	-
20	1966	-	-	-	-	-	-	-	-	-	-	-	-	-
21	1967	-	-	-	-	-	-	-	-	-	-	-	-	-
22	1968	-	-	-	1.93	2.38	3.62	5.16	5.44	4.64	4.20	2.51	1.78	-
23	1969	1.56	1.48	1.57	1.87	2.19	3.51	4.73	5.20	5.20	2.73	2.41	1.85	2.86
24	1970	1.54	1.48	1.60	-	-	-	-	-	-	-	-	-	-
25	1971	-	-	-	1.87	2.45	3.54	4.77	5.43	5.34	4.46	2.98	-	-
26	1972	1.85	-	1.66	2.03	2.67	3.41	4.38	4.79	4.33	3.28	2.16	1.75	-
27	1973	1.48	1.41	1.48	2.07	2.89	3.82	4.67	5.22	4.80	4.32	2.99	2.17	3.11
28	1974	1.83	1.43	1.58	1.89	2.79	3.51	5.17	5.91	5.35	4.25	2.84	1.94	3.21
29	1975	1.63	1.39	1.48	1.71	2.27	3.09	4.24	5.00	4.73	4.02	2.87	2.04	2.87
30	1976	1.51	1.25	1.64	1.90	2.43	3.56	4.84	4.77	4.66	3.37	2.34	2.03	2.86
31	1977	1.53	1.44	1.51	-	3.05	4.09	4.69	5.20	4.92	3.84	2.75	2.17	-
32	1978	1.64	1.46	1.51	1.84	2.69	3.93	4.62	4.98	4.56	3.65	2.49	1.91	2.94
33	1979	1.59	1.34	1.42	1.78	2.40	2.84	3.90	4.43	4.49	4.03	2.45	1.94	2.72
34	1980	1.56	1.55	1.67	1.93	3.01	3.84	4.70	5.58	5.28	4.12	2.82	2.12	3.18
35	1981	1.55	1.26	1.52	-	-	-	-	-	-	3.22	2.36	2.01	-
36	1982	1.58	1.51	1.52	2.22	2.62	3.44	4.57	4.94	4.81	3.37	2.27	1.79	2.89
37	1983	1.55	1.42	1.87	2.18	2.84	3.39	4.42	4.91	5.27	4.47	2.94	1.97	3.10
38	1984	1.72	1.51	1.76	2.25	2.96	4.20	4.95	5.11	5.18	4.11	2.47	1.88	3.18
39	1985	1.56	1.57	1.95	2.26	2.65	3.84	4.68	4.87	4.69	4.15	2.75	2.05	3.08
40	1986	1.61	1.49	1.66	2.22	2.57	2.92	4.31	4.65	4.64	4.27	3.08	2.21	2.97
41	1987	2.04	2.06	2.11	2.71	2.43	3.27	4.73	5.84	5.53	4.35	2.81	2.17	3.34
42	1988	1.73	1.72	1.85	2.28	3.09	4.20	5.20	5.44	5.93	4.10	-	-	-
43	1989	1.58	-	1.62	-	-	-	-	4.74	4.65	4.21	2.67	-	-
44	1990	1.60	1.60	1.71	2.26	2.74	3.94	4.61	4.95	4.39	-	2.72	-	-
45	1991	1.63	1.53	-	-	-	4.10	4.88	4.91	-	-	-	-	-
AVER(1)		1.52	1.42	1.56	1.94	2.54	3.53	4.62	5.07	4.91	3.91	2.58	1.85	2.95

1.3 Monthly Average of Daily Low Water Level
of Narayanganj (BWDB Sta. 180)

MONTHLY AVERAGE LOW WATER LEVEL														
NARAYANG.XLS														
STATION : NO.180 NARAYANGANJ (BWDB AND BIWTA)														
RIVER : LAKHYA														
(Unit : PWD in m)														
NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
1	1947	-	-	-	-	1.75	3.08	4.11	4.76	4.45	-	2.24	1.17	-
2	1948	0.93	0.86	0.94	-	2.23	3.61	4.36	4.98	4.58	3.91	2.29	1.31	-
3	1949	0.92	-	0.96	1.19	1.72	3.25	4.62	4.83	4.87	3.84	2.39	1.19	-
4	1950	0.87	0.81	0.88	1.04	1.29	2.82	4.16	4.40	4.58	-	2.11	1.39	-
5	1951	0.85	0.77	0.81	0.97	1.42	2.50	4.33	4.36	4.32	3.51	1.66	-	-
6	1952	-	-	-	0.83	1.18	2.41	3.99	4.28	4.66	4.08	2.42	1.24	-
7	1953	0.73	0.66	0.76	0.97	1.40	2.57	3.90	4.70	4.48	3.87	1.89	0.96	2.24
8	1954	0.59	0.62	0.65	0.82	1.50	3.04	4.73	5.67	5.27	4.03	2.16	1.15	2.52
9	1955	0.79	0.68	0.76	1.08	1.55	2.94	4.32	5.72	4.89	3.62	2.27	1.31	2.49
10	1956	0.89	0.67	0.75	0.95	2.40	3.85	4.75	4.66	4.76	3.38	2.20	1.17	2.54
11	1957	0.85	0.76	0.72	0.99	1.81	2.49	3.87	4.60	3.83	2.74	1.50	0.99	2.10
12	1958	0.81	0.62	0.63	0.95	1.90	2.55	3.51	4.60	4.87	3.78	2.33	1.30	2.32
13	1959	-	-	-	-	-	-	-	-	-	-	-	-	-
14	1960	-	-	-	-	-	-	-	-	-	-	-	-	-
15	1961	-	-	-	-	-	-	-	-	-	-	-	-	-
16	1962	-	-	-	1.47	1.99	3.40	4.70	5.09	5.58	3.81	2.14	1.46	-
17	1963	-	-	-	-	-	-	-	-	-	-	-	-	-
18	1964	-	-	-	-	-	-	-	-	-	-	-	-	-
19	1965	-	-	-	-	-	-	-	-	-	-	-	-	-
20	1966	-	-	-	-	-	-	-	-	-	-	-	-	-
21	1967	-	-	-	-	-	-	-	-	-	-	-	-	-
22	1968	-	-	-	1.48	2.02	3.44	5.11	5.39	4.57	4.10	2.19	1.31	-
23	1969	1.09	0.99	1.07	1.38	1.80	3.31	4.66	5.15	5.15	3.56	2.07	1.43	2.64
24	1970	1.10	1.00	1.13	-	-	-	-	-	-	-	-	-	-
25	1971	-	-	-	1.36	1.90	3.21	4.70	5.39	5.30	4.37	2.72	-	-
26	1972	1.42	-	1.15	1.59	2.35	3.22	4.27	4.71	4.23	3.04	0.77	1.30	-
27	1973	0.99	0.92	0.97	1.66	2.67	3.68	4.58	5.16	4.70	4.19	2.73	1.87	2.84
28	1974	1.52	1.13	1.20	1.63	2.65	3.33	5.05	5.84	5.28	4.15	2.64	1.70	3.01
29	1975	1.24	1.15	1.22	1.48	2.14	2.93	4.14	4.88	4.63	3.90	2.61	1.73	2.67
30	1976	1.23	0.98	1.23	1.43	2.07	3.36	4.76	4.70	4.61	3.17	1.94	1.60	2.59
31	1977	1.10	1.00	1.09	-	2.76	3.92	4.59	5.13	4.84	3.70	2.47	1.79	-
32	1978	1.27	0.97	1.00	1.32	2.25	3.77	4.51	4.87	4.43	3.49	2.14	1.53	2.63
33	1979	1.15	0.95	1.02	1.36	1.91	2.27	3.52	4.32	4.39	3.86	2.11	1.53	2.37
34	1980	1.11	1.06	1.18	1.43	2.66	3.63	4.56	5.52	5.20	4.00	2.49	1.65	2.87
35	1981	1.11	0.82	1.10	-	-	-	-	-	-	2.86	2.08	1.67	-
36	1982	1.00	0.90	0.89	1.59	2.09	3.04	4.40	4.79	4.69	3.10	1.81	1.23	2.46
37	1983	0.93	0.79	1.18	1.53	2.34	3.08	4.25	4.77	5.16	4.31	2.53	1.41	2.69
38	1984	1.09	0.86	1.04	1.51	2.55	3.95	4.80	4.96	5.07	3.84	2.00	1.29	2.75
39	1985	0.94	0.86	1.22	1.59	2.00	3.49	4.50	4.71	4.56	3.92	2.29	1.47	2.63
40	1986	0.99	0.82	0.92	1.46	1.95	2.35	4.08	4.47	4.49	4.09	2.67	1.69	2.90
41	1987	1.45	1.38	1.41	2.04	1.88	2.88	4.55	5.74	5.43	4.15	2.40	1.62	2.91
42	1988	1.14	1.07	1.18	1.62	2.56	3.91	5.06	5.35	5.83	3.85	2.27	-	-
43	1989	1.04	-	-	-	-	3.51	-	-	-	-	-	-	-
44	1990	-	-	-	-	2.39	-	4.47	4.86	4.23	-	-	-	-
45	1991	-	-	-	1.58	-	3.88	4.73	4.75	-	-	-	-	-
AVER(1)		1.04	0.89	1.00	1.34	2.03	3.20	4.43	4.94	4.79	3.75	2.20	1.42	2.59

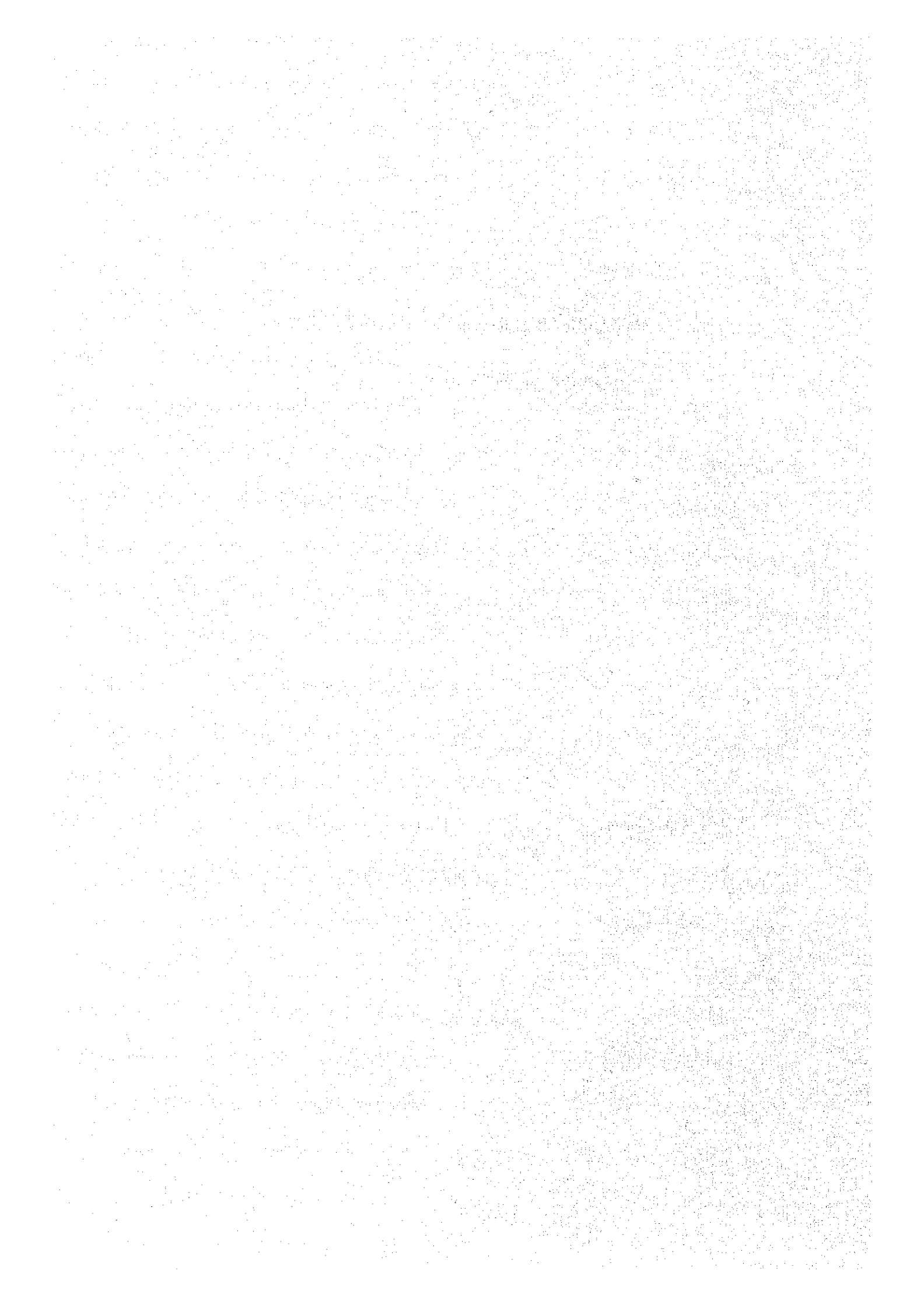
1.4 Monthly Average Water Level of
Narayanganj (BWDB Sta. 180)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	MONTHLY AVERAGE WATER														
2															
3	STATION : NO.180 NARAYANGANJ (BWDB AND BIWA)														
4	RIVER : LAKHYA														
5	(Unit : PWD in m)														
6	NO.	YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVER.
7	1	1947	-	-	-	-	2.01	3.25	4.19	4.80	4.50	-	2.42	1.42	-
8	2	1948	1.17	1.17	1.23	-	2.43	3.76	4.52	5.10	4.67	3.99	2.40	1.51	-
9	3	1949	1.09	-	1.21	1.55	2.18	3.38	4.73	4.94	4.97	3.93	2.46	1.36	-
10	4	1950	1.05	1.05	1.11	1.41	1.75	3.05	4.33	4.54	4.68	-	2.29	1.54	-
11	5	1951	1.06	1.00	1.06	1.30	1.80	2.89	4.52	4.50	4.45	3.63	1.85	-	-
12	6	1952	-	-	-	1.22	1.59	2.73	4.24	4.45	4.83	4.20	2.67	1.54	-
13	7	1953	0.95	0.94	1.19	1.37	1.79	2.89	4.13	4.84	4.61	3.96	2.08	1.17	2.49
14	8	1954	0.80	0.91	0.96	1.24	1.91	3.33	4.84	5.73	5.35	4.12	2.34	1.39	2.74
15	9	1955	1.04	0.93	1.07	1.46	1.89	3.09	4.44	5.78	4.98	1.81	2.45	1.52	2.54
16	10	1956	1.14	0.94	1.04	1.28	2.63	3.97	4.82	4.73	4.83	3.48	2.34	1.44	2.72
17	11	1957	1.12	1.05	1.01	1.33	2.13	2.71	3.97	4.68	3.95	2.88	1.73	1.21	2.31
18	12	1958	1.05	0.91	0.94	1.26	2.18	2.71	3.63	4.66	4.93	3.89	2.47	1.50	2.51
19	13	1959	-	-	-	-	-	-	-	-	-	-	-	-	-
20	14	1960	-	-	-	-	-	-	-	-	-	-	-	-	-
21	15	1961	-	-	-	-	-	-	-	-	-	-	-	-	-
22	16	1962	-	-	-	1.68	2.16	3.47	4.73	5.12	5.60	3.87	2.29	1.66	-
23	17	1963	-	-	-	-	-	-	-	-	-	-	-	-	-
24	18	1964	-	-	-	-	-	-	-	-	-	-	-	-	-
25	19	1965	-	-	-	-	-	-	-	-	-	-	-	-	-
26	20	1966	-	-	-	-	-	-	-	-	-	-	-	-	-
27	21	1967	-	-	-	-	-	-	-	-	-	-	-	-	-
28	22	1968	-	-	-	1.71	2.20	3.53	5.14	5.42	4.61	4.15	2.35	1.55	-
29	23	1969	1.33	1.24	1.32	1.63	2.00	3.41	4.70	5.18	5.18	3.15	2.24	1.64	2.75
30	24	1970	1.32	1.24	1.37	1.62	2.18	3.38	4.74	5.41	5.32	4.42	2.85	-	-
31	25	1971	1.64	-	1.41	-	-	-	-	-	-	-	-	-	-
32	26	1972	-	-	-	1.81	2.51	3.32	4.33	4.75	4.28	3.16	1.47	1.53	-
33	27	1973	1.24	1.17	1.23	1.87	2.78	3.75	4.63	5.19	4.75	4.26	2.86	2.02	2.98
34	28	1974	1.68	1.28	1.39	1.76	2.72	3.42	5.11	5.88	5.32	4.20	2.74	1.82	3.11
35	29	1975	1.44	1.27	1.35	1.60	2.21	3.01	4.19	4.94	4.68	3.96	2.74	1.89	2.77
36	30	1976	1.37	1.12	1.44	1.67	2.25	3.46	4.80	4.74	4.64	3.27	2.14	1.82	2.73
37	31	1977	1.32	1.22	1.30	-	2.91	4.01	4.64	5.17	4.88	3.77	2.61	1.98	-
38	32	1978	1.46	1.22	1.26	1.58	2.47	3.85	4.56	4.92	4.49	3.57	2.31	1.72	2.78
39	33	1979	1.37	1.15	1.22	1.57	2.15	2.55	3.71	4.37	4.44	3.94	2.28	1.73	2.54
40	34	1980	1.34	1.30	1.43	1.68	2.84	3.74	4.63	5.55	5.24	4.06	2.66	1.89	3.03
41	35	1981	1.33	1.04	1.31	-	-	-	-	-	-	3.04	2.22	1.84	-
42	36	1982	1.29	1.21	1.21	1.91	2.36	3.24	4.49	4.87	4.75	3.24	2.04	1.51	2.68
43	37	1983	1.24	1.11	1.53	1.86	2.59	3.24	4.34	4.84	5.22	4.39	2.74	1.69	2.90
44	38	1984	1.41	1.19	1.50	1.88	2.76	4.08	4.88	5.04	5.13	3.98	2.24	1.59	2.97
45	39	1985	1.25	1.22	1.59	1.93	2.33	3.67	4.59	4.79	4.63	4.04	2.52	1.76	2.86
46	40	1986	1.30	1.16	1.29	1.84	2.26	2.64	4.20	4.56	4.57	4.18	2.88	1.95	2.74
47	41	1987	1.75	1.72	1.76	2.38	2.16	3.08	4.64	5.79	5.48	4.25	2.61	1.79	3.12
48	42	1988	1.44	1.40	1.52	1.95	2.83	4.06	5.13	5.40	5.88	3.98	-	-	-
49	43	1989	1.31	-	-	-	-	-	-	-	-	-	-	-	-
50	44	1990	-	-	-	-	2.57	-	4.54	4.91	4.31	-	-	-	-
51	45	1991	-	-	-	-	-	3.99	4.81	4.83	-	-	-	-	-
52															
53	AVER(1)		1.28	1.15	1.28	1.63	2.29	3.35	4.53	5.01	4.85	3.77	2.38	1.63	2.76



2. Hydraulic Simulation for Drainage Area

- Example of Simulation for DC-2



DC-2 : Case 1-1 Without Retarding Pond and Without Pump Station

J R E S U L T P R I N T / P L O T M I K E 1 1

Enter file name: RES1-1.RRF

- 1. SELECT result file
- 2. SELECT model.....: HD-model
- 3. DELETE result file
- 4. PRINT summary
- 5. TIME SERIES print / plot
- 6. PROFILE plot
- 7. DIRECTORY

Enter option (1-7) :

<Esc> Return to Main Menu <F1> Help Menu

DC-2 : Case 1-1

GRID POINT RESULT SUMMARY

WATER LEVEL,	Location	Minimum meter	Maximum meter
KD-5	0.000	2.94	5.48
KD-5	0.200	2.95	5.45
KD-5	0.700	2.95	5.38
KD-5	1.200	2.96	5.31
KD-5	1.700	2.96	5.24
KD-5	2.000	2.97	5.23
KD-5	2.000	2.97	5.23
KD-5	2.200	2.97	5.22
KD-5	2.700	2.97	5.17
KD-5	3.200	2.97	5.14
KD-5	3.700	2.97	5.09
KD-5	4.200	2.98	5.06
KD-5	4.320	2.98	5.05
KD-5	4.570	2.98	5.03
KD-5	4.820	2.98	5.02
KD-5	5.070	2.98	5.00
KD-5	5.200	2.98	4.99
KD-5	5.200	2.98	4.99
KD-5	5.240	2.98	4.99
KD-5	5.440	2.98	4.97
KD-5	5.710	2.98	4.94
KD-5	5.910	2.98	4.92
KD-5	6.260	2.99	4.89
KD-5	6.480	2.99	4.86
KD-5	6.700	2.99	4.84
KD-5	6.950	2.99	4.82
KD-5	7.150	2.99	4.80
KD-5	7.200	2.99	4.80
KD-5	7.200	2.99	4.80
KD-5	7.220	2.99	4.80
KD-5	7.440	2.99	4.77
KD-5	7.680	2.99	4.74
KD-5	7.930	2.99	4.72
KD-5	8.150	3.00	4.69
KD-5	8.510	3.00	4.65
KD-5	8.600	3.00	4.65
KD-5	8.600	3.00	4.65
KD-5	8.710	3.00	4.64
KD-5	9.150	3.00	4.59
KD-5	9.270	3.00	4.57
KD-5	9.300	3.00	4.57
KD-5	9.300	3.00	4.57
KD-5	9.540	3.00	4.47
KD-5	9.790	3.00	4.40
KD-5	10.070	3.00	4.33
KD-5	10.320	3.00	4.26
KD-5	10.620	3.00	4.17
KD-5	10.900	3.00	4.09
KD-5	11.150	3.00	4.02
KD-5	11.400	3.00	3.94
KD-5	11.600	3.00	3.88
KD-5	11.850	3.00	3.09
KD-5	12.000	3.00	3.00
KD-6	0.000	3.00	4.92
KD-6	0.380	3.00	4.84

DC-2: Case 1-1

DISCHARGE,

Location	Minimum m3/sec	Maximum m3/sec
KD-5	0.100	0.100
KD-5	0.450	0.450
KD-5	-0.366	37.653
KD-5	-0.521	37.478
KD-5	-0.563	42.418
KD-5	-0.585	43.130
KD-5	-0.617	43.585
KD-5	-0.665	80.551
KD-5	-0.730	79.301
KD-5	-0.730	77.183
KD-5	-0.834	98.087
KD-5	-0.926	95.184
KD-5	-0.970	92.219
KD-5	-0.991	92.031
KD-5	-1.015	90.397
KD-5	-1.053	88.318

Location	Minimum meter	Maximum meter
KD-6	0.730	4.77
KD-6	1.080	4.70
KD-6	1.480	4.63
KD-6	1.700	4.60
KD-6	1.800	4.57
KD-7	0.000	4.59
KD-7	0.050	4.69
KD-7	0.260	4.69
KD-7	0.540	4.69
KD-7	0.690	4.68
KD-7	0.940	4.68
KD-7	1.220	4.68
KD-7	1.420	4.67
KD-7	1.720	4.67
KD-7	1.950	4.67
KD-7	2.220	4.67
KD-7	2.720	4.66
KD-7	3.035	4.65
KD-7	3.350	4.65
KD-7	3.720	4.65
KD-7	3.800	4.65
KD-8	0.000	4.82
KD-8	0.140	4.81
KD-8	0.590	4.81
KD-8	0.855	4.80
KD-8	1.120	4.80
KD-8	1.460	4.80
KD-8	1.800	4.80
KD-9	0.000	5.05
KD-9	0.040	5.04
KD-9	0.540	5.02
KD-9	0.840	5.00
KD-9	1.000	4.99
KD-10	0.000	5.59
KD-10	0.100	5.58
KD-10	0.600	5.51
KD-10	1.100	5.45
KD-10	1.600	5.41
KD-10	2.100	5.37
KD-10	2.600	5.30
KD-10	3.100	5.27
KD-10	3.600	5.25
KD-10	4.050	5.23
KD-10	4.100	5.23

DC-2: Case 1-1

Location	Minimum m3/sec	Maximum m3/sec
KD-5	5.135	87.328
KD-5	5.220	115.351
KD-5	5.340	115.003
KD-5	5.575	114.561
KD-5	5.810	114.203
KD-5	6.085	113.747
KD-5	6.370	113.602
KD-5	6.590	114.032
KD-5	6.825	114.477
KD-5	7.050	114.901
KD-5	7.175	115.212
KD-5	7.210	128.225
KD-5	7.330	130.912
KD-5	7.560	131.377
KD-5	7.805	131.882
KD-5	8.040	132.385
KD-5	8.330	133.321
KD-5	8.585	134.172
KD-5	8.855	159.115
KD-5	8.930	160.390
KD-5	9.210	161.852
KD-5	9.285	162.266
KD-5	9.420	243.411
KD-5	9.685	242.414
KD-5	9.930	241.934
KD-5	10.185	241.467
KD-5	10.470	240.923
KD-5	10.760	240.263
KD-5	11.025	239.612
KD-5	11.275	239.361
KD-5	11.500	239.266
KD-5	11.800	239.058
KD-5	11.925	239.059
KD-6	0.190	56.965
KD-6	0.555	56.647
KD-6	0.905	56.464
KD-6	1.280	56.245
KD-6	1.590	55.909
KD-6	1.750	55.661
KD-7	0.025	38.699
KD-7	0.155	38.141

Location

KD-7 0.400
 KD-7 -0.083
 KD-7 0.615
 KD-7 0.815
 KD-7 1.080
 KD-7 1.130
 KD-7 1.570
 KD-7 1.835
 KD-7 2.085
 KD-7 2.470
 KD-7 2.878
 KD-7 3.193
 KD-7 3.535
 KD-7 3.760
 KD-8 0.070
 KD-8 0.365
 KD-8 0.723
 KD-8 0.988
 KD-8 1.290
 KD-8 1.630
 KD-9 0.020
 KD-9 0.290
 KD-9 0.690
 KD-9 0.920
 KD-10 0.050
 KD-10 0.350
 KD-10 0.850
 KD-10 1.350
 KD-10 1.850
 KD-10 2.350
 KD-10 2.850
 KD-10 3.350
 KD-10 3.825
 KD-10 4.075

Minimum
m3/sec

-0.084
 -0.097
 -0.132
 -0.128
 -0.225
 -0.282
 -0.270
 -0.203
 -0.257
 -0.284
 -0.303
 -0.312
 -0.068
 -0.050
 -0.067
 -0.077
 -0.089
 -0.110
 -0.018
 -0.048
 -0.095
 -0.134
 -0.001
 -0.057
 -0.150
 -0.205
 -0.252
 -0.319
 -0.394
 -0.463
 -0.478
 -0.465

Maximum
m3/sec

37.268
 36.462
 35.662
 34.511
 33.452
 32.354
 31.180
 30.131
 28.857
 27.615
 26.863
 25.528
 23.879
 22.623
 21.602
 20.372
 24.447
 24.421
 24.491
 24.482
 37.682
 35.922
 34.278
 32.834
 31.198
 53.829
 51.384
 48.580
 46.467
 45.364

GRID POINT RESULT SUMMARY

VELOCITY,

Location

Location	Minimum m/sec	Maximum m/sec
KD-5	0.000	0.675
KD-5	-0.001	0.682
KD-5	-0.002	0.687
KD-5	-0.003	0.668
KD-5	-0.006	0.690
KD-5	-0.011	0.723
KD-5	-0.018	0.712
KD-5	-0.024	0.702
KD-5	-0.025	0.692
KD-5	-0.020	0.572
KD-5	-0.009	0.502
KD-5	-0.017	0.923
KD-5	-0.015	0.847
KD-5	-0.014	0.773
KD-5	-0.014	0.747
KD-5	-0.014	0.721
KD-5	-0.013	0.652
KD-5	-0.012	0.693
KD-5	-0.013	0.781
KD-5	-0.013	0.765
KD-5	-0.014	0.749
KD-5	-0.014	0.732
KD-5	-0.014	0.728
KD-5	-0.015	0.724
KD-5	-0.015	0.714
KD-5	-0.015	0.704
KD-5	-0.015	0.694
KD-5	-0.015	0.685
KD-5	-0.015	0.675
KD-5	-0.015	0.664
KD-5	-0.015	0.642
KD-5	-0.014	0.665
KD-5	-0.014	0.801
KD-5	-0.014	0.805
KD-5	-0.014	0.798
KD-5	-0.014	0.791
KD-5	-0.014	0.785
KD-5	-0.014	0.777
KD-5	-0.014	0.769
KD-5	-0.014	0.766
KD-5	-0.014	0.763
KD-5	-0.014	0.758
KD-5	-0.014	0.758
KD-5	-0.014	0.759
KD-5	-0.014	0.760
KD-5	-0.014	0.762
KD-5	-0.014	0.765
KD-5	-0.014	0.767
KD-5	-0.014	0.768
KD-5	-0.014	0.769
KD-5	-0.014	0.769
KD-5	-0.014	0.757
KD-5	-0.014	0.744
KD-5	-0.014	0.818
KD-5	-0.014	0.812

DC-2: Case 1-1

Location	Minimum m/sec	Maximum m/sec
KD-5	7.220	0.808
KD-5	7.330	0.822
KD-5	7.440	0.823
KD-5	7.560	0.826
KD-5	7.680	0.828
KD-5	7.805	0.829
KD-5	7.930	0.830
KD-5	8.040	0.831
KD-5	8.150	0.833
KD-5	8.330	0.835
KD-5	8.510	0.837
KD-5	8.555	0.813
KD-5	8.600	0.794
KD-5	8.600	0.940
KD-5	8.655	0.914
KD-5	8.710	0.884
KD-5	8.930	0.888
KD-5	9.150	0.891
KD-5	9.210	0.890
KD-5	9.270	0.890
KD-5	9.285	0.891
KD-5	9.300	0.901
KD-5	9.300	1.108
KD-5	9.420	1.287
KD-5	9.540	1.297
KD-5	9.565	1.297
KD-5	9.790	1.299
KD-5	9.830	1.300
KD-5	10.070	1.303
KD-5	10.195	1.306
KD-5	10.320	1.310
KD-5	10.470	1.313
KD-5	10.620	1.315
KD-5	10.760	1.319
KD-5	10.900	1.321
KD-5	11.025	1.326
KD-5	11.150	1.330
KD-5	11.275	1.333
KD-5	11.400	1.337
KD-5	11.500	4.424
KD-5	11.600	1.647
KD-5	11.800	1.662
KD-5	11.850	1.677
KD-5	12.000	0.975
KD-5	0.000	0.984
KD-6	0.190	0.993
KD-6	0.380	0.979
KD-6	0.555	0.964
KD-6	0.730	0.950
KD-6	0.905	0.936
KD-6	1.080	0.920
KD-6	1.280	0.904
KD-6	1.480	0.893
KD-6	1.590	0.893

MIKE 11 SYSTEM

DC-2: Case 1-1

Location	Minimum m/sec	Maximum m/sec
KD-6	1.700	0.883
KD-6	1.750	0.883
KD-6	1.800	1.001
KD-7	0.000	0.725
KD-7	0.000	0.724
KD-7	0.000	0.723
KD-7	0.000	0.708
KD-7	0.001	0.693
KD-7	0.001	0.673
KD-7	0.001	0.653
KD-7	0.002	0.642
KD-7	0.002	0.632
KD-7	0.002	0.615
KD-7	0.002	0.599
KD-7	0.002	0.580
KD-7	0.003	0.562
KD-7	0.003	0.549
KD-7	0.003	0.536
KD-7	0.003	0.516
KD-7	0.004	0.498
KD-7	0.004	0.485
KD-7	0.004	0.474
KD-7	0.004	0.444
KD-7	0.004	0.448
KD-7	0.004	0.500
KD-7	0.004	0.478
KD-7	0.005	0.463
KD-7	0.005	0.449
KD-7	0.005	0.436
KD-7	0.005	0.422
KD-7	0.006	0.407
KD-7	0.006	0.391
KD-7	0.006	0.388
KD-7	0.006	0.402
KD-7	0.006	0.602
KD-8	0.000	0.589
KD-8	0.000	0.576
KD-8	0.001	0.538
KD-8	0.001	0.503
KD-8	0.002	0.483
KD-8	0.002	0.463
KD-8	0.003	0.444
KD-8	0.003	0.426
KD-8	0.003	0.406
KD-8	0.003	0.385
KD-8	0.004	0.366
KD-8	0.004	0.346
KD-8	0.000	0.495
KD-9	0.000	0.496
KD-9	0.000	0.496
KD-9	0.000	0.481
KD-9	0.001	0.467
KD-9	0.002	0.458
KD-9	0.003	0.450
KD-9	0.003	0.446
KD-9	0.920	0.446

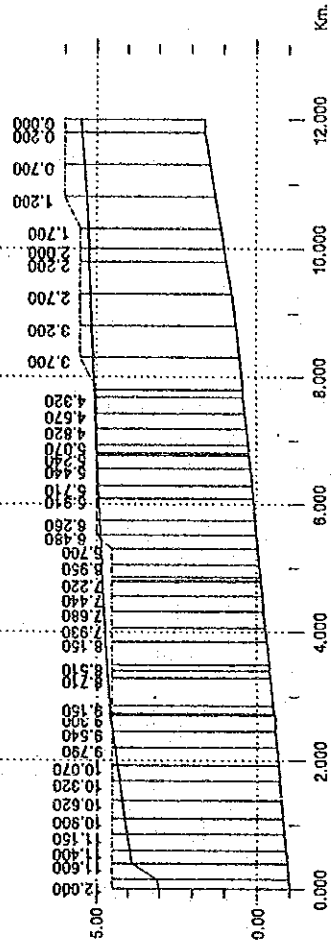
MIKE 11 SYSTEM

DC-2: Case 1-1

DC-2: Case 1-1

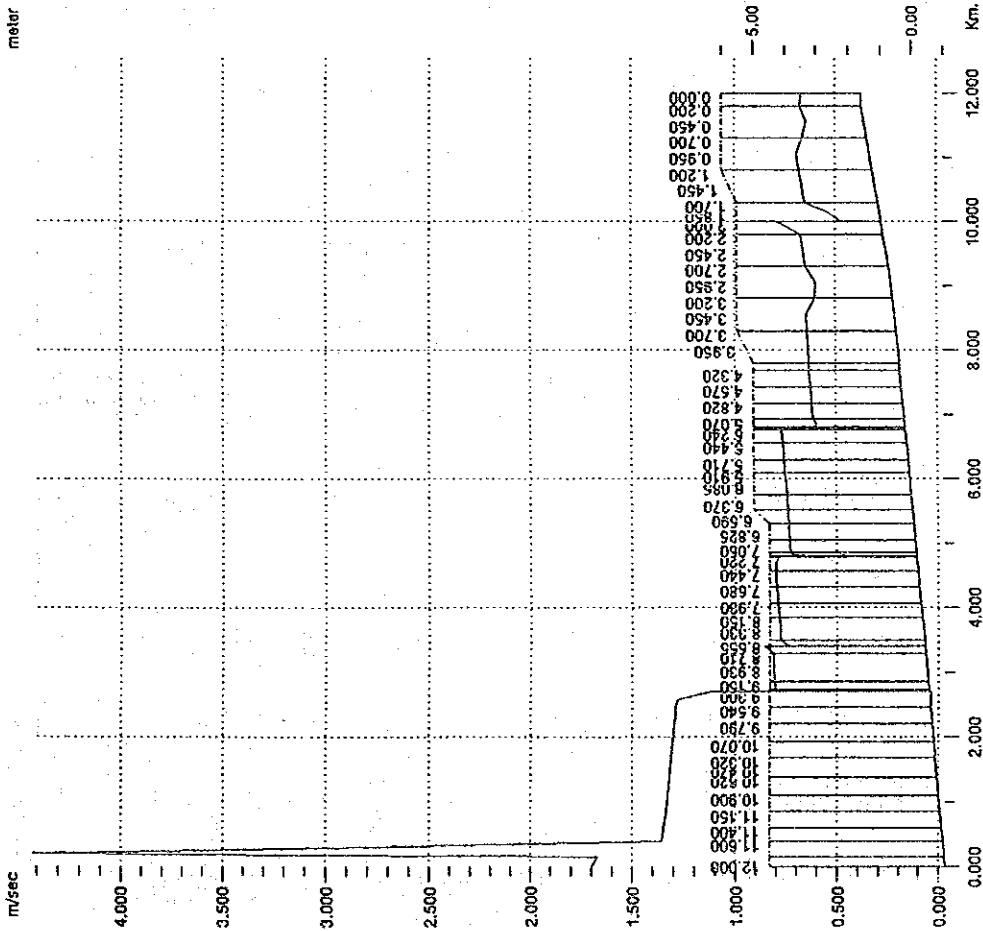
Location	Minimum m/sec	Maximum m/sec
KD-9	1.000	0.476
KD-10	0.000	0.866
KD-10	0.050	0.863
KD-10	0.100	0.860
KD-10	-0.007	0.808
KD-10	-0.010	0.767
KD-10	0.850	0.729
KD-10	-0.016	0.691
KD-10	-0.018	0.648
KD-10	-0.019	0.619
KD-10	-0.017	0.589
KD-10	-0.018	0.553
KD-10	-0.018	0.519
KD-10	-0.018	0.488
KD-10	-0.018	0.461
KD-10	-0.018	0.425
KD-10	-0.017	0.388
KD-10	-0.017	0.351
KD-10	-0.017	0.313
KD-10	-0.016	0.275
KD-10	-0.016	0.238
KD-10	-0.016	0.200
KD-10	-0.016	0.164
KD-10	-0.016	0.127
KD-10	-0.016	0.090
KD-10	-0.016	0.053
KD-10	-0.016	0.016

meter



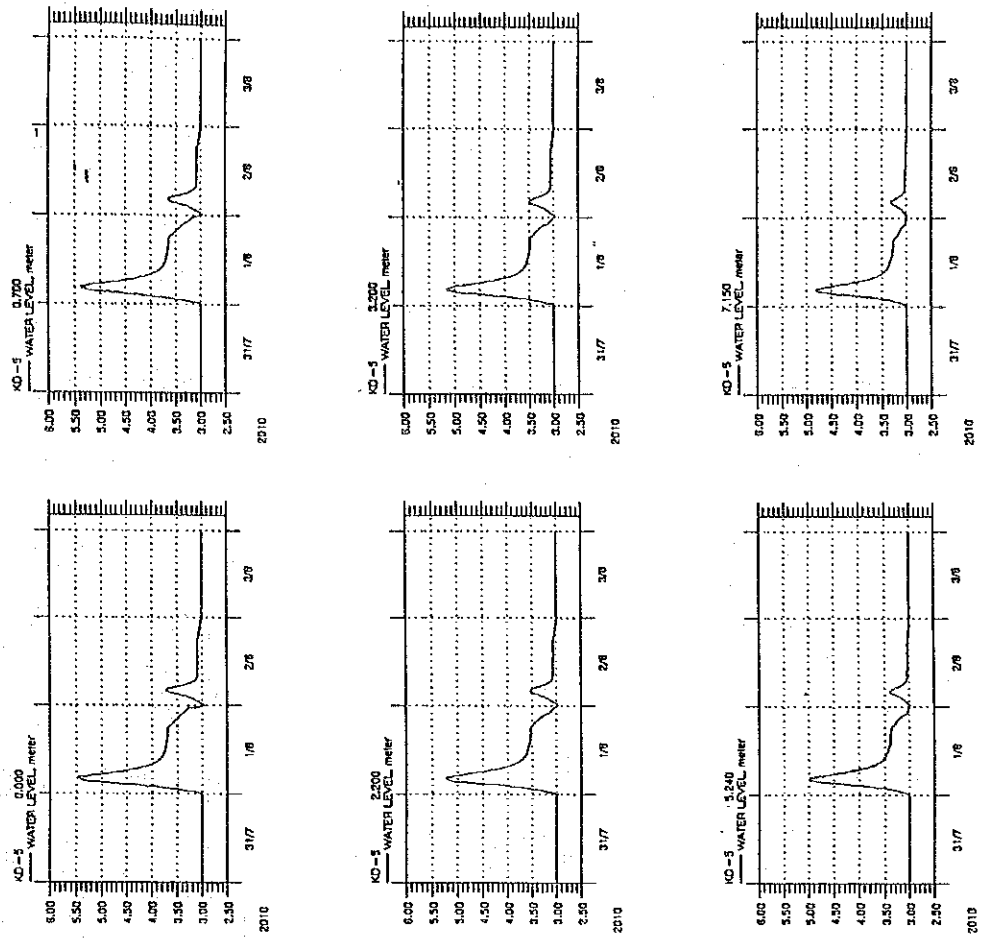
H: 1175070 V: 11150	KD-5 (Max. WL.)	MIKE 11 0-3 m/s.
PARAMETER : WATER LEVEL, DATA FILE : RN1-1.RDF RESULT FILE : RES1-1.RRF		1-AUG-2010, 04:20 (28.23 Arc) BOUNDARY FILE : BN-1.BSF CALCULATED : 2-FEB-1992, 15:11

DC-2: Case 1-1



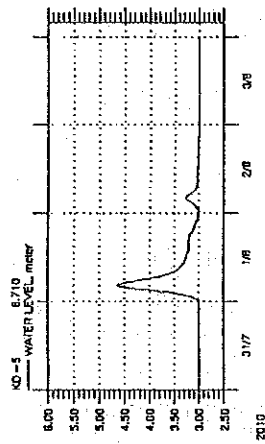
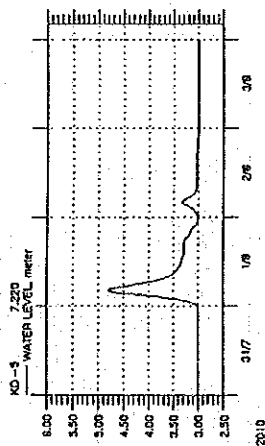
H: 1175000		MIKE 11	
K2.E		Ong no.:	
PARAMETER : VELOCITY		1-AUG-2010, 04:15 (25.25 sec)	
DATA FILE : RNI-1.RDF		BOUNDARY FILE : BN-1.BSF	
RESULT FILE : RES1-1.VRF		CALCULATED : 2-FEB-1992, 15:11	

DC-2: Case 1-1

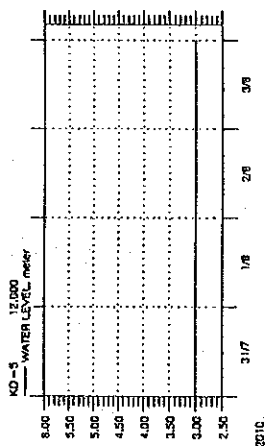
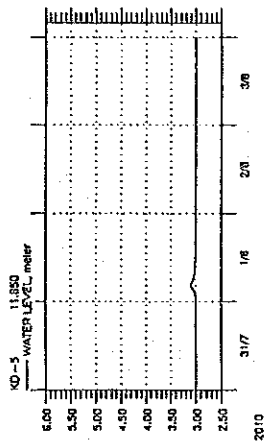
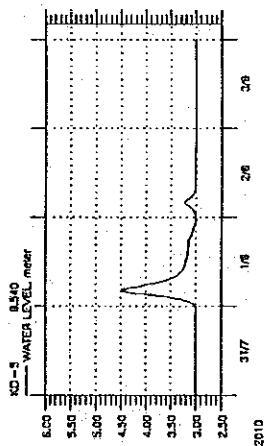
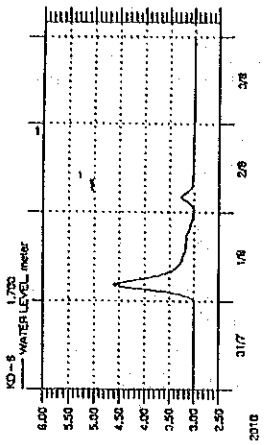
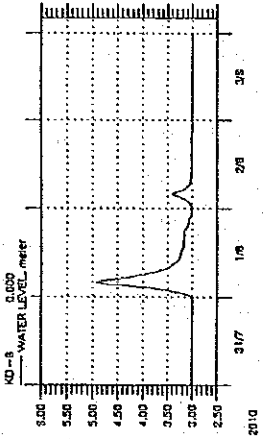


		MIKE 11	
		Ong no.:	
DATA FILE : RNI-1.RDF		BOUNDARY FILE : BN-1.BSF	
RESULT FILE : RES1-1.RRF		CALCULATED : 2-FEB-1992, 15:11	

DC-2: Case 1-1



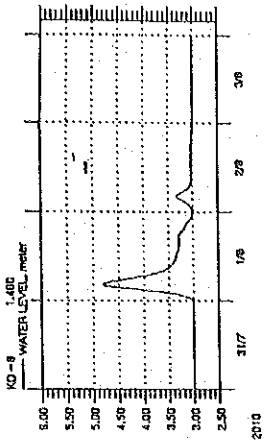
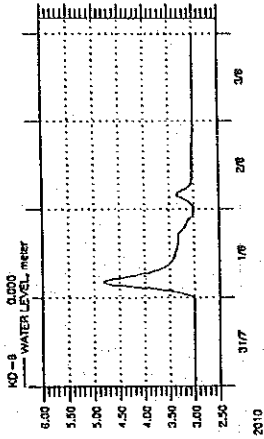
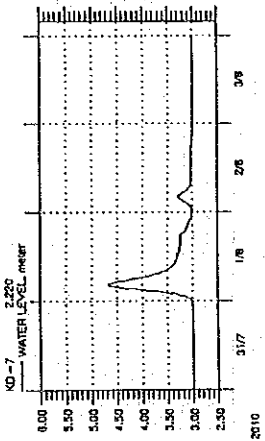
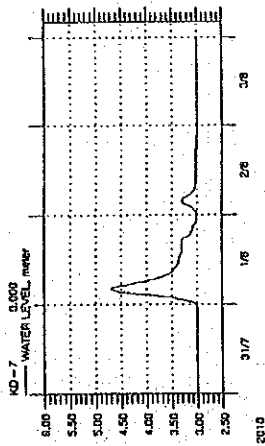
DC-2: Case 1-1



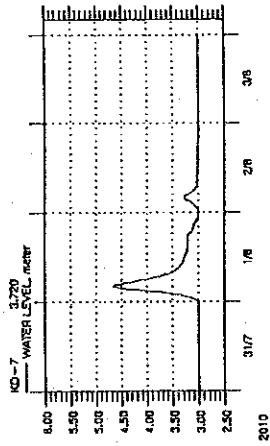
		MIKE 11
		Dwg no.:
DATA FILE : RM1 - 1.RDF	BOUNDARY FILE : BN - 1.BSF	
RESULT FILE : RES1 - 1.RRF	CALCULATED : 2 - FEB - 1992, 15:11	

		MIKE 11
		Dwg no.:
DATA FILE : RM1 - 1.RDF	BOUNDARY FILE : BN - 1.BSF	
RESULT FILE : RES1 - 1.RRF	CALCULATED : 2 - FEB - 1992, 15:11	

DC-2: Case 1-1



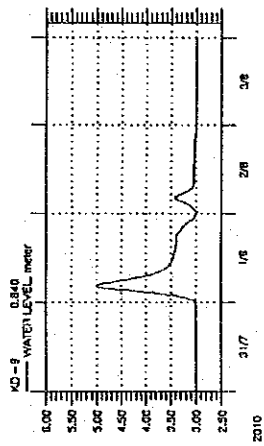
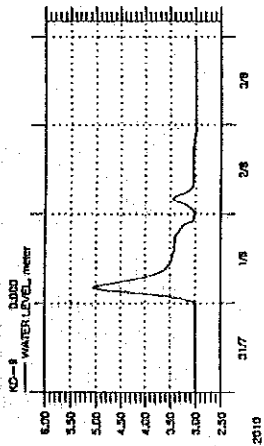
DC-2: Case 1-1



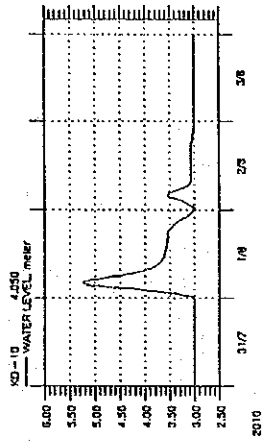
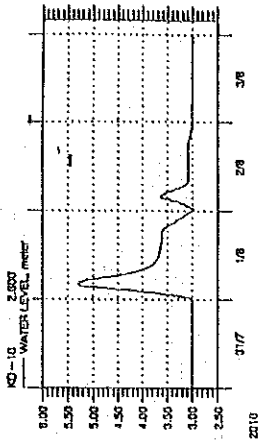
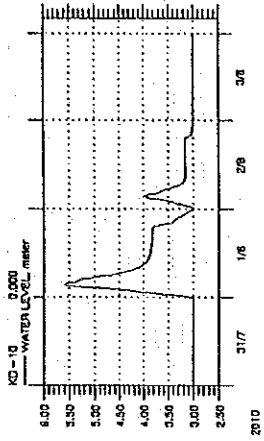
	MIKE 11
<small>Output:</small>	
DATA FILE : RN1-1.RDF	BOUNDARY FILE : BN-1.BSF
RESULT FILE : RES1-1.RRF	CALCULATED : 2-FEB-1992, 15:11

	MIKE 11
<small>Output:</small>	
DATA FILE : RN1-1.RDF	BOUNDARY FILE : BN-1.BSF
RESULT FILE : RES1-1.RRF	CALCULATED : 2-FEB-1992, 15:11

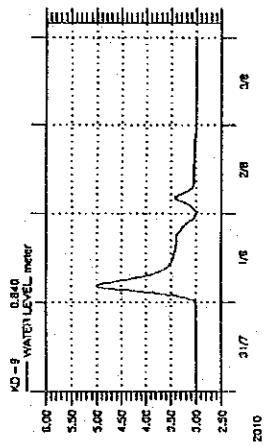
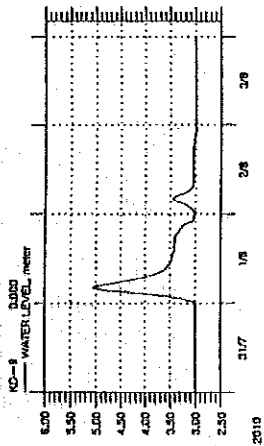
DC-2: Case 1-1



DC-2: Case 1-1



DC-2: Case 1-1

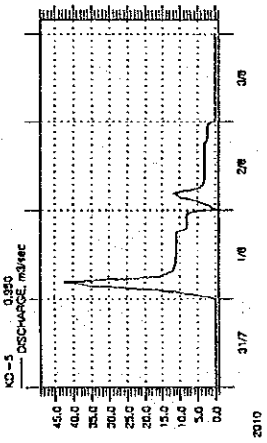
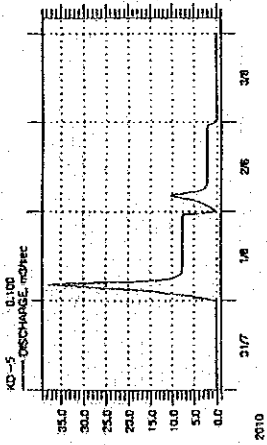


MIKE 11

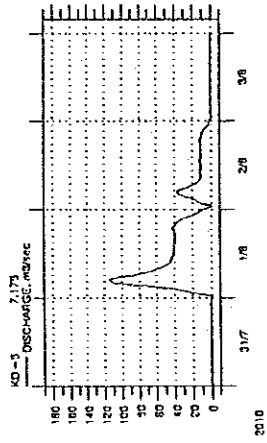
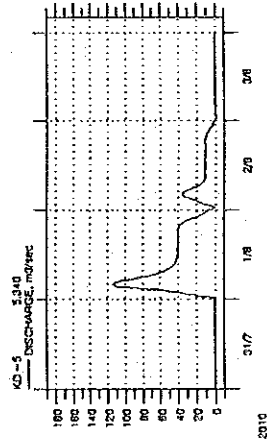
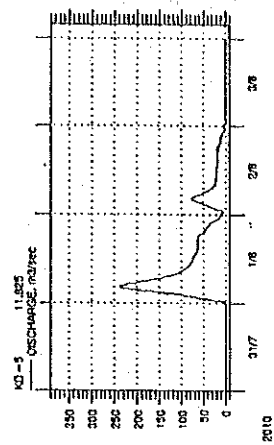
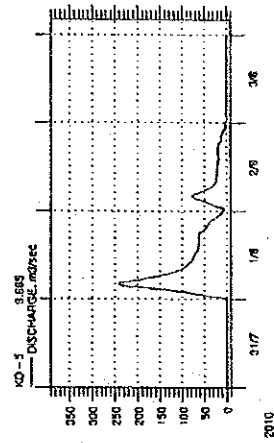
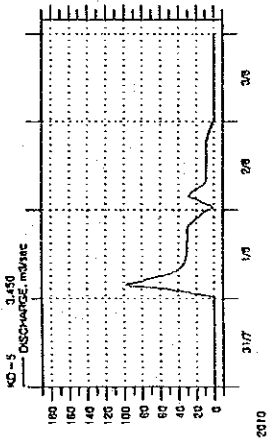
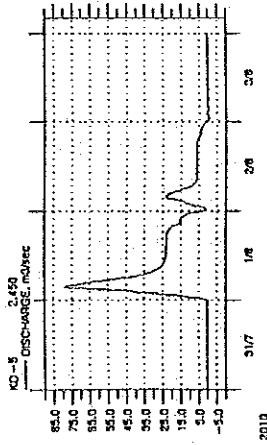
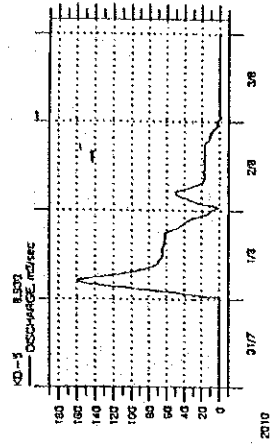
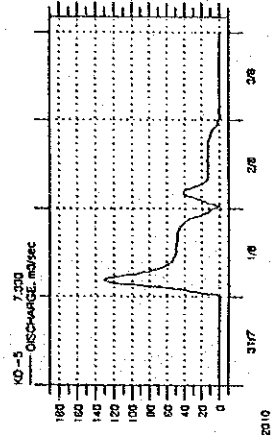
Drawn

DATA FILE : RN1-1.RDF
BOUNDARY FILE : BN-1.RSF
RESULT FILE : RES1-1.RRF
CALCULATED : 2 - FEB - 1992, 15:11

DC-2: Case 1-1



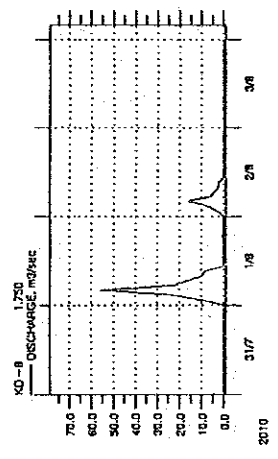
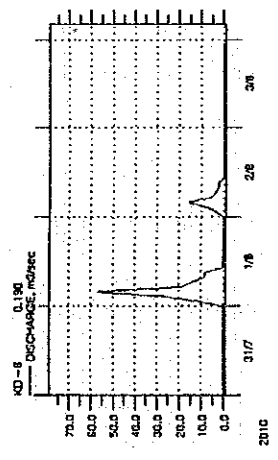
DC-2: Case 1-1



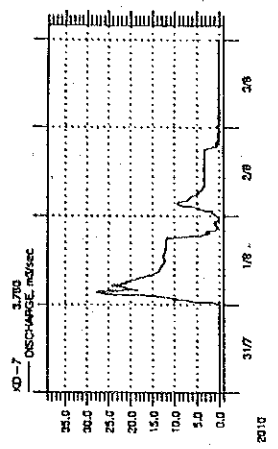
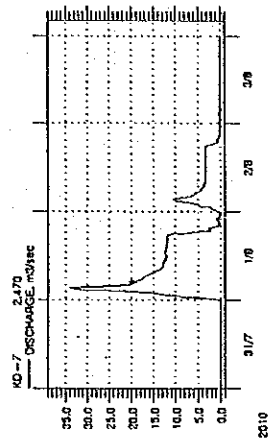
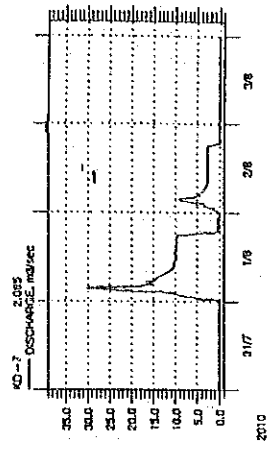
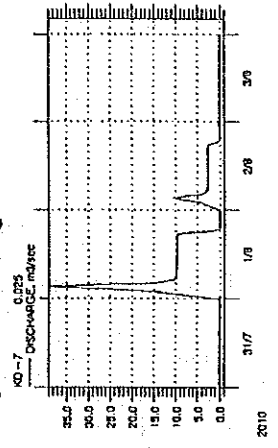
DATA FILE : RNI - 1.RDF	BOUNDARY FILE : BN - 1.BSF	MIKE 11
RESULT FILE : RES1 - 1.RRF	CALCULATED : 2 - FEB - 1992, 15:11	

DATA FILE : RNI - 1.RDF	BOUNDARY FILE : BN - 1.BSF	MIKE 11
RESULT FILE : RES1 - 1.RRF	CALCULATED : 2 - FEB - 1992, 15:11	

DC-2: Case 1-1



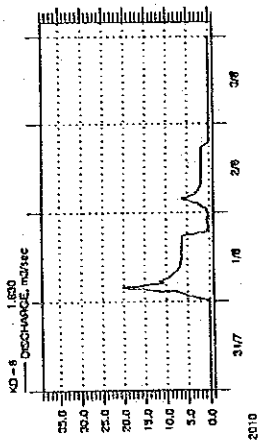
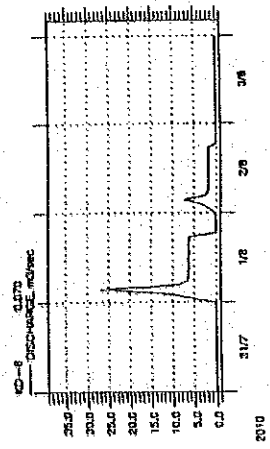
DC-2: Case 1-1



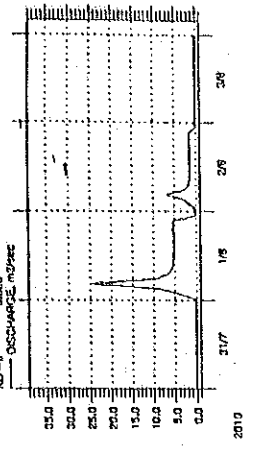
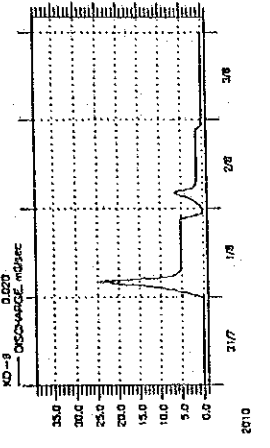
DATA FILE : RN1 - 1.RDF	BOUNDARY FILE : BN - 1.BSF	MIKE 11
RESULT FILE : RES1 - 1.RRF	CALCULATED : 2 - FEB - 1992, 15:11	

DATA FILE : RN1 - 1.RDF	BOUNDARY FILE : BN - 1.BSF	MIKE 11
RESULT FILE : RES1 - 1.RRF	CALCULATED : 2 - FEB - 1992, 15:11	

DC-2: Case 1-1



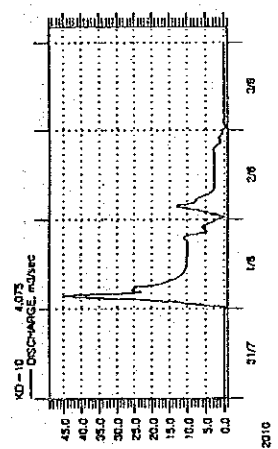
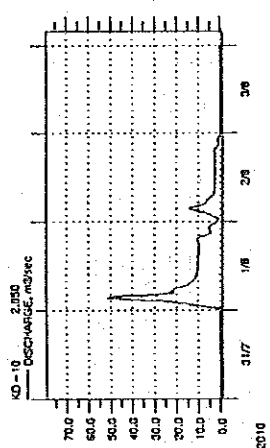
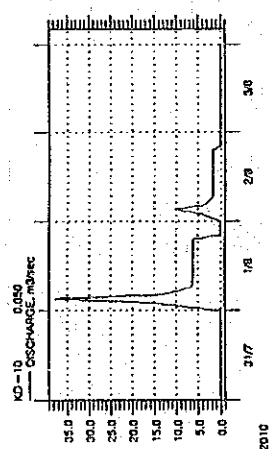
DC-2: Case 1-1



		MIKE 11
		<small>Copyright</small>
DATA FILE : RN1-1.RDF	BOUNDARY FILE : BN-1.BSF	
RESULT FILE : RES1-1.RRF	CALCULATED : 2-FEB-1992, 15:11	

		MIKE 11
		<small>Copyright</small>
DATA FILE : RN1-1.RDF	BOUNDARY FILE : BN-1.BSF	
RESULT FILE : RES1-1.RRF	CALCULATED : 2-FEB-1992, 15:11	

DC-2 : Case 1-1



DC-2 : Case 1-2 Without Retarding Pond and With Pump Station

```

RIVER MODEL          MAIN MENU          Version 2.10
-----
X  A.  River / Catchment                :
X  B.  Boundaries / Time Series         :
X  C.  Transport dispersion and cohesive sediment :
X  D.  Water quality                   :
X  E.  Non cohesive sediment           :
X  G.  Supplementary data              :
X  H.  Calculation                     :
X  J.  Presentation of Results         :
Enter choice: (,,A-J)
X : Installed Modules                  :
Data area ..... : 437 Kb
Free disk space ..... : 18452 Kb
Current directory : C:\PROJECTS\DC-2
<Esc> Return to Opening Menu
<F1> Help Menu
  
```

		MIKE 11
		Date:
DATA FILE : RN1-1.RDF	BOUNDARY FILE : BN-1.BSF	
RESULT FILE : RES1-1.RRF	CALCULATED : 2-FEB-1992, 15:11	

DC-2: Case 1-2

```

A RIVER SETUP DATA
Enter file name : RNI-2.RDF

1. LOAD      System File --> Edit File
2. SAVE      Edit File  --> System File
3. DELETE    Edit File  /  System File
4. PRESENT   System File
5. EDIT
6. DATA BASE WITH CROSS SECTIONS
7. DIRECTORY

Enter no. (1-7) :

<Esc> return to MIKE 11 Main Menu      <F1> Help Menu

```

Edit File is empty

DC-2: Case 1-2

```

B MODEL BOUNDARIES
Enter file name : BN-2.BSF

1. LOAD      System File --> Edit File
2. SAVE      Edit File  --> System File
3. DELETE    Edit File  /  System File
5. EDIT      Edit File
6. TIME SERIES DATA BASE
7. DIRECTORY

Enter no (1-3,5-7) :

<Esc> return to MIKE 11 Main Menu      <F1> Help Menu

```

Edit File is empty

```

I MENU A.5 RIVER SYSTEM GENERAL VIEW MIKE 11
number
1 RIVER BRANCHES ..... 6
2 RIVER CROSS-SECTIONS
3 BROADCRESTED WEIRS ..... 0
4 SPECIAL WEIRS ..... 0
5 CULVERTS ..... 0
6 Q = Q(t) ..... 1
7 Q = f(Q,h upstream) ..... 0
8 Q-h BOUNDARIES ..... 0
9 ..... 0
T TEXT ..... 0
D DATA BASE NAME (cross-sections) ..... CASE-1
A ADD ON MODULES

Select : <Enter> or (0-9,0,T,D,A)
<Esc> return to Menu A      <F1> Help Menu

```


DC-2 : Case 1-2

```

18 | B.5 | EXTRACTION FROM THE DATA BASE
|-----|
| BOUNDARY No. 16 at: | Boundary | 1: WATER LEVEL
| River name : KD-5 | type...: 1 | 2: DISCHARGE
| Chainage(km) : 12.000 | | 3: WIND FIELD
| | | 4: RESISTANCE FACTOR
| | | 5: GATE LEVEL
|-----|
| Name of | Name of | Start time | Finish time
| Data base | Event | |
|-----|
| WL | BALUHWL | 2010 7 31 0 0 | 2010 8 3 23 59
|-----|
| Right (Y/n) :

```

Enter: (E/I/D/ESC) Edit Insert Delete <esc>=return

DC-2 : Case 1-2

```

17 | B.5 | EXTRACTION FROM THE DATA BASE
|-----|
| BOUNDARY No. 17 at: | Boundary | 1: WATER LEVEL
| River name : KD-5 | type...: 2 | 2: DISCHARGE
| Chainage(km) : 11.800 | | 3: WIND FIELD
| | | 4: RESISTANCE FACTOR
| | | 5: GATE LEVEL
|-----|
| Name of | Name of | Start time | Finish time
| Data base | Event | |
|-----|
| PUMP | PUMP | 2010 7 31 0 0 | 2010 8 3 23 59
|-----|
| Right (Y/n) :

```

Enter: (E/I/D/ESC) Edit Insert Delete <esc>=return

```

2 | B.6.5.E | WATER LEVELS | Data Base Name: | WL
|-----|
| IDENTIFICATION : BALUHWL | Delta t (hours) |
| | | 0.00
|-----|
| Time | Water level
| YYYY-MM-DD | HH.MM | (m)
|-----|
| 2010 7 31 0 0 | 6.15
| 2010 8 3 23 59 | 6.15
|-----|
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |

```

Enter: (E/I/F/D/T/B/L/ESC) Edit Insert Find Delete Top Bottom Line <esc>=return

```

| B.6.5.E | DISCHARGES | Data Base Name: | PUMP
|-----|
| IDENTIFICATION : PUMP | Delta t (hours) |
| | | 0.000
|-----|
| Time | Discharge
| YYYY-MM-DD | HH.MM | (m3/s)
|-----|
| 2010 7 31 0 0 | 0.010
| 2010 8 1 0 0 | 0.010
| 2010 8 1 1 0 | 54.600
| 2010 8 2 23 59 | 54.600
| 2010 8 3 1 0 | 0.010
| 2010 8 3 23 59 | 0.010
|-----|
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |

```

Enter: (E/I/F/D/T/B/L/ESC) Edit Insert Find Delete Top Bottom Line <esc>=return

DC-2: Case 1-2

```

G SUPPLEMENTARY DATA
Enter file name : SUP2.SSF

1. LOAD      System File --> Edit File
2. SAVE      Edit File  --> System File
3. DELETE    Edit File  /  System File

5. EDIT

7. DIRECTORY

Enter no (1-3,5,7) :

<Esc> return to MIKE 11 Main Menu          <F1> Help Menu

```

Edit File is empty

DC-2: Case 1-2

```

G.5 SUPPLEMENTARY DATA - GENERAL OVERVIEW

1 INITIAL CONDITIONS ..... Number of -
2 WIND FACTORS ..... 2 locations
3 RESISTANCE NUMBER ..... 0
4 FLOW DESCRIPTION ..... "
5 DEFAULT VALUES ..... 0
6 WATER LOSS PARAMETERS ..... 1 page
7 TEXT ..... 0 locations
                                0 lines

Select: <Enter> or (1-7)
<Esc> return to Menu G          <F1> Help Menu

```


DC-2: Case 1-2

G.5.1 INITIAL CONDITIONS

Global values :		H-initial	Q-initial
		3.00	0.000
Branches where local values are applicable;			
River name	River chainage	H-initial	Q-initial
1 KD-5	11.810	6.15	0.010
2 KD-5	12.000	6.15	0.010
3			
4			
5			
6			
7			
8			
9			
10			

Entr: (E/I/F/D/T/B/L/ESC) Edit Insert Find Delete Top Bottom Line <esc>=retur

DC-2: Case 1-2

J RESULT PRINT/PLOT MIKE LL

Enter file name: RES1-2.RRF -

- 1. SELECT result file
- 2. SELECT model.....: HD-model
- 3. DELETE result file
- 4. PRINT summary
- 5. TIME SERIES print / plot
- 6. PROFILE plot
- 7. DIRECTORY

Enter option (1-7) :

<Esc> Return to Main Menu

<F1> Help Menu

DC-2: Case 1-2
 GRID POINT RESULT SUMMARY

DC-2: Case 1-2

WATER LEVEL,	Location	Minimum meter	Maximum meter	Location	Minimum meter	Maximum meter
KD-5	0.000	2.89	7.37	KD-6	0.730	7.37
KD-5	0.200	2.89	7.37	KD-6	1.080	7.37
KD-5	0.700	2.90	7.37	KD-6	1.480	7.37
KD-5	1.200	2.90	7.37	KD-6	1.700	7.37
KD-5	1.700	2.90	7.37	KD-6	1.800	7.37
KD-5	2.000	2.90	7.37	KD-7	0.000	7.37
KD-5	2.000	2.90	7.37	KD-7	0.050	7.37
KD-5	2.200	2.91	7.37	KD-7	0.260	7.37
KD-5	2.700	2.91	7.37	KD-7	0.540	7.37
KD-5	3.200	2.91	7.37	KD-7	0.690	7.37
KD-5	3.700	2.92	7.37	KD-7	0.940	7.37
KD-5	4.200	2.92	7.37	KD-7	1.220	7.37
KD-5	4.320	2.92	7.37	KD-7	1.420	7.37
KD-5	4.570	2.93	7.37	KD-7	1.720	7.37
KD-5	4.820	2.93	7.37	KD-7	1.950	7.37
KD-5	5.070	2.93	7.37	KD-7	2.220	7.37
KD-5	5.200	2.93	7.37	KD-7	2.720	7.37
KD-5	5.200	2.93	7.37	KD-7	3.035	7.37
KD-5	5.240	2.93	7.37	KD-7	3.350	7.37
KD-5	5.440	2.93	7.37	KD-7	3.720	7.37
KD-5	5.710	2.94	7.37	KD-7	3.800	7.37
KD-5	5.910	2.94	7.37	KD-8	0.000	7.37
KD-5	6.260	2.94	7.37	KD-8	0.140	7.37
KD-5	6.480	2.94	7.37	KD-8	0.590	7.37
KD-5	6.700	2.94	7.37	KD-8	0.855	7.37
KD-5	6.950	2.94	7.37	KD-8	1.120	7.37
KD-5	7.150	2.95	7.37	KD-8	1.460	7.37
KD-5	7.200	2.95	7.37	KD-8	1.800	7.37
KD-5	7.200	2.95	7.37	KD-9	0.000	7.37
KD-5	7.220	2.95	7.37	KD-9	0.040	7.37
KD-5	7.440	2.94	7.37	KD-9	0.540	7.37
KD-5	7.680	2.94	7.37	KD-9	0.840	7.37
KD-5	7.930	2.94	7.37	KD-9	1.000	7.37
KD-5	8.150	2.94	7.37	KD-10	0.000	7.37
KD-5	8.510	2.94	7.37	KD-10	0.100	7.37
KD-5	8.600	2.94	7.37	KD-10	0.600	7.37
KD-5	8.710	2.94	7.37	KD-10	1.100	7.37
KD-5	9.150	2.94	7.37	KD-10	1.600	7.37
KD-5	9.270	2.94	7.37	KD-10	2.100	7.37
KD-5	9.300	2.94	7.37	KD-10	2.88	7.37
KD-5	9.300	2.94	7.37	KD-10	2.88	7.37
KD-5	9.300	2.94	7.37	KD-10	2.89	7.37
KD-5	9.300	2.94	7.37	KD-10	3.100	7.37
KD-5	9.340	2.94	7.37	KD-10	3.600	7.37
KD-5	9.790	2.94	7.37	KD-10	4.050	7.37
KD-5	10.070	2.94	7.37	KD-10	4.100	7.37
KD-5	10.320	2.94	7.37			
KD-5	10.620	2.94	7.37			
KD-5	10.900	2.94	7.37			
KD-5	11.150	2.93	7.37			
KD-5	11.400	2.92	7.37			
KD-5	11.600	2.91	7.37			
KD-5	11.850	6.15	6.15			
KD-5	12.000	6.15	6.15			
KD-6	0.000	2.91	7.37			
KD-6	0.380	2.92	7.37			

DISCHARGE,

DC-2: Case 1-2

Location	Minimum m3/sec	Maximum m3/sec
KD-5	0.100	37.164
KD-5	-0.117	35.184
KD-5	-0.293	37.189
KD-5	0.950	34.174
KD-5	-1.001	31.782
KD-5	-1.257	65.112
KD-5	1.850	61.700
KD-5	-4.614	56.617
KD-5	4.927	77.254
KD-5	-5.336	70.745
KD-5	3.450	66.488
KD-5	-5.796	63.913
KD-5	3.950	60.334
KD-5	-4.260	56.647
KD-5	4.445	
KD-5	-5.924	
KD-5	4.695	
KD-5	-5.882	
KD-5	4.945	
KD-5	-5.829	

KD-5	5.135	53.793
KD-5	5.220	74.212
KD-5	5.340	72.289
KD-5	5.575	68.461
KD-5	5.810	64.572
KD-5	6.177	59.999
KD-5	-6.099	55.224
KD-5	6.370	51.527
KD-5	6.590	49.264
KD-5	6.825	48.187
KD-5	7.050	47.615
KD-5	7.175	51.635
KD-5	7.210	53.196
KD-5	7.330	50.304
KD-5	7.560	47.813
KD-5	-4.871	47.475
KD-5	7.805	47.635
KD-5	-4.784	57.651
KD-5	8.040	57.586
KD-5	-4.560	57.388
KD-5	8.330	57.348
KD-5	-4.461	107.075
KD-5	8.555	101.797
KD-5	-3.617	96.181
KD-5	8.930	90.679
KD-5	-3.393	84.917
KD-5	9.210	78.495
KD-5	-3.168	72.337
KD-5	9.285	72.337
KD-5	-3.122	66.564
KD-5	9.420	61.528
KD-5	-3.426	54.600
KD-5	9.665	54.810
KD-5	-3.401	56.050
KD-5	9.930	53.840
KD-5	-3.437	51.788
KD-5	10.195	49.292
KD-5	-3.471	47.004
KD-5	10.470	45.789
KD-5	-3.433	38.578
KD-5	10.760	37.380
KD-5	-3.220	
KD-5	11.025	
KD-5	-1.921	
KD-5	11.275	
KD-5	-1.035	
KD-5	11.500	
KD-5	0.000	
KD-5	-0.193	
KD-5	11.925	
KD-5	-0.358	
KD-6	0.555	
KD-6	-1.095	
KD-6	0.905	
KD-6	-1.553	
KD-6	1.280	
KD-6	-1.615	
KD-6	1.590	
KD-6	-1.702	
KD-6	1.750	
KD-6	-1.786	
KD-7	0.025	
KD-7	-0.025	
KD-7	0.155	

DC-2: Case 1-2

Location	Minimum m3/sec	Maximum m3/sec
KD-7	0.400	35.251
KD-7	0.615	32.308
KD-7	-0.474	31.446
KD-7	-0.526	28.890
KD-7	-0.721	26.567
KD-7	1.080	24.154
KD-7	-0.918	21.573
KD-7	1.570	19.082
KD-7	-1.156	23.769
KD-7	1.835	20.697
KD-7	-1.307	18.279
KD-7	2.470	15.550
KD-7	-1.346	14.824
KD-7	1.756	26.573
KD-7	-4.899	24.019
KD-7	3.535	20.817
KD-7	-8.496	18.364
KD-7	3.193	15.482
KD-7	-10.791	12.310
KD-8	0.070	22.874
KD-8	0.365	24.345
KD-8	-0.247	20.812
KD-8	0.723	19.576
KD-8	-0.474	37.555
KD-8	0.988	35.727
KD-8	-0.591	33.598
KD-8	1.290	31.539
KD-8	-0.696	29.314
KD-8	0.761	50.990
KD-9	0.020	47.644
KD-9	0.290	43.776
KD-9	-0.133	39.704
KD-9	0.690	-11.025
KD-9	-0.414	
KD-9	-0.066	
KD-10	0.050	
KD-10	0.350	
KD-10	-0.328	
KD-10	0.850	
KD-10	-0.765	
KD-10	1.156	
KD-10	-2.250	
KD-10	1.850	
KD-10	-2.029	
KD-10	2.350	
KD-10	-2.411	
KD-10	2.850	
KD-10	-5.822	
KD-10	3.350	
KD-10	-9.268	
KD-10	3.825	
KD-10	4.075	

DC-2: Case 1-2
GRID POINT RESULT SUMMARY

VELOCITY,	Location	Minimum m/sec	Maximum m/sec
KD-5	0.000	0.000	0.544
KD-5	0.100	-0.004	0.537
KD-5	0.200	-0.010	0.529
KD-5	0.450	-0.021	0.487
KD-5	0.700	-0.030	0.484
KD-5	0.950	-0.039	0.575
KD-5	1.200	-0.046	0.526
KD-5	1.450	-0.053	0.482
KD-5	1.700	-0.058	0.442
KD-5	1.850	-0.048	0.353
KD-5	2.000	-0.042	0.330
KD-5	2.100	-0.130	0.715
KD-5	2.200	-0.115	0.653
KD-5	2.450	-0.104	0.586
KD-5	2.700	-0.102	0.546
KD-5	2.950	-0.100	0.508
KD-5	3.200	-0.091	0.443
KD-5	3.450	-0.085	0.492
KD-5	3.700	-0.087	0.575
KD-5	4.200	-0.089	0.543
KD-5	4.260	-0.089	0.512
KD-5	4.445	-0.089	0.483
KD-5	4.570	-0.089	0.468
KD-5	4.695	-0.089	0.452
KD-5	4.820	-0.088	0.436
KD-5	4.945	-0.088	0.421
KD-5	5.070	-0.087	0.406
KD-5	5.135	-0.086	0.391
KD-5	5.200	-0.083	0.375
KD-5	5.220	-0.080	0.358
KD-5	5.240	-0.079	0.389
KD-5	5.340	-0.078	0.480
KD-5	5.440	-0.077	0.484
KD-5	5.575	-0.076	0.471
KD-5	5.710	-0.075	0.459
KD-5	5.810	-0.074	0.442
KD-5	5.910	-0.073	0.425
KD-5	6.085	-0.072	0.413
KD-5	6.260	-0.071	0.401
KD-5	6.370	-0.069	0.379
KD-5	6.480	-0.068	0.357
KD-5	6.590	-0.067	0.344
KD-5	6.700	-0.066	0.331
KD-5	6.825	-0.065	0.318
KD-5	6.950	-0.064	0.305
KD-5	7.050	-0.063	0.291
KD-5	7.175	-0.062	0.276
KD-5	7.200	-0.061	0.266
KD-5	7.200	-0.060	0.265
KD-5	7.200	-0.059	0.261
KD-5	7.200	-0.057	0.256
KD-5	7.200	-0.056	0.297
KD-5	7.210	-0.055	0.294

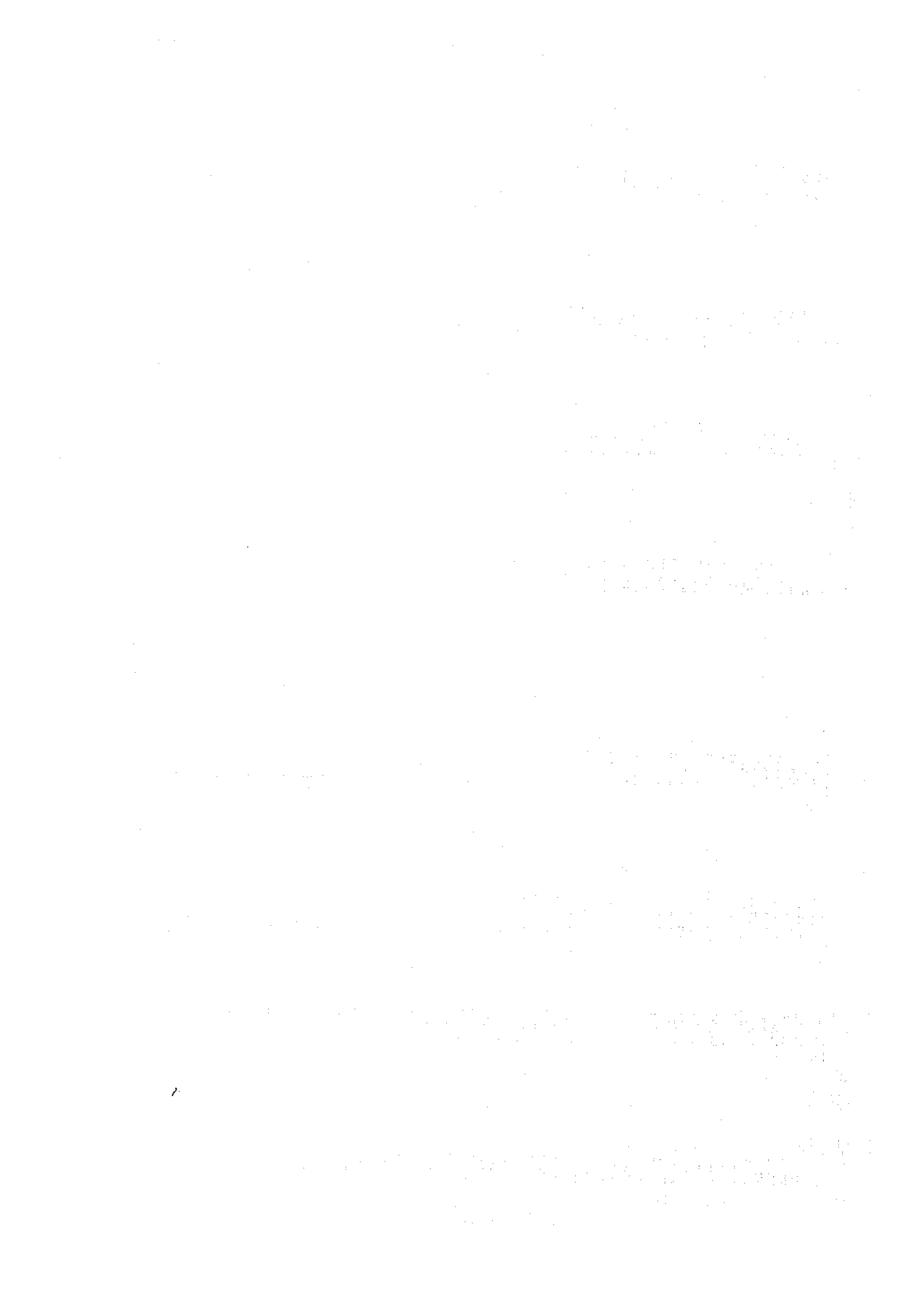
DC-2: Case 1-2
Location

Location	Minimum m/sec	Maximum m/sec
KD-5	7.220	0.293
KD-5	7.330	-0.055
KD-5	7.440	0.334
KD-5	7.560	-0.053
KD-5	7.680	0.314
KD-5	7.805	-0.051
KD-5	7.930	0.304
KD-5	8.040	-0.049
KD-5	8.150	0.295
KD-5	8.330	-0.047
KD-5	8.510	0.298
KD-5	8.555	-0.044
KD-5	8.600	0.300
KD-5	8.655	-0.042
KD-5	8.710	0.291
KD-5	8.930	-0.034
KD-5	9.150	0.332
KD-5	9.210	-0.023
KD-5	9.270	0.327
KD-5	9.300	-0.022
KD-5	9.385	0.328
KD-5	9.420	-0.022
KD-5	9.540	0.421
KD-5	9.665	-0.023
KD-5	9.790	0.542
KD-5	9.930	-0.022
KD-5	10.070	0.533
KD-5	10.195	-0.021
KD-5	10.320	0.521
KD-5	10.470	-0.022
KD-5	10.620	0.509
KD-5	10.760	-0.021
KD-5	10.900	0.497
KD-5	11.025	-0.019
KD-5	11.150	0.484
KD-5	11.275	-0.018
KD-5	11.400	0.474
KD-5	11.500	-0.016
KD-5	11.600	0.465
KD-5	11.800	-0.015
KD-5	11.850	0.453
KD-5	11.925	-0.013
KD-5	12.000	0.446
KD-6	0.000	-0.012
KD-6	0.190	-0.010
KD-6	0.380	0.427
KD-6	0.555	-0.008
KD-6	0.730	-0.007
KD-6	0.905	-0.005
KD-6	1.080	-0.004
KD-6	1.280	-0.003
KD-6	1.480	-0.002
KD-6	1.590	0.407
KD-6	1.590	0.404
KD-6	1.590	0.255
KD-6	1.590	0.187
KD-6	1.590	0.186
KD-6	1.590	0.762
KD-6	1.590	0.739
KD-6	1.590	0.718
KD-6	1.590	0.687
KD-6	1.590	0.660
KD-6	1.590	0.633
KD-6	1.590	0.606
KD-6	1.590	0.577
KD-6	1.590	0.547
KD-6	1.590	-0.047
KD-6	1.590	-0.048

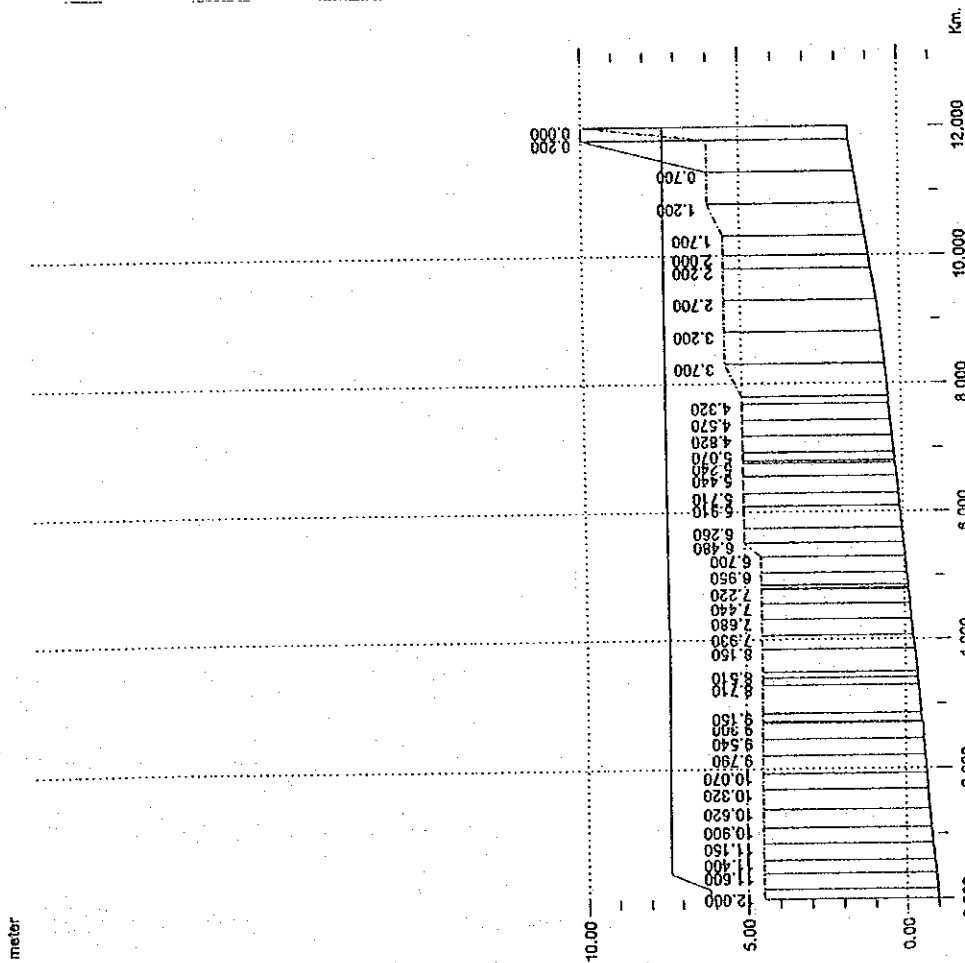
DC-2 : Case 1-2

DC-2 : Case 1-2

	Location	Minimum m/sec	Maximum m/sec
KD-6	1.700	-0.048	0.514
KD-6	1.750	-0.048	0.508
KD-6	1.800	-0.048	0.591
KD-7	0.000	0.615	0.852
KD-7	0.025	0.612	0.796
KD-7	0.050	0.609	0.746
KD-7	0.155	0.589	0.699
KD-7	0.260	0.569	0.657
KD-7	0.400	0.541	0.610
KD-7	0.540	0.515	0.564
KD-7	0.615	0.502	0.522
KD-7	0.690	0.488	0.486
KD-7	0.815	0.466	0.434
KD-7	0.940	0.444	0.394
KD-7	1.080	0.420	0.350
KD-7	1.220	0.397	0.300
KD-7	1.320	0.380	0.250
KD-7	1.420	0.363	0.200
KD-7	1.570	0.338	0.189
KD-7	1.720	0.314	0.187
KD-7	1.835	0.298	0.206
KD-7	1.950	0.282	0.487
KD-7	2.085	0.252	0.471
KD-7	2.220	0.270	0.455
KD-7	2.470	0.332	0.409
KD-7	2.720	0.301	0.365
KD-7	2.878	0.281	0.340
KD-7	3.035	0.261	0.315
KD-7	3.193	0.242	0.291
KD-7	3.350	0.223	0.267
KD-7	3.535	0.200	0.238
KD-7	3.720	0.189	0.209
KD-7	3.760	0.187	0.182
KD-7	3.800	0.187	0.158
KD-8	0.000	0.206	0.362
KD-8	0.070	0.471	0.360
KD-8	0.140	0.455	0.358
KD-8	0.365	0.409	0.326
KD-8	0.590	0.365	0.297
KD-8	0.723	0.340	0.280
KD-8	0.835	0.315	0.264
KD-8	0.988	0.291	0.256
KD-8	1.120	0.267	
KD-8	1.290	0.238	
KD-8	1.460	0.209	
KD-8	1.630	0.182	
KD-8	1.800	0.158	
KD-9	0.000	0.362	
KD-9	0.020	0.360	
KD-9	0.040	0.358	
KD-9	0.290	0.326	
KD-9	0.540	0.297	
KD-9	0.890	0.280	
KD-9	0.840	0.264	
KD-9	0.920	0.256	

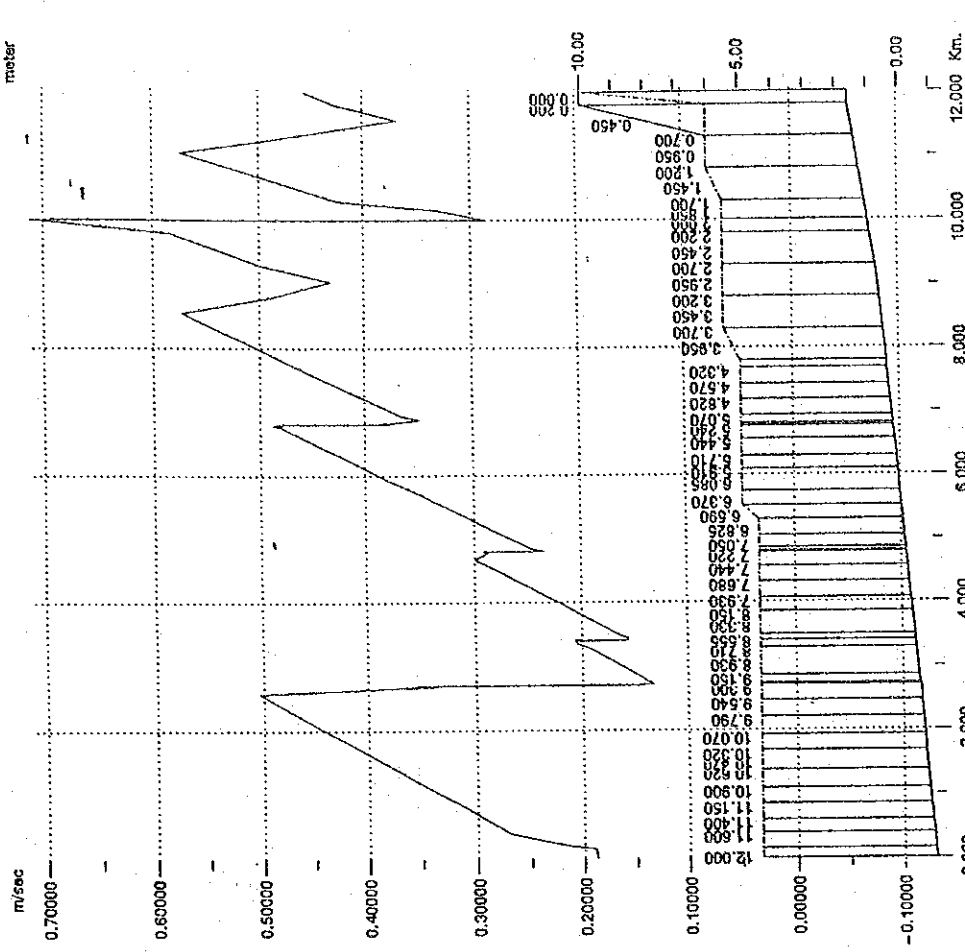


DC-2: Case 1-2



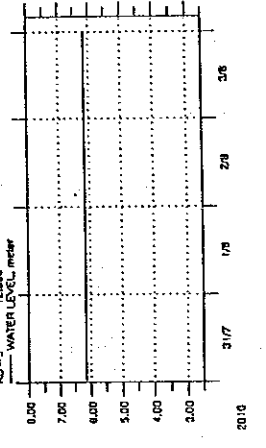
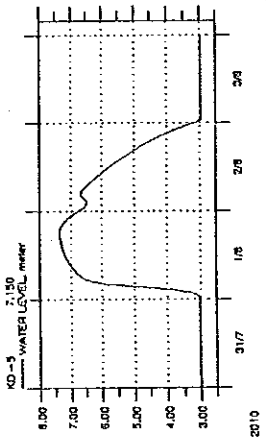
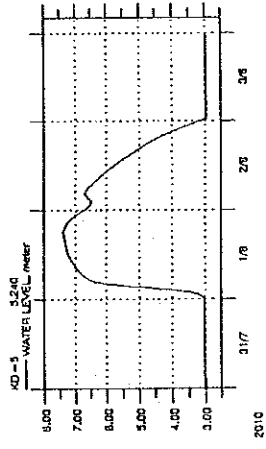
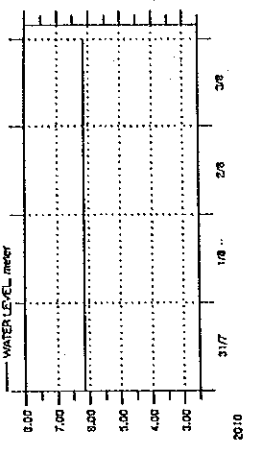
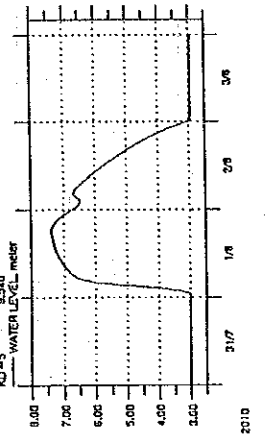
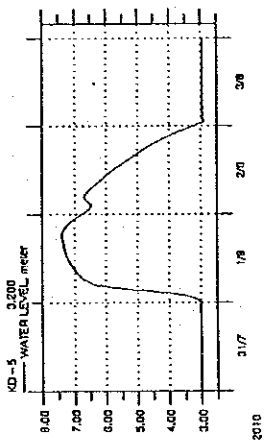
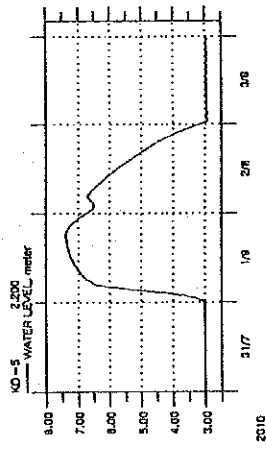
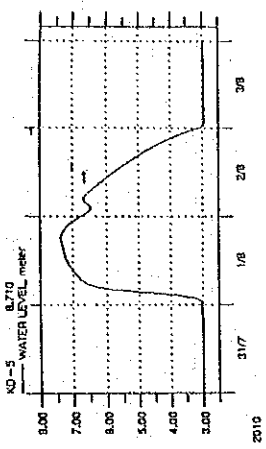
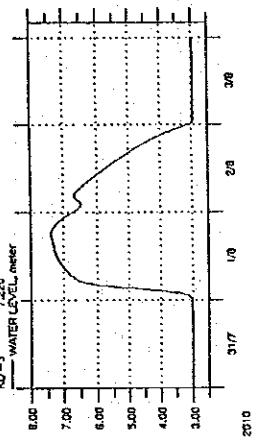
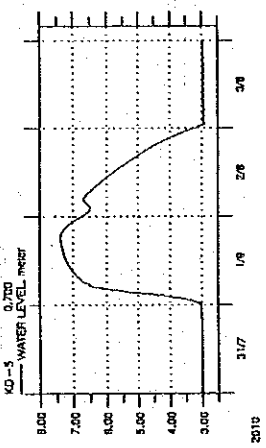
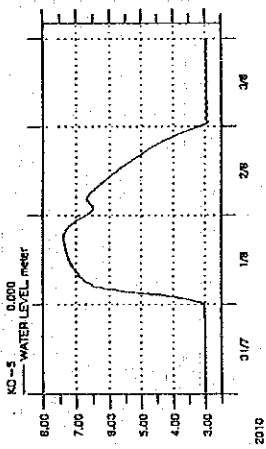
H: 1/75000 V: 1/150	KD-5 (Max. Vel.)	MIKE 11 Dist. (m):
PARAMETER : WATER LEVEL, DATA FILE : RNI - 2.RDF BOUNDARY FILE : BN - 2.BSF RESULT FILE : RES1 - 2.RRF CALCULATED : 3 - FEB - 1992, 10:37		

DC-2: Case 1-2



H: 1/75000 V: 1/150	KD-5	MIKE 11 Dist. (m):
PARAMETER : VELOCITY, DATA FILE : RNI - 2.RDF BOUNDARY FILE : BN - 2.BSF RESULT FILE : RES1 - 2.VRF CALCULATED : 3 - FEB - 1992, 10:37		

DC-2: Case 1-2

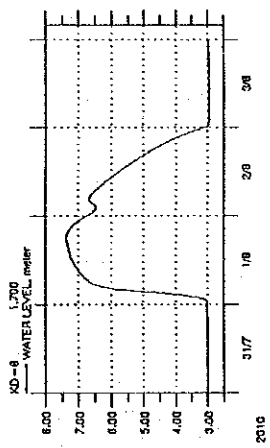
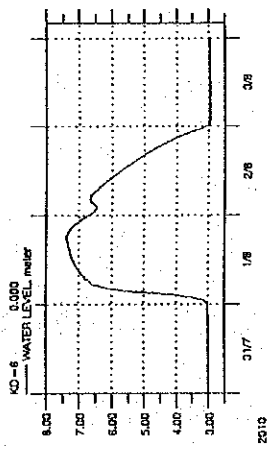


DC-2: Case 1-2

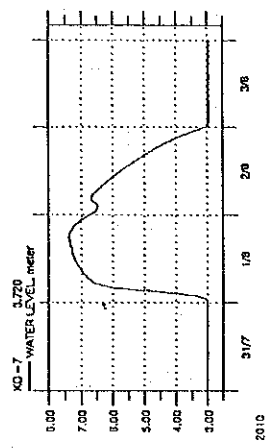
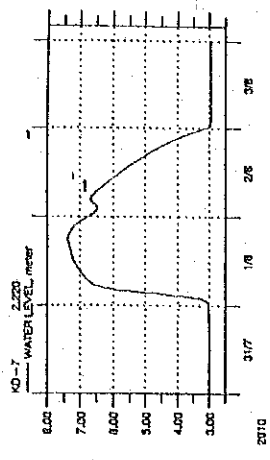
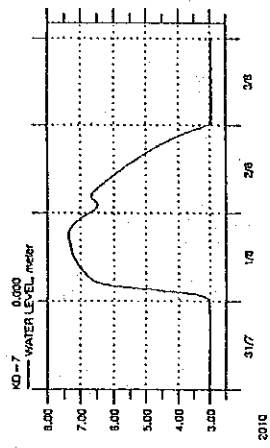
MIKE 11	
<small>Drawn by:</small>	
DATA FILE : RN1-2.RDF	BOUNDARY FILE : BN-2.BSF
RESULT FILE : RES1-2.RRF	CALCULATED : 3-FEB-1992, 10:37

MIKE 11	
<small>Drawn by:</small>	
DATA FILE : RN1-2.RDF	BOUNDARY FILE : BN-2.BSF
RESULT FILE : RES1-2.RRF	CALCULATED : 3-FEB-1992, 10:37

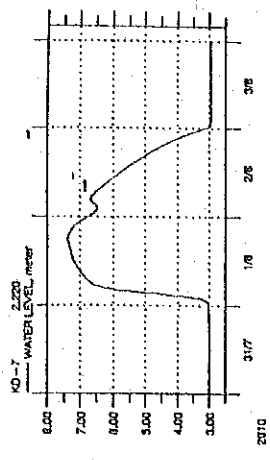
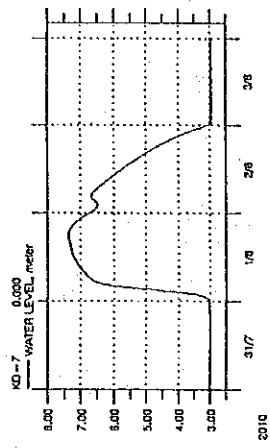
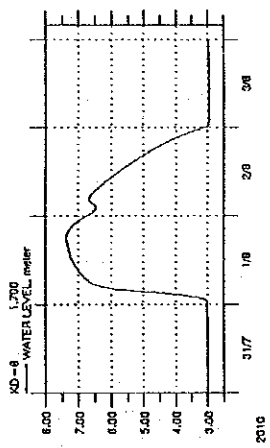
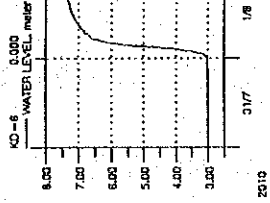
DC-2: Case 1-2



DC-2: Case 1-2



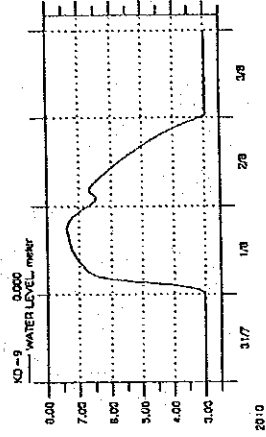
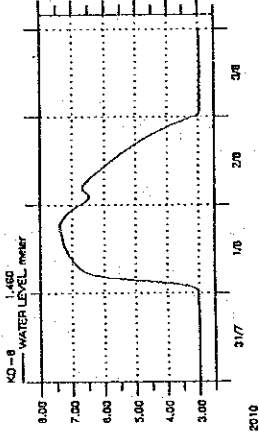
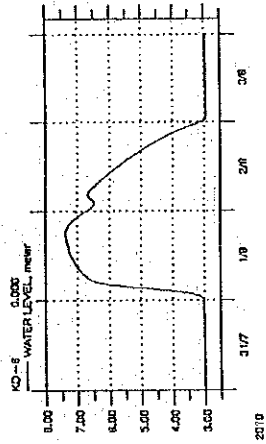
DC-2: Case 1-2



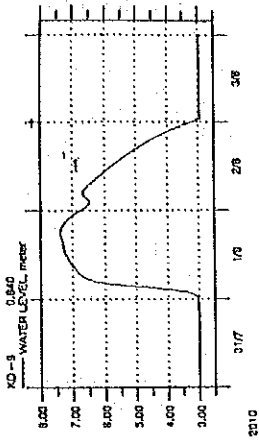
DATA FILE : RN1-2.RDF RESULT FILE : RES1-2.RRF	BOUNDARY FILE : BN-2.BSF CALCULATED : 3-FEB-1992, 10:37
MIKE 11	
Dwg no.:	

DATA FILE : RN1-2.RDF RESULT FILE : RES1-2.RRF	BOUNDARY FILE : BN-2.BSF CALCULATED : 3-FEB-1992, 10:37
MIKE 11	
Dwg no.:	

DC-2: Case 1-2



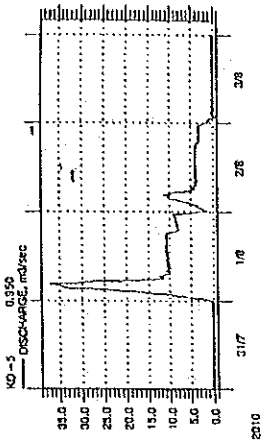
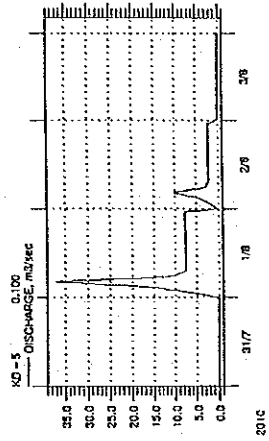
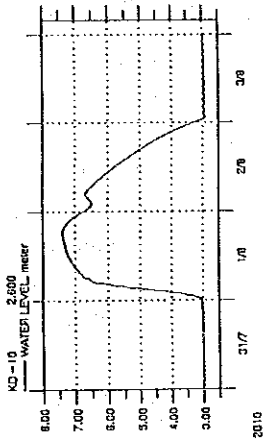
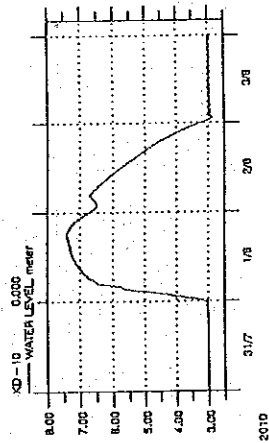
DC-2: Case 1-2



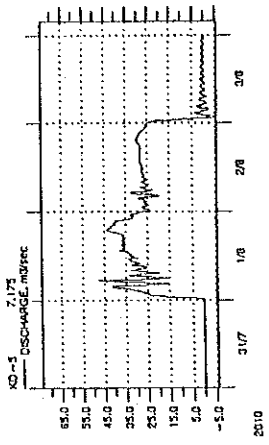
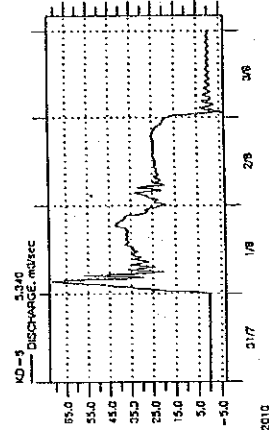
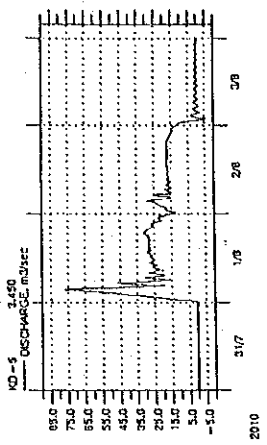
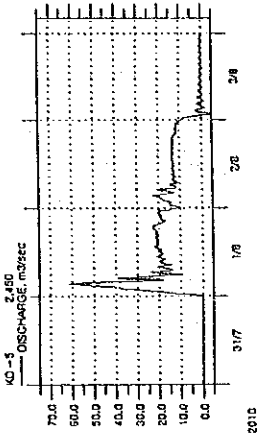
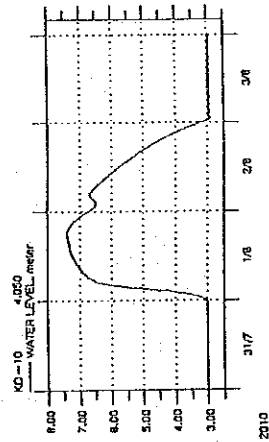
		MIKE 11	
		<small>Drawn by:</small>	
DATA FILE : RNI - 2.RDF	BOUNDARY FILE : BN - 2.BSF		
RESULT FILE : RES1 - 2.RRF	CALCULATED : 3 - FEB - 1992, 10:37		

		MIKE 11	
		<small>Drawn by:</small>	
DATA FILE : RNI - 2.RDF	BOUNDARY FILE : BN - 2.BSF		
RESULT FILE : RES1 - 2.RRF	CALCULATED : 3 - FEB - 1992, 10:37		

DC-2: Case 1-2



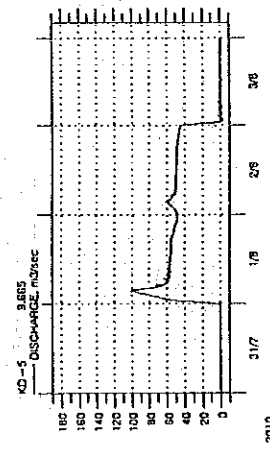
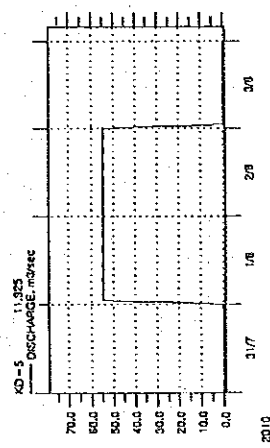
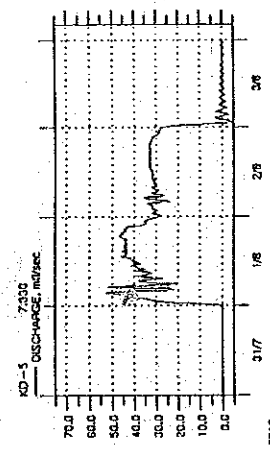
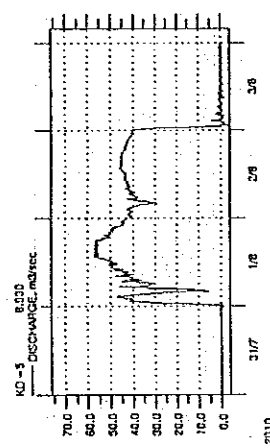
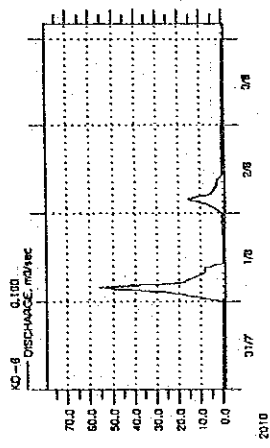
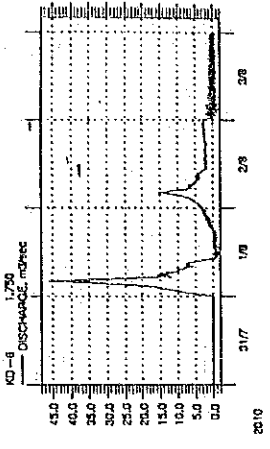
DC-2: Case 1-2



	MIKE 11
	Dwg. no.:
DATA FILE : RN1-2.RDF	BOUNDARY FILE : BN-2.BSF
RESULT FILE : RES1-2.RRF	CALCULATED : 3-FEB-1992, 10:37

	MIKE 11
	Dwg. no.:
DATA FILE : RN1-2.RDF	BOUNDARY FILE : BN-2.BSF
RESULT FILE : RES1-2.RRF	CALCULATED : 3-FEB-1992, 10:37

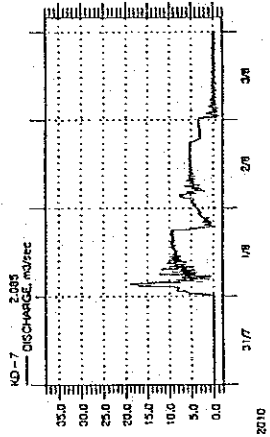
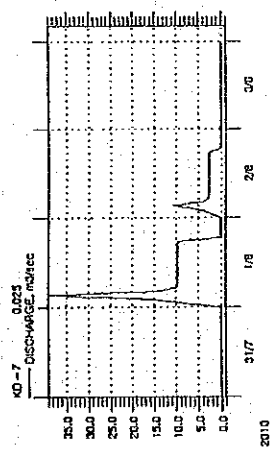
DC-2: Case 1-2



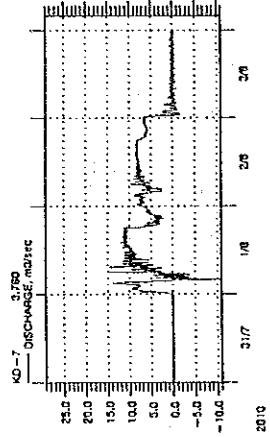
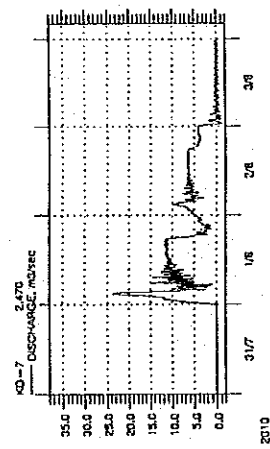
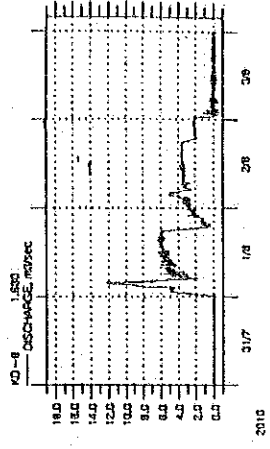
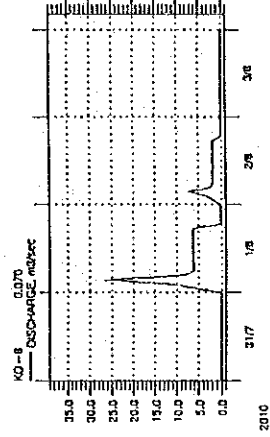
		MIKE 11
DATA FILE : RN1-2.RDF RESULT FILE : RES1-2.RRF		BOUNDARY FILE : BN-2.BSF CALCULATED : 3-FEB-1992, 10:37
		Orig no.:

		MIKE 11
DATA FILE : RN1-2.RDF RESULT FILE : RES1-2.RRF		BOUNDARY FILE : BN-2.BSF CALCULATED : 3-FEB-1992, 10:37
		Orig no.:

DC-2: Case 1-2



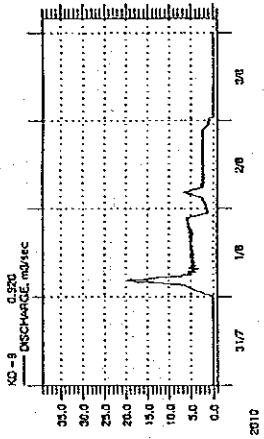
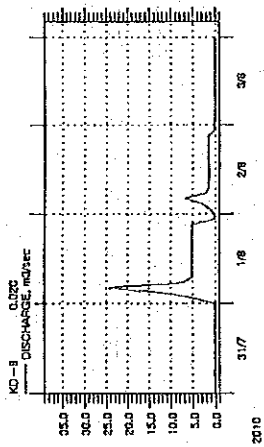
DC-2: Case 1-2



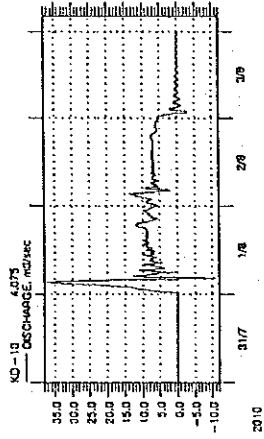
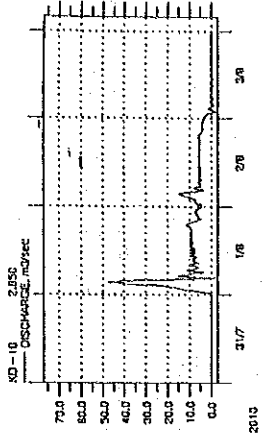
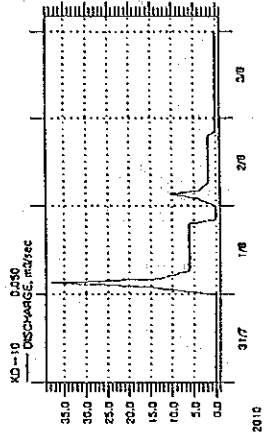
		MIKE 11
		<small>Output</small>
DATA FILE : RN1-2.RDF	BOUNDARY FILE : BN-2.BSF	
RESULT FILE : RES1-2.RRF	CALCULATED : 3-FEB-1992, 10:37	

		MIKE 11
		<small>Output</small>
DATA FILE : RN1-2.RDF	BOUNDARY FILE : BN-2.BSF	
RESULT FILE : RES1-2.RRF	CALCULATED : 3-FEB-1992, 10:37	

DC-2: Case 1-2

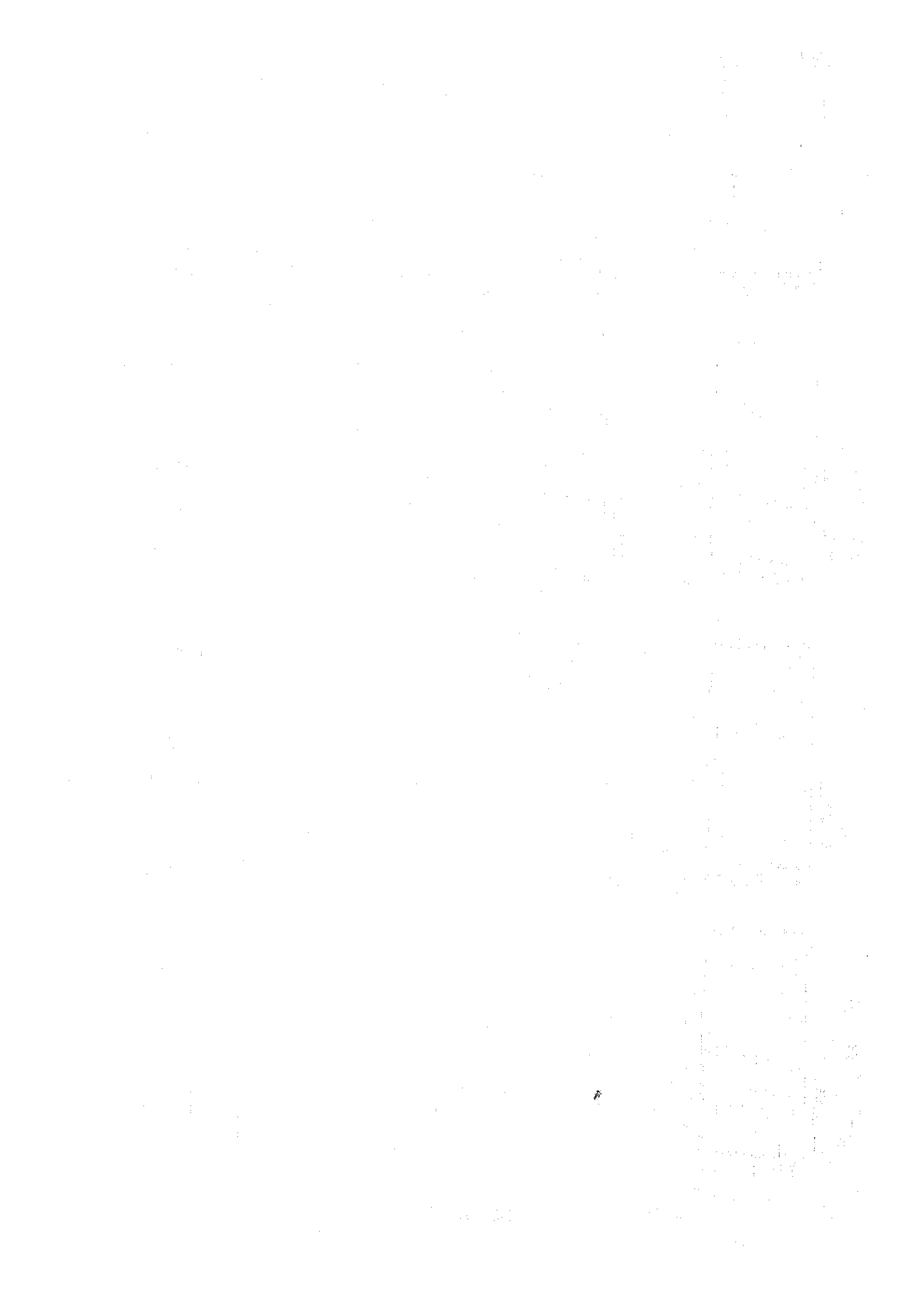


DC-2: Case 1-2



		MIKE 11
	DATA FILE : RN1-2.RDF RESULT FILE : RES1-2.RRF	BOUNDARY FILE : BN-2.BSF CALCULATED : 3-FEB-1992, 10:37
		Drawn by: MIKE 11

		MIKE 11
	DATA FILE : RN1-2.RDF RESULT FILE : RES1-2.RRF	BOUNDARY FILE : BN-2.BSF CALCULATED : 3-FEB-1992, 10:37
		Drawn by: MIKE 11



DC-2 : Case 2-1 With Retarding Pond and Without Pump Station

```

RIVER MODEL          MAIN MENU          Version 2.10
-----
X  A. River / Catchment
X  B. Boundaries / Time Series
X  C. Transport dispersion and cohesive sediment
X  D. Water quality
X  E. Non cohesive sediment
X  G. Supplementary data
X  H. Calculation
X  J. Presentation of results

Enter choice: (,A-J)
X : Installed Modules      Data area : 437 Kb
Current directory : C:\PROJECTS\DC-2  Free disk space : 18444 Kb
<Esc> Return to Opening Menu
<F1> Help Menu
  
```

```

A  RIVER SETUP DATA
-----
Enter file name : RN2-1.RDF

1. LOAD          System File ---> Edit File
2. SAVE         Edit File  --> System File
3. DELETE       Edit File  /  System File
4. PRESENT      System File
5. EDIT
6. DATA BASE WITH CROSS SECTIONS
7. DIRECTORY

Enter no. (1-7) :

<Esc> return to MIKE 11 Main Menu      <F1> Help Menu
  
```

Edit File is empty

```

MENU A.5  RIVER SYSTEM  GENERAL VIEW  MIKE 11
-----
1  RIVER BRANCHES ..... number 6
2  RIVER CROSS-SECTIONS
3  BROADCRESTED WEIRS ..... 0
4  SPECIAL WEIRS ..... 0
5  CULVERTS ..... 1
6  Q = Q(t) ..... 0
7  Q = f(Q,h upstream) ..... 0
8  Q-h BOUNDARIES ..... 0
9  ..... 0
0  CATCHMENTS ..... 0
T  TEXT ..... 0

D  DATA BASE NAME (cross-sections) ..... CASE-2
A  ADD ON MODULES

Select : <Enter> or (0-9,O,T,D,A)
<Esc> return to Menu A      <F1> Help Menu
  
```


DC-2: Case 2-1

```

A 6  CROSS SECTION DATA BASE
-----
DATA BASE NAME CASE-2
1. CREATE new data base
2. DELETE data base
3. DELETE data base
4. PRINT / PLOT data base
5. EDIT data base
6. CONVERT text files <=> data base
7. DATA BASE DIRECTORY Select (1,3-7) :
-----
<ESC> return to menu A
<F1> Help menu

```

DC-2: Case 2-1

```

CASE-2
KD-5
          9.540
COORDINATES          23.809
          1          90.465
FLOW DIRECTION
0
PROCESSED DATA
Level (m)      Cross sec area (m2)  Hydraulic radius (m)  Width (m)  Add. fl. areas (m2)  Resist. factor
-0.55         0.00         0.00         0.00         0
0.50          31.08         1.02         31.70         375000
1.00          47.43         1.49         33.70         1000000
1.50          64.78         1.94         35.70         2087000
2.00          83.13         2.39         37.70         4090000
2.50          102.48        2.83         39.70         5060000
3.00          122.83        3.26         41.70         5580000
3.50          144.18        3.69         43.70         5580000
4.00          166.53        4.11         45.70         5580000
4.50          189.82        4.52         47.70         5580000
*****

```


DC-2: Case 2-1

```

J      RESULT PRINT / PLOT      MIKE 11
-----
Enter file name:  RES2-1.RRF

1. SELECT      result file
2. SELECT      model.....:      HD-model
3. DELETE      result file
4. PRINT       summary
5. TIME SERIES Print / plot
6. PROFILE     Plot
7. DIRECTORY

Enter option (1-7) :

-----
<Esc> Return to Main Menu
<F1> Help Menu

```

DC-2: Case 2-1

GRID POINT RESULT SUMMARY

WATER LEVEL, Location

	Minimum meter	Maximum meter
KD-5	0.000	5.25
KD-5	0.200	2.98
KD-5	0.700	5.22
KD-5	1.200	5.13
KD-5	1.700	5.05
KD-5	2.000	4.98
KD-5	2.000	4.96
KD-5	2.000	4.96
KD-5	2.200	4.93
KD-5	2.700	4.86
KD-5	3.200	4.79
KD-5	3.700	4.70
KD-5	4.200	4.63
KD-5	4.320	4.61
KD-5	4.570	4.57
KD-5	4.820	4.54
KD-5	5.070	4.50
KD-5	5.200	4.48
KD-5	5.200	4.48
KD-5	5.240	4.48
KD-5	5.440	4.43
KD-5	5.710	4.38
KD-5	5.910	4.33
KD-5	6.260	4.26
KD-5	6.480	4.21
KD-5	6.700	4.16
KD-5	6.950	4.10
KD-5	7.150	4.06
KD-5	7.200	4.05
KD-5	7.220	4.05
KD-5	7.440	4.04
KD-5	7.680	3.98
KD-5	7.930	3.91
KD-5	8.150	3.83
KD-5	8.510	3.77
KD-5	8.600	3.65
KD-5	8.600	3.63
KD-5	8.710	3.60
KD-5	9.150	3.42
KD-5	9.270	3.40
KD-5	9.300	3.40
KD-5	9.300	3.40
KD-5	9.540	3.36
KD-5	9.790	3.36
KD-5	10.070	3.32
KD-5	10.320	3.29
KD-5	10.620	3.26
KD-5	10.900	3.23
KD-5	11.150	3.20
KD-5	11.400	3.17
KD-5	11.600	3.15
KD-5	11.850	3.02
KD-5	12.000	3.00
KD-6	0.000	4.36
KD-6	0.380	4.20

MIKE 11 SYSTEM

DC-2: Case 2-1

Location

Location	Minimum mg/sec	Maximum mg/sec
KD-5	0.100	99.619
KD-5	0.450	128.938
KD-5	0.950	128.833
KD-5	1.450	128.921
KD-5	1.850	129.068
KD-5	2.100	129.317
KD-5	2.450	129.334
KD-5	2.950	129.506
KD-5	3.450	129.580
KD-5	3.950	129.634
KD-5	4.260	147.664
KD-5	4.445	150.567
KD-5	4.695	150.706
KD-5	4.945	150.767

DC-2: Case 2-1

Location	Minimum meter	Maximum meter
KD-6	0.730	4.03
KD-6	1.080	3.85
KD-6	1.480	3.62
KD-6	1.700	3.48
KD-6	1.800	3.40
KD-7	0.000	4.10
KD-7	0.050	4.09
KD-7	0.260	4.05
KD-7	0.540	4.00
KD-7	0.690	3.97
KD-7	0.940	3.93
KD-7	1.220	3.89
KD-7	1.420	3.86
KD-7	1.720	3.82
KD-7	1.950	3.79
KD-7	2.220	3.77
KD-7	2.720	3.71
KD-7	3.035	3.69
KD-7	3.350	3.66
KD-7	3.720	3.64
KD-7	3.800	3.63
KD-8	4.16	4.15
KD-8	0.140	4.11
KD-8	0.590	4.10
KD-8	0.855	4.08
KD-8	1.120	4.06
KD-8	1.460	4.05
KD-8	1.800	4.05
KD-9	0.000	4.59
KD-9	0.040	4.58
KD-9	0.540	4.53
KD-9	0.840	4.50
KD-9	1.000	4.48
KD-10	0.000	5.53
KD-10	0.100	5.51
KD-10	0.600	5.43
KD-10	1.100	5.36
KD-10	1.600	5.30
KD-10	2.100	5.24
KD-10	2.600	5.13
KD-10	3.100	5.06
KD-10	3.600	5.00
KD-10	4.050	4.96
KD-10	4.100	4.96

KD-5	5.135	-1.602	99.619
KD-5	5.220	-1.675	128.938
KD-5	5.340	-1.710	128.833
KD-5	5.575	-1.749	128.921
KD-5	5.810	-1.794	129.068
KD-5	6.085	-1.839	129.317
KD-5	6.370	-1.895	129.334
KD-5	6.590	-1.936	129.506
KD-5	6.825	-1.966	129.580
KD-5	7.050	-1.985	129.634
KD-5	7.175	-1.999	147.664
KD-5	7.210	-2.053	150.567
KD-5	7.330	-2.081	150.706
KD-5	7.560	-2.104	150.767
KD-5	7.805	-2.115	150.806
KD-5	8.040	-2.128	150.818
KD-5	8.330	-2.179	183.152
KD-5	8.555	-2.313	183.199
KD-5	8.655	-2.349	183.176
KD-5	8.930	-2.266	183.169
KD-5	9.210	-2.285	287.911
KD-5	9.285	-2.298	104.407
KD-5	9.420	-0.093	104.309
KD-5	9.665	-0.097	104.280
KD-5	9.930	-0.096	104.285
KD-5	10.195	-0.094	104.282
KD-5	10.470	-0.093	104.261
KD-5	10.760	-0.100	104.228
KD-5	11.025	-0.097	104.191
KD-5	11.275	-0.093	104.185
KD-5	11.500	-0.095	104.189
KD-5	11.800	-0.096	57.145
KD-5	11.925	-0.048	56.983
KD-6	0.190	-0.061	57.082
KD-6	0.555	-0.098	57.108
KD-6	0.905	-0.207	57.118
KD-6	1.280	-0.129	57.096
KD-6	1.590	-0.109	38.749
KD-6	1.750	-0.026	38.451
KD-7	0.025	-0.074	
KD-7	0.155		

MIKE 11 SYSTEM

DC-2: Case 2-1

Location	Minimum m/sec	Maximum m/sec
D-7	0.400	38.047
D-7	-0.398	37.651
D-7	-0.349	37.244
D-7	-0.298	36.849
D-7	-0.336	36.449
D-7	-0.378	36.250
D-7	-0.523	36.050
D-7	-0.639	35.823
D-7	-0.680	40.358
D-7	-0.209	39.727
D-7	-0.210	39.153
D-7	-0.219	38.434
D-7	-0.226	37.961
D-7	-0.235	26.973
D-8	-0.078	26.132
D-8	-0.081	25.132
D-8	-0.111	24.440
D-8	-0.160	24.092
D-8	-0.193	23.530
D-8	-0.183	24.464
D-9	-0.016	24.652
D-9	-0.040	25.060
D-9	-0.065	25.253
D-9	-0.083	37.702
D-10	-0.050	36.014
D-10	-0.072	34.538
D-10	-0.132	33.230
D-10	-0.272	32.032
D-10	-0.336	54.627
D-10	-0.448	52.403
D-10	-0.541	50.410
D-10	-0.651	48.710
D-10	-0.721	47.769
D-10	-0.740	

DC-2: Case 2-1

GRID POINT RESULT SUMMARY

VELOCITY,

Location	Minimum m/sec	Maximum m/sec
KD-5	0.000	0.744
KD-5	0.100	0.754
KD-5	-0.001	0.764
KD-5	-0.003	0.748
KD-5	-0.007	0.780
KD-5	-0.010	0.824
KD-5	-0.012	0.821
KD-5	-0.014	0.814
KD-5	-0.015	0.809
KD-5	-0.017	0.667
KD-5	1.700	0.667
KD-5	1.850	0.585
KD-5	2.000	1.040
KD-5	-0.032	0.956
KD-5	2.100	0.873
KD-5	-0.026	0.854
KD-5	-0.026	0.836
KD-5	2.700	0.766
KD-5	-0.024	0.800
KD-5	-0.023	0.903
KD-5	3.450	0.895
KD-5	-0.023	0.883
KD-5	3.700	0.871
KD-5	-0.023	0.868
KD-5	4.200	0.866
KD-5	-0.023	0.861
KD-5	4.320	0.855
KD-5	4.445	0.851
KD-5	-0.023	0.847
KD-5	4.695	0.842
KD-5	4.820	0.837
KD-5	4.945	0.813
KD-5	-0.023	0.809
KD-5	5.070	1.014
KD-5	5.135	1.015
KD-5	5.200	1.007
KD-5	-0.022	1.008
KD-5	5.220	1.009
KD-5	-0.022	1.010
KD-5	5.240	1.012
KD-5	-0.022	1.015
KD-5	5.340	1.017
KD-5	-0.022	1.020
KD-5	5.440	1.022
KD-5	-0.022	1.025
KD-5	5.575	1.027
KD-5	-0.022	1.030
KD-5	5.710	1.034
KD-5	-0.022	1.039
KD-5	5.810	1.042
KD-5	-0.022	1.044
KD-5	5.910	1.044
KD-5	-0.022	1.026
KD-5	6.085	1.009
KD-5	-0.022	1.136
KD-5	6.260	1.139
KD-5	-0.022	
KD-5	6.370	
KD-5	-0.022	
KD-5	6.480	
KD-5	-0.022	
KD-5	6.590	
KD-5	-0.023	
KD-5	6.700	
KD-5	-0.023	
KD-5	6.825	
KD-5	-0.023	
KD-5	6.950	
KD-5	-0.023	
KD-5	7.050	
KD-5	-0.023	
KD-5	7.150	
KD-5	-0.022	
KD-5	7.175	
KD-5	-0.022	
KD-5	7.200	
KD-5	-0.022	
KD-5	7.210	
KD-5	-0.022	

DC-2: Case 2-1

Location	Minimum m/sec	Maximum m/sec
KD-5	7.220	1.123
KD-5	-0.022	1.448
KD-5	-0.022	1.454
KD-5	-0.022	1.153
KD-5	-0.022	1.159
KD-5	-0.022	1.165
KD-5	-0.022	1.171
KD-5	-0.022	1.176
KD-5	-0.022	1.182
KD-5	-0.021	1.188
KD-5	-0.021	1.198
KD-5	-0.021	1.208
KD-5	-0.020	1.171
KD-5	-0.020	1.144
KD-5	-0.021	1.360
KD-5	-0.020	1.324
KD-5	-0.019	1.282
KD-5	-0.019	1.300
KD-5	-0.019	1.318
KD-5	-0.019	1.320
KD-5	-0.018	1.323
KD-5	-0.018	1.327
KD-5	-0.018	1.366
KD-5	-0.018	1.818
KD-5	-0.018	2.129
KD-5	-0.006	1.484
KD-5	-0.001	0.768
KD-5	-0.001	0.748
KD-5	-0.001	0.746
KD-5	-0.001	0.744
KD-5	-0.001	0.742
KD-5	-0.001	0.741
KD-5	-0.001	0.737
KD-5	-0.001	0.737
KD-5	-0.001	0.733
KD-5	-0.001	0.731
KD-5	-0.001	0.730
KD-5	-0.001	0.727
KD-5	-0.001	0.725
KD-5	-0.001	0.724
KD-5	-0.001	0.722
KD-5	-0.001	0.720
KD-5	-0.001	0.718
KD-5	-0.002	1.936
KD-5	-0.001	0.737
KD-5	-0.001	0.735
KD-5	-0.001	0.734
KD-5	-0.000	1.195
KD-6	0.000	1.231
KD-6	0.190	1.268
KD-6	-0.001	1.276
KD-6	-0.001	1.284
KD-6	-0.001	1.297
KD-6	-0.002	1.314
KD-6	-0.001	1.346
KD-6	-0.001	1.377
KD-6	-0.001	1.398

MIKE 11 SYSTEM

DC-2: Case 2-1

Location	Minimum m/sec	Maximum m/sec
KD-6	1.700	1.419
KD-6	-0.001	1.454
KD-6	-0.001	1.800
KD-7	0.000	0.845
KD-7	0.000	0.846
KD-7	0.000	0.847
KD-7	-0.001	0.837
KD-7	-0.002	0.827
KD-7	-0.003	0.812
KD-7	-0.004	0.797
KD-7	-0.005	0.790
KD-7	-0.006	0.784
KD-7	-0.007	0.777
KD-7	-0.008	0.769
KD-7	-0.009	0.759
KD-7	-0.009	0.749
KD-7	-0.010	0.741
KD-7	-0.010	0.732
KD-7	-0.011	0.720
KD-7	-0.012	0.708
KD-7	-0.012	0.695
KD-7	-0.012	0.683
KD-7	-0.012	0.648
KD-7	-0.004	0.650
KD-7	-0.004	0.703
KD-7	-0.005	0.693
KD-7	-0.005	0.685
KD-7	-0.005	0.677
KD-7	-0.005	0.669
KD-7	-0.005	0.661
KD-7	-0.005	0.652
KD-7	-0.005	0.642
KD-7	-0.005	0.640
KD-7	-0.005	0.651
KD-7	-0.000	0.723
KD-8	0.000	0.711
KD-8	0.000	0.679
KD-8	-0.001	0.649
KD-8	-0.002	0.633
KD-8	-0.003	0.619
KD-8	-0.003	0.605
KD-8	-0.003	0.590
KD-8	-0.004	0.569
KD-8	-0.004	0.549
KD-8	-0.004	0.529
KD-8	-0.004	0.510
KD-8	-0.004	0.596
KD-9	0.000	0.597
KD-9	0.000	0.598
KD-9	0.000	0.587
KD-9	-0.001	0.575
KD-9	-0.002	0.566
KD-9	-0.003	0.561
KD-9	-0.003	0.558

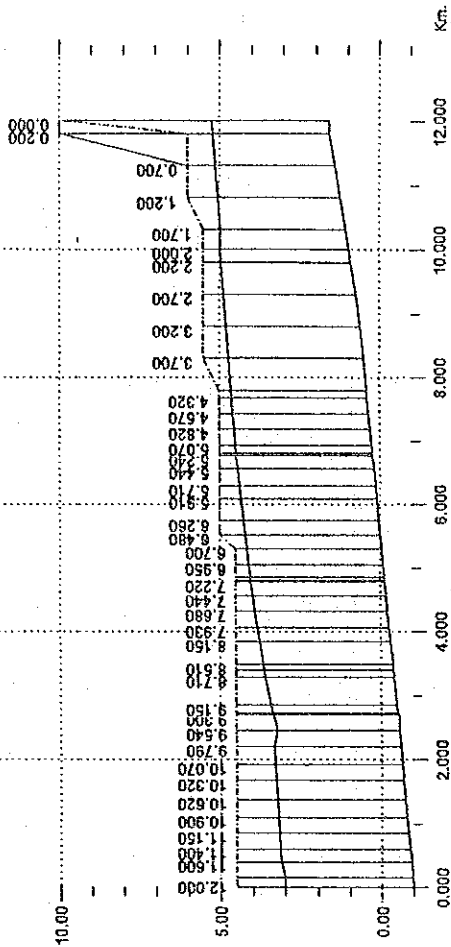
MIKE 11 SYSTEM

DC-2: Case 2-1

Location	Minimum m/sec	Maximum m/sec
D-9	1.000	0.596
D-10	0.000	0.883
D-10	0.050	0.880
D-10	0.100	0.878
D-10	0.250	0.828
D-10	0.500	0.790
D-10	0.850	0.754
D-10	1.100	0.718
D-10	1.350	0.682
D-10	1.600	0.655
D-10	1.850	0.589
D-10	2.100	0.729
D-10	2.350	0.940
D-10	2.600	0.920
D-10	2.850	0.887
D-10	3.100	0.854
D-10	3.350	0.818
D-10	3.600	0.785
D-10	3.825	0.753
D-10	4.050	0.722
D-10	4.075	0.718
D-10	4.100	0.718

DC-2: Case 2-1

meter

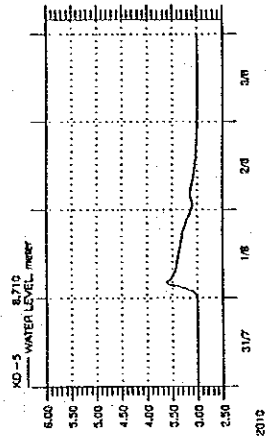
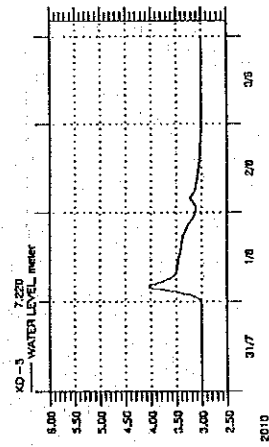


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V: 1/50

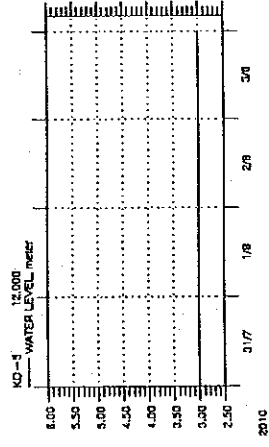
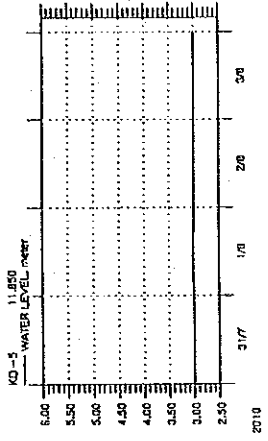
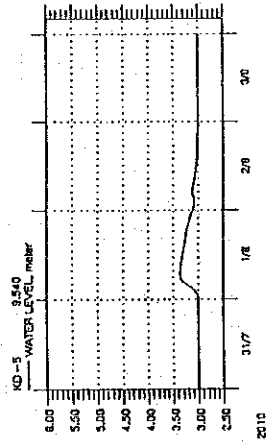
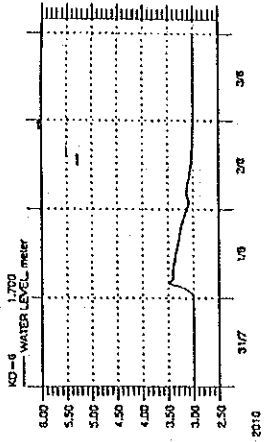
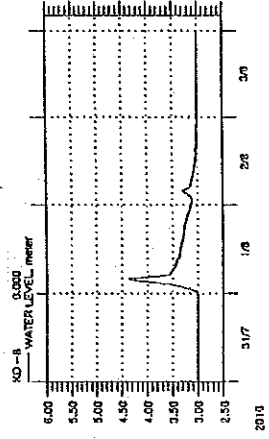
Max. (m/s)

PARAMETER : WATER LEVEL, DATA FILE : RN2 - 1.RDF RESULT FILE : RES2 - 1.RRF	1 - AUG - 2010, 04:00 (23 hrs) BOUNDARY FILE : BN - 1.BSF CALCULATED : 3 - FEB - 1992, 10:52	MIKE 11 Dwg No.
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DC-2: Case 2-1



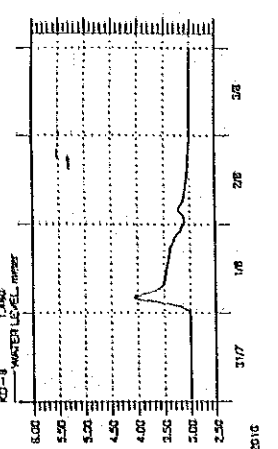
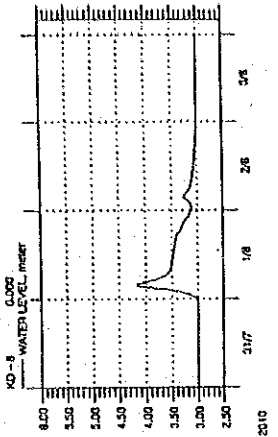
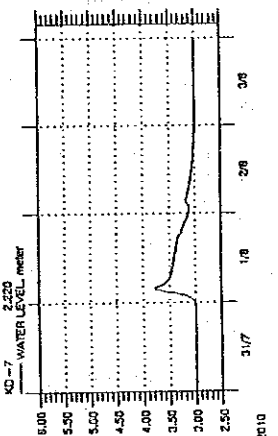
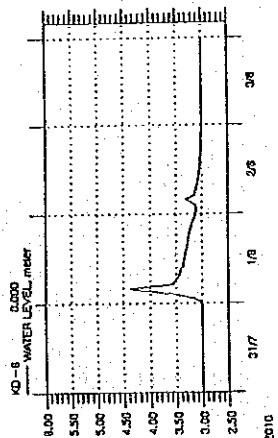
DC-2: Case 2-1



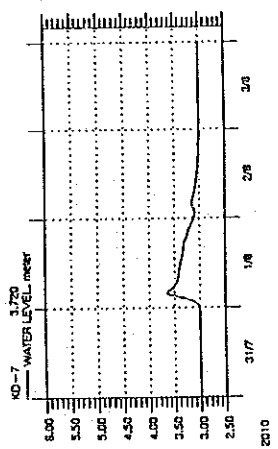
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		<small>Drawn by:</small>	
DATA FILE : RN2 - 1.RDF	BOUNDARY FILE : BN - 1.BSF		
RESULT FILE : RES2 - 1.RRF	CALCULATED : 3 - FEB - 1992, 10:52		

		MIKE 11	
		<small>Drawn by:</small>	
DATA FILE : RN2 - 1.RDF	BOUNDARY FILE : BN - 1.BSF		
RESULT FILE : RES2 - 1.RRF	CALCULATED : 3 - FEB - 1992, 10:52		

DC-2: Case 2-1



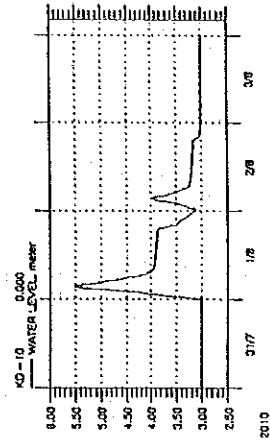
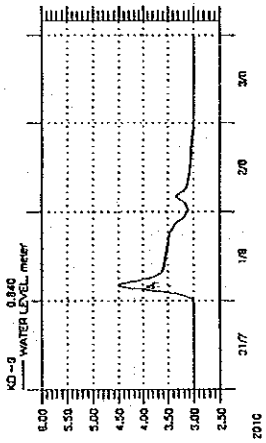
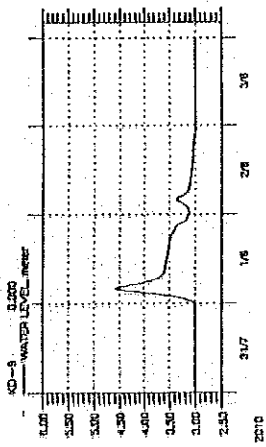
DC-2: Case 2-1



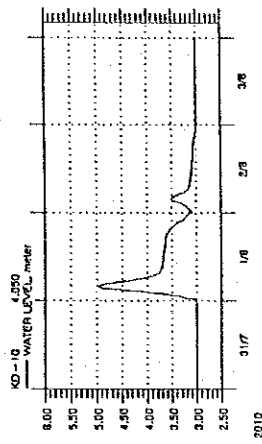
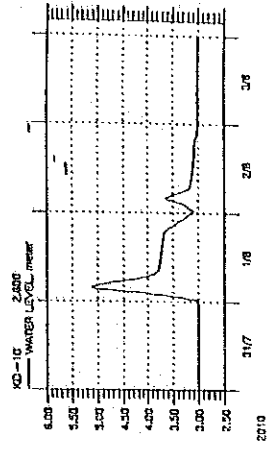
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RESULT FILE : RES2-1.RRF	CALCULATED : 3-FEB-1992, 10:52
	<small>Comp. No.:</small>

	MIKE 11
DATA FILE : RN2-1.RDF	BOUNDARY FILE : BN-1.BSF
RESULT FILE : RES2-1.RRF	CALCULATED : 3-FEB-1992, 10:52
	<small>Comp. No.:</small>

DC-2: Case 2-1



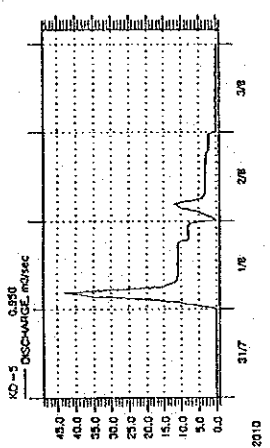
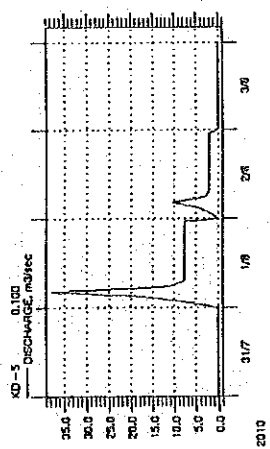
DC-2: Case 2-1



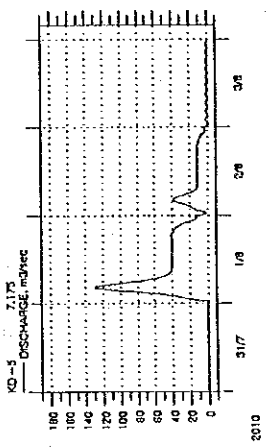
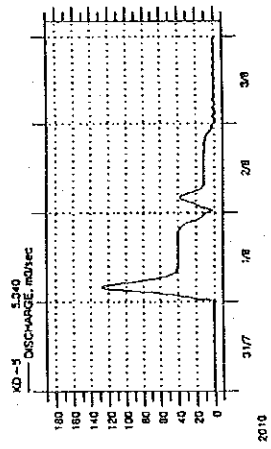
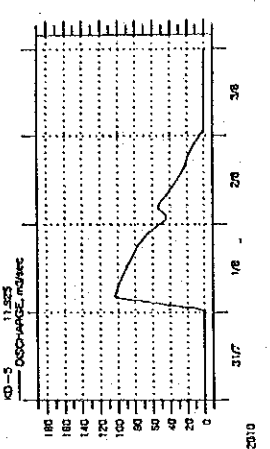
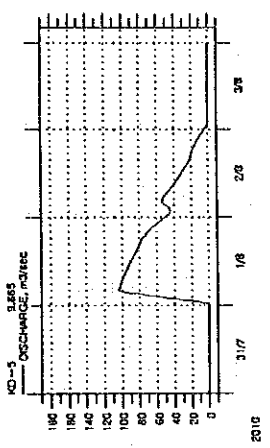
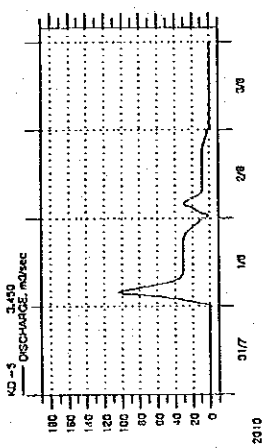
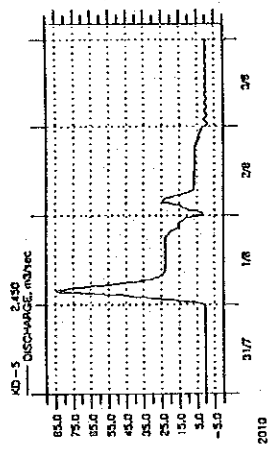
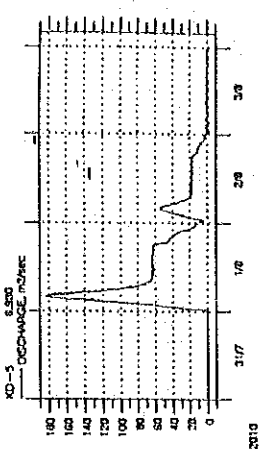
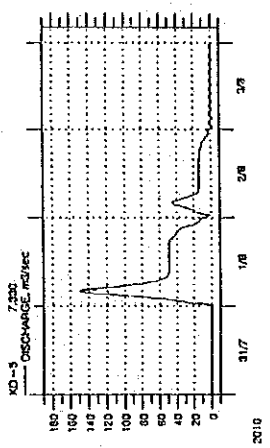
	MIKE 11
DATA FILE : RN2-1.RDF	BOUNDARY FILE : BN-1.BSF
RESULT FILE : RES2-1.RRF	CALCULATED : 3-FEB-1992, 10:52
	Dwg No.:

	MIKE 11
DATA FILE : RN2-1.RDF	BOUNDARY FILE : BN-1.BSF
RESULT FILE : RES2-1.RRF	CALCULATED : 3-FEB-1992, 10:52
	Dwg No.:

DC-2: Case 2-1



DC-2: Case 2-1



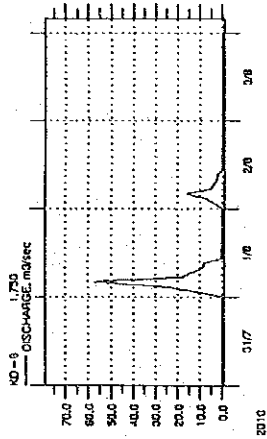
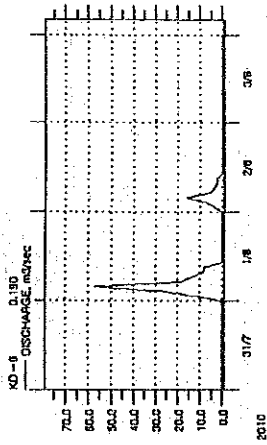
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RESULT FILE : RES2 - 1.RRF

BOUNDARY FILE : BN - 1.BSF
CALCULATED : 3 - FEB - 1992, 10:52

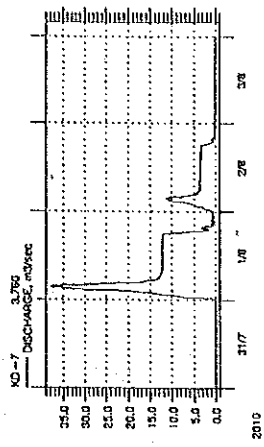
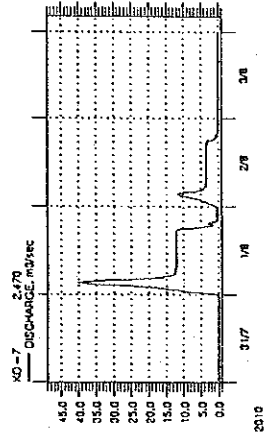
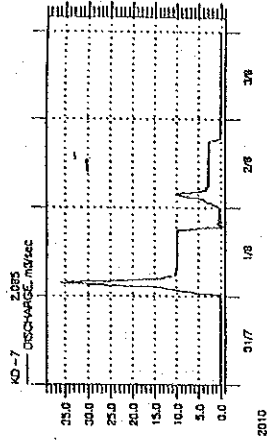
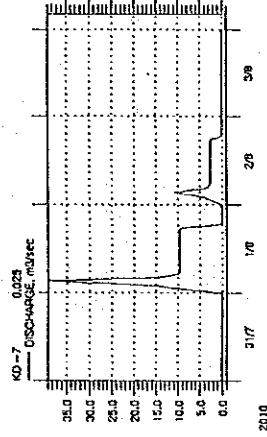
MIKE 11

Comp. No.:

DC-2: Case 2-1



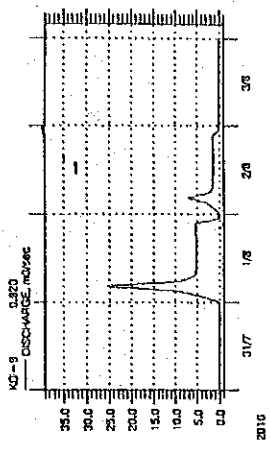
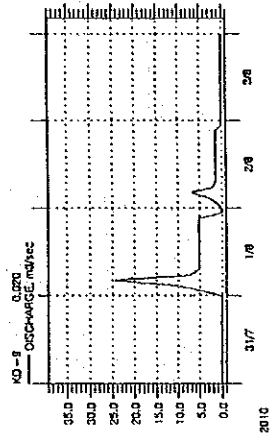
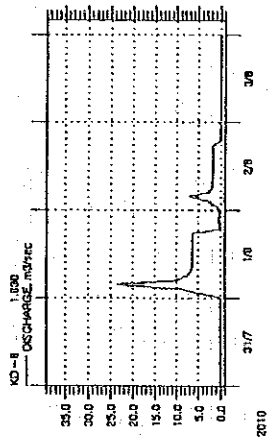
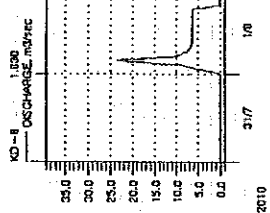
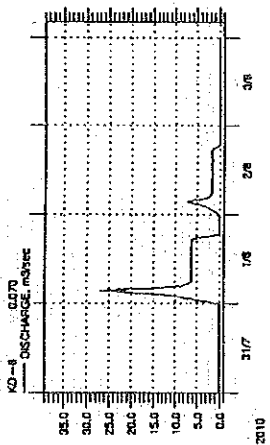
DC-2: Case 2-1



		MIKE 11
		<small>Output</small>
DATA FILE : RN2-1.RDF	BOUNDARY FILE : BN-1.BSF	
RESULT FILE : RES2-1.RRF	CALCULATED : 3-FEB-1992, 10:52	

		MIKE 11
		<small>Output</small>
DATA FILE : RN2-1.RDF	BOUNDARY FILE : BN-1.BSF	
RESULT FILE : RES2-1.RRF	CALCULATED : 3-FEB-1992, 10:52	

DC-2: Case 2-1

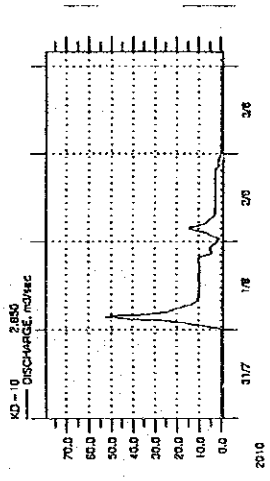
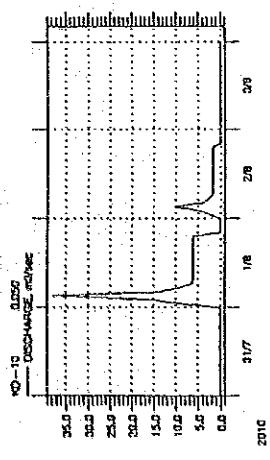


DC-2: Case 2-1

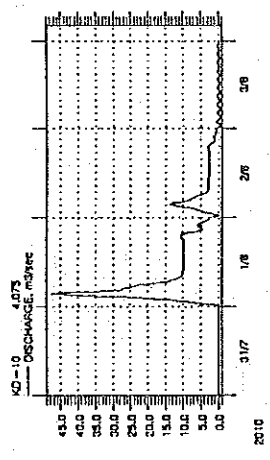
DATA FILE : RN2-1.RDF RESULT FILE : RES2-1.RRF	BOUNDARY FILE : BN-1.BSF CALCULATED : 3-FEB-1992, 10:52
MIKE 11	
Dwg. no.:	

DATA FILE : RN2-1.RDF RESULT FILE : RES2-1.RRF	BOUNDARY FILE : BN-1.BSF CALCULATED : 3-FEB-1992, 10:52
MIKE 11	
Dwg. no.:	

DC-2: Case 2-1



DC-2: Case 2-2 With Retarding Pond and Well Pump Station



```

RIVER MODEL          MAIN MENU          Version 2.10
-----
X  A.  River / Catchment
X  B.  Boundaries / Time Series
X  C.  Transport dispersion and cohesive sediment
X  D.  Water quality
X  E.  Non cohesive sediment

X  G.  Supplementary data
X  H.  Calculation
X  J.  Presentation of results

Enter choice: (,,A-J)
X : Installed Modules      Data area .....: 437 KB
Current directory : C:\PROJECTS\DC-2  Free disk space .....: 18444 KB

<Esc> Return to Opening Menu      <F1> Help Menu
  
```

		MIKE 11
		Output
DATA FILE : RN2-1.RDF	BOUNDARY FILE : BN-1.BSF	
RESULT FILE : RES2-1.RRF	CALCULATED : 3-FEB-1992, 10:52	

DC-2: Case 2-2

A RIVER SETUP DATA

Enter file name : RN2-2.RDF

- 1. LOAD
- 2. SAVE
- 3. DELETE
- 4. PRESENT
- 5. EDIT
- 6. DATA BASE WITH CROSS SECTIONS
- 7. DIRECTORY

- System File --> Edit File
- Edit File --> System File
- Edit File / System File
- System File

Enter no. (1-7) :

<Esc> return to MIKE 11 Main Menu

<F1> Help Menu

Edit File is empty

DC-2: Case 2-2

J RESULT PRINT / PLOT MIKE 11

Enter file name: RES2-2.RRF

- 1. SELECT
- 2. SELECT
- 3. DELETE
- 4. PRINT
- 5. TIME SERIES
- 6. PROFILE
- 7. DIRECTORY

- result file
- model.....: HD-model
- result file
- summary
- print / plot
- plot

Enter option (1-7) :

<Esc> Return to Main Menu

<F1> Help Menu

MENU A.5 RIVER SYSTEM GENERAL VIEW MIKE 11

	number
1 RIVER BRANCHES	6
2 RIVER CROSS-SECTIONS	0
3 BROADCRESTED WEIRS	0
4 SPECIAL WEIRS	0
5 CULVERTS	1
6 $Q = Q(t)$	0
7 $Q = f(Q, h \text{ upstream})$	0
8 Q-h BOUNDARIES	0
9	0
0 CATCHMENTS	0
T TEXT	0
D DATA BASE NAME (cross-sections)	CASE-2
A ADD ON MODULES	

Select : <Enter> or (0-9, O, T, D, A)

<Esc> return to Menu A

<F1> Help Menu

DC-2: Case 2-2
 GRID POINT RESULT SUMMARY

DC-2 : Case 2-2

WATER LEVEL,	Location	Minimum meter	Maximum meter	Location	Minimum meter	Maximum meter
KD-5	0.000	2.99	5.25	KD-6	0.730	4.01
KD-5	0.200	2.99	5.21	KD-6	1.080	3.83
KD-5	0.700	2.99	5.13	KD-6	1.480	3.59
KD-5	1.200	2.99	5.04	KD-6	1.700	3.54
KD-5	1.700	2.99	4.97	KD-6	1.800	3.54
KD-5	2.000	2.99	4.95	KD-7	0.000	4.09
KD-5	2.000	2.99	4.92	KD-7	0.050	4.08
KD-5	2.200	2.99	4.85	KD-7	0.260	4.03
KD-5	2.700	2.99	4.78	KD-7	0.540	3.98
KD-5	3.200	2.99	4.62	KD-7	0.690	3.96
KD-5	4.69	2.99	4.60	KD-7	0.940	3.91
KD-5	4.320	2.99	4.56	KD-7	1.220	3.87
KD-5	4.820	2.99	4.52	KD-7	1.420	3.84
KD-5	5.070	2.99	4.49	KD-7	1.720	3.80
KD-5	5.200	2.99	4.47	KD-7	1.950	3.77
KD-5	5.200	2.99	4.47	KD-7	2.220	3.74
KD-5	5.240	2.99	4.46	KD-7	2.99	3.68
KD-5	5.440	2.99	4.42	KD-7	2.99	3.65
KD-5	5.710	2.99	4.36	KD-7	2.99	3.63
KD-5	5.910	2.99	4.31	KD-7	2.99	3.60
KD-5	6.260	2.99	4.24	KD-7	2.99	3.60
KD-5	6.480	2.99	4.19	KD-7	2.99	3.59
KD-5	6.700	2.99	4.14	KD-8	0.000	4.14
KD-5	6.950	2.99	4.08	KD-8	0.140	4.13
KD-5	7.150	2.99	4.03	KD-8	0.590	4.09
KD-5	7.200	2.99	4.02	KD-8	0.855	4.07
KD-5	7.200	2.99	4.02	KD-8	1.120	4.06
KD-5	7.440	2.99	3.95	KD-8	1.460	4.04
KD-5	7.680	2.99	3.88	KD-8	1.800	4.02
KD-5	7.930	2.99	3.80	KD-9	0.000	4.58
KD-5	8.150	2.99	3.73	KD-9	0.040	4.57
KD-5	8.510	2.99	3.62	KD-9	0.840	4.49
KD-5	8.600	2.99	3.59	KD-9	1.000	4.47
KD-5	8.600	2.99	3.56	KD-10	0.000	5.53
KD-5	8.710	2.99	3.56	KD-10	0.100	5.51
KD-5	9.150	2.99	3.55	KD-10	0.600	5.43
KD-5	9.270	3.00	3.54	KD-10	1.100	5.36
KD-5	9.300	3.00	3.54	KD-10	1.600	5.30
KD-5	9.300	3.00	3.54	KD-10	2.100	5.24
KD-5	9.540	3.00	3.54	KD-10	2.99	5.13
KD-5	9.790	2.99	3.53	KD-10	2.99	5.05
KD-5	10.070	2.97	3.52	KD-10	2.99	5.00
KD-5	10.320	2.96	3.52	KD-10	2.99	4.96
KD-5	10.620	2.94	3.51	KD-10	2.99	4.95
KD-5	10.900	2.93	3.50			
KD-5	11.150	2.91	3.49			
KD-5	11.400	2.90	3.49			
KD-5	11.600	2.89	3.48			
KD-5	11.850	6.15	6.15			
KD-5	12.000	6.15	6.15			
KD-6	0.000	2.98	4.35			
KD-6	0.380	2.98	4.18			

DISCHARGE,

DC-2 : Case 2-2

Location	Minimum m3/sec	Maximum m3/sec
KD-5	0.100	37.698
KD-5	0.450	37.673
KD-5	0.950	42.949
KD-5	1.450	44.044
KD-5	1.850	44.866
KD-5	2.100	85.383
KD-5	2.450	84.570
KD-5	2.950	83.500
KD-5	3.450	104.887
KD-5	3.950	102.872
KD-5	4.260	101.746
KD-5	4.445	101.310
KD-5	4.695	100.707
KD-5	4.945	100.067

KD-5	5.135	99.759
KD-5	5.220	129.075
KD-5	5.340	128.970
KD-5	5.575	129.050
KD-5	5.810	129.185
KD-5	6.085	129.340
KD-5	6.370	129.459
KD-5	6.590	129.564
KD-5	6.825	129.628
KD-5	7.050	129.698
KD-5	7.175	129.748
KD-5	7.210	147.765
KD-5	7.330	150.664
KD-5	7.560	150.740
KD-5	7.805	150.818
KD-5	8.040	150.879
KD-5	8.330	150.900
KD-5	8.555	150.904
KD-5	8.655	183.564
KD-5	8.930	183.647
KD-5	9.210	183.775
KD-5	9.285	183.800
KD-5	9.420	288.362
KD-5	9.665	60.753
KD-5	9.930	60.028
KD-5	10.195	59.358
KD-5	10.470	58.916
KD-5	10.760	58.193
KD-5	11.025	57.466
KD-5	11.275	56.655
KD-5	11.500	55.731
KD-5	11.800	54.600
KD-5	11.925	54.810
KD-6	0.190	57.148
KD-6	0.555	56.342
KD-6	0.905	57.045
KD-6	1.280	57.062
KD-6	1.590	57.082
KD-6	1.750	57.085
KD-7	0.025	38.749
KD-7	0.155	38.453

DC-2 : Case 2-2

Location	Minimum m3/sec	Maximum m3/sec
KD-7	0.400	37.651
KD-7	0.615	37.250
KD-7	0.815	36.669
KD-7	1.080	36.369
KD-7	1.320	36.301
KD-7	1.575	36.117
KD-7	1.835	35.904
KD-7	2.085	40.472
KD-7	2.470	39.877
KD-7	2.878	39.322
KD-7	3.193	38.616
KD-7	3.535	38.156
KD-7	3.760	26.977
KD-8	0.070	26.152
KD-8	0.365	25.161
KD-8	0.722	24.467
KD-8	0.988	24.131
KD-8	1.290	23.583
KD-8	1.630	24.463
KD-9	0.020	24.656
KD-9	0.290	25.065
KD-9	0.690	25.253
KD-9	0.920	37.702
KD-10	0.350	26.017
KD-10	0.850	34.545
KD-10	1.350	33.242
KD-10	1.850	32.054
KD-10	2.350	54.650
KD-10	2.850	52.432
KD-10	3.350	50.446
KD-10	3.825	48.749
KD-10	4.075	47.810

DC-2: Case 2-2

DC-2: Case 2-2
GRID POINT RESULT SUMMARY

VELOCITY,	Location	Minimum m/sec	Maximum m/sec	Location	Minimum m/sec	Maximum m/sec
KD-5	0.000	0.000	0.746	7.220	-0.012	1.111
KD-5	0.100	-0.000	0.757	7.330	-0.012	1.157
KD-5	0.200	-0.001	0.766	7.440	-0.012	1.162
KD-5	0.450	-0.004	0.751	7.560	-0.012	1.169
KD-5	0.700	-0.005	0.782	7.680	-0.012	1.175
KD-5	0.950	-0.007	0.827	7.805	-0.012	1.181
KD-5	1.200	-0.008	0.824	7.930	-0.012	1.187
KD-5	1.450	-0.009	0.817	8.040	-0.012	1.193
KD-5	1.700	-0.009	0.812	8.150	-0.012	1.199
KD-5	1.850	-0.007	0.670	8.330	-0.012	1.210
KD-5	2.000	-0.006	0.587	8.510	-0.012	1.221
KD-5	2.000	-0.012	1.044	8.555	-0.012	1.184
KD-5	2.100	-0.011	0.959	8.600	-0.011	1.156
KD-5	2.200	-0.010	0.876	8.600	-0.010	1.379
KD-5	2.450	-0.010	0.857	8.655	-0.010	1.343
KD-5	2.700	-0.010	0.839	8.710	-0.010	1.300
KD-5	2.950	-0.009	0.769	8.930	-0.010	1.320
KD-5	3.200	-0.008	0.803	8.930	-0.010	1.341
KD-5	3.450	-0.008	0.907	9.150	-0.009	1.341
KD-5	3.700	-0.008	0.899	9.210	-0.009	1.344
KD-5	3.950	-0.009	0.888	9.270	-0.009	1.347
KD-5	4.200	-0.009	0.876	9.300	-0.009	1.351
KD-5	4.260	-0.009	0.873	9.300	-0.009	1.390
KD-5	4.320	-0.009	0.871	9.300	-0.010	1.847
KD-5	4.445	-0.009	0.865	9.420	-0.010	2.152
KD-5	4.570	-0.009	0.860	9.540	-0.030	1.333
KD-5	4.695	-0.009	0.856	9.665	-0.040	0.460
KD-5	4.820	-0.010	0.847	9.665	-0.039	0.455
KD-5	4.945	-0.010	0.842	9.790	-0.037	0.449
KD-5	5.070	-0.010	0.818	10.070	-0.035	0.449
KD-5	5.135	-0.009	0.834	10.195	-0.033	0.446
KD-5	5.200	-0.009	1.020	10.320	-0.031	0.443
KD-5	5.200	-0.010	1.021	10.470	-0.030	0.438
KD-5	5.220	-0.009	1.013	10.620	-0.027	0.432
KD-5	5.240	-0.010	1.013	10.760	-0.024	0.428
KD-5	5.440	-0.010	1.014	10.900	-0.021	0.425
KD-5	5.575	-0.010	1.015	11.025	-0.018	0.422
KD-5	5.710	-0.010	1.016	11.150	-0.015	0.419
KD-5	5.810	-0.010	1.019	11.275	-0.013	0.416
KD-5	5.910	-0.011	1.022	11.400	-0.010	0.413
KD-5	6.085	-0.011	1.024	11.500	-0.007	0.410
KD-5	6.260	-0.011	1.027	11.600	-0.005	0.406
KD-5	6.370	-0.011	1.029	11.800	0.000	0.256
KD-5	6.480	-0.011	1.032	11.850	0.000	0.187
KD-5	6.590	-0.011	1.034	11.925	-0.000	0.187
KD-5	6.700	-0.011	1.037	12.000	-0.000	0.186
KD-5	6.825	-0.012	1.041	0.000	0.000	1.202
KD-5	6.950	-0.012	1.046	0.190	-0.004	1.238
KD-5	7.050	-0.012	1.049	0.380	-0.008	1.277
KD-5	7.150	-0.012	1.051	0.555	-0.011	1.286
KD-5	7.175	-0.012	1.033	0.730	-0.014	1.295
KD-5	7.200	-0.012	1.016	0.905	-0.016	1.309
KD-5	7.200	-0.011	1.145	1.080	-0.018	1.328
KD-5	7.210	-0.012	1.137	1.280	-0.019	1.364
KD-5				1.480	-0.020	1.399
KD-5				1.590	-0.020	1.423

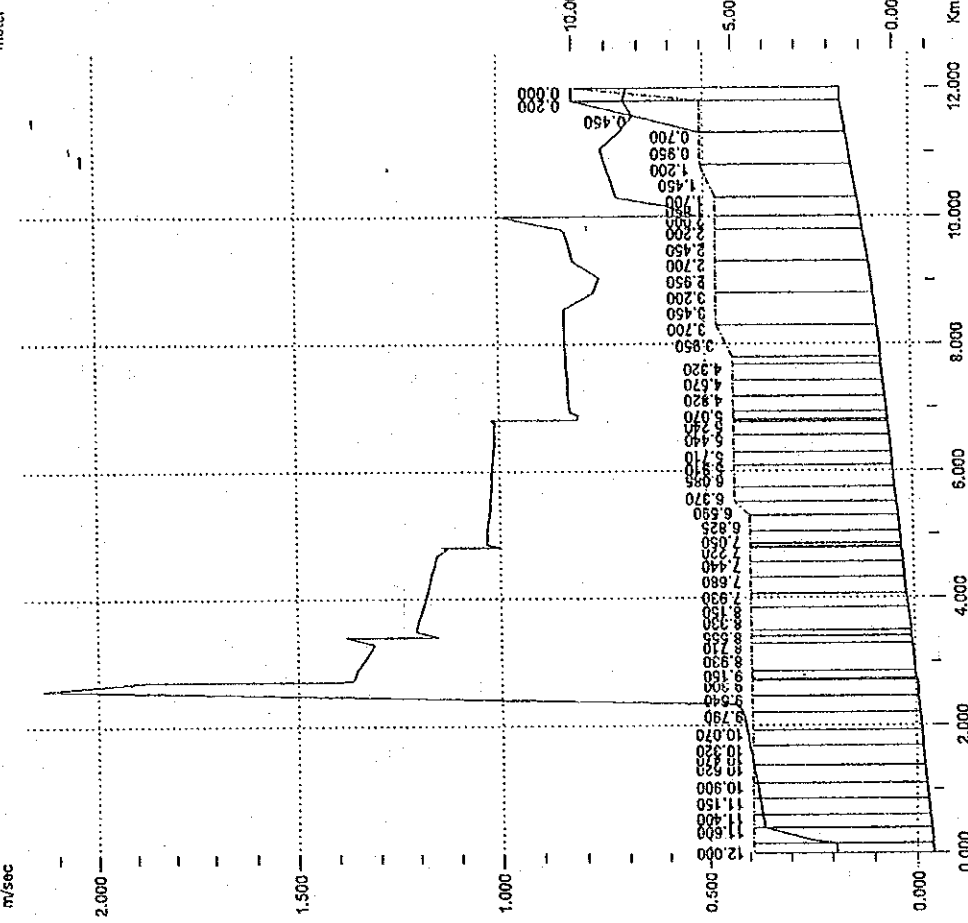
MIKE 11 SYSTEM

MIKE 11 SYSTEM

DC-2: Case 2-2

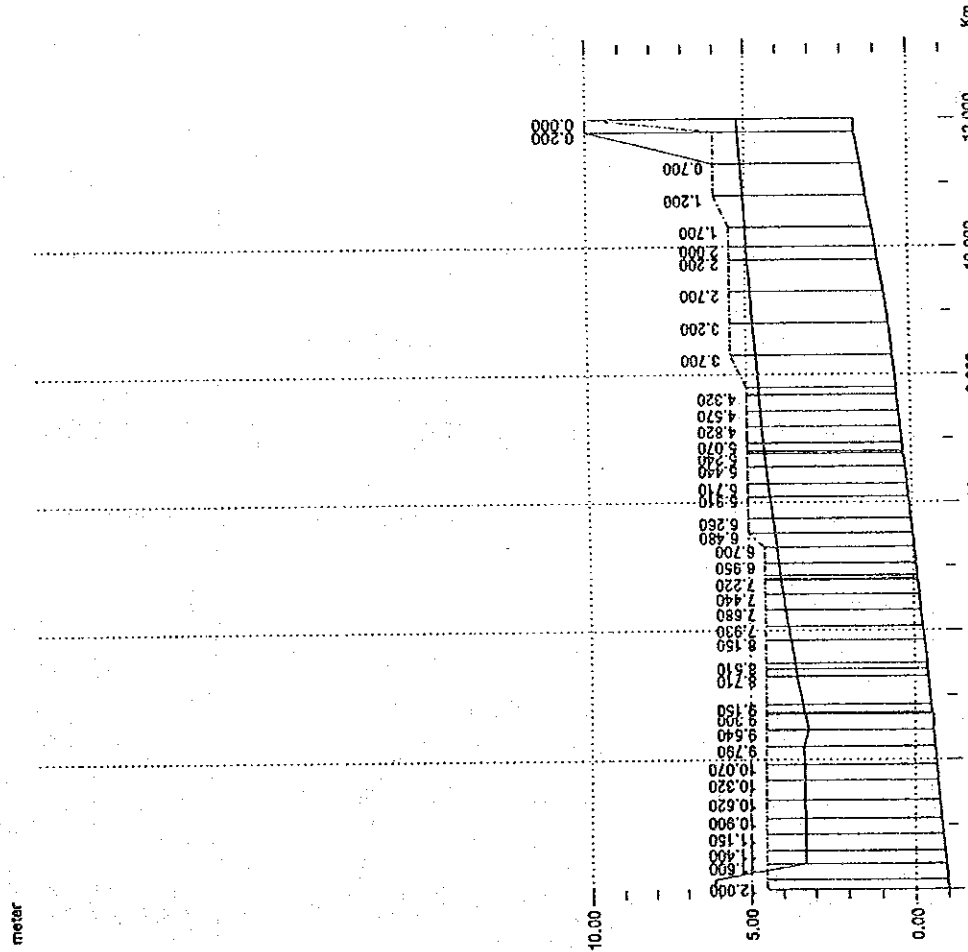
Location	Minimum m/sec	Maximum m/sec	Location	Minimum m/sec	Maximum m/sec
KD-6	1.700	1.448	KD-9	1.000	0.599
KD-6	1.750	1.486	KD-10	0.000	0.884
KD-6	1.800	1.678	KD-10	0.000	0.881
KD-7	0.000	0.851	KD-10	-0.001	0.879
KD-7	0.025	0.852	KD-10	-0.006	0.829
KD-7	0.050	0.853	KD-10	-0.010	0.791
KD-7	0.125	0.843	KD-10	-0.013	0.755
KD-7	0.260	0.833	KD-10	-0.015	0.719
KD-7	0.400	0.818	KD-10	-0.017	0.683
KD-7	0.540	0.804	KD-10	-0.017	0.656
KD-7	0.615	0.796	KD-10	-0.015	0.590
KD-7	0.690	0.791	KD-10	-0.013	0.710
KD-7	0.815	0.784	KD-10	-0.013	0.942
KD-7	0.940	0.776	KD-10	-0.012	0.922
KD-7	1.080	0.767	KD-10	-0.013	0.890
KD-7	1.220	0.757	KD-10	-0.013	0.856
KD-7	1.320	0.749	KD-10	-0.013	0.821
KD-7	1.420	0.741	KD-10	-0.013	0.788
KD-7	1.570	0.728	KD-10	-0.013	0.756
KD-7	1.720	0.716	KD-10	-0.013	0.725
KD-7	1.835	0.703	KD-10	-0.013	0.721
KD-7	1.950	0.691	KD-10	-0.013	0.721
KD-7	2.085	0.656	KD-10	-0.013	0.721
KD-7	2.220	0.657			
KD-7	2.470	0.712			
KD-7	2.720	0.702			
KD-7	2.878	0.695			
KD-7	3.035	0.687			
KD-7	3.193	0.679			
KD-7	3.350	0.671			
KD-7	3.535	0.662			
KD-7	3.720	0.653			
KD-7	3.760	0.651			
KD-7	3.800	0.662			
KD-8	0.000	0.742			
KD-8	0.070	0.729			
KD-8	0.140	0.718			
KD-8	0.365	0.685			
KD-8	0.590	0.656			
KD-8	0.723	0.640			
KD-8	0.855	0.626			
KD-8	0.988	0.612			
KD-8	1.120	0.597			
KD-8	1.290	0.576			
KD-8	1.460	0.555			
KD-8	1.630	0.535			
KD-8	1.800	0.516			
KD-9	0.000	0.600			
KD-9	0.020	0.601			
KD-9	0.040	0.602			
KD-9	0.290	0.590			
KD-9	0.540	0.578			
KD-9	0.690	0.571			
KD-9	0.840	0.565			
KD-9	0.920	0.562			

DC-2: Case 2-2



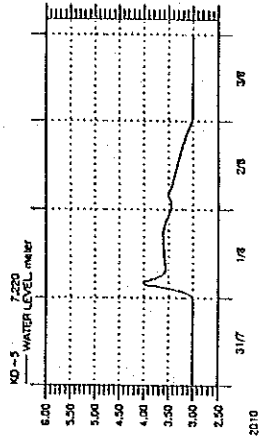
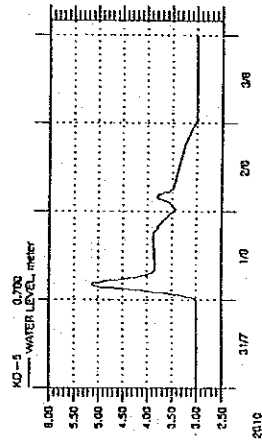
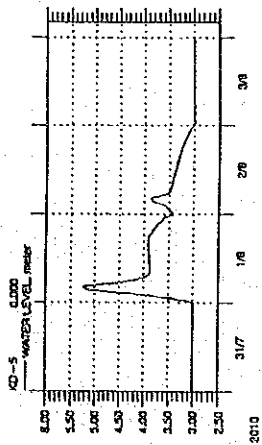
H: 1175000	K2-5	MIKE 11
V: 11150		0.000 m/s
PARAMETER : VELOCITY, DATA FILE : RN2-2.RDF RESULT FILE : RES2-2.VRF		
1-AUG-2010, 04:05 23.08 hrs BOUNDARY FILE : BN-2.BSF CALCULATED : 3-FEB-1992, 10:45		

DC-2: Case 2-2

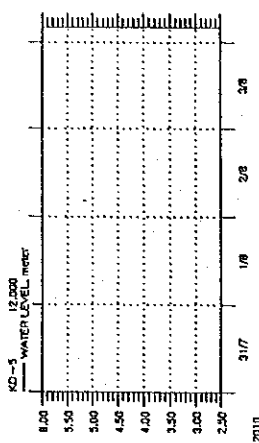
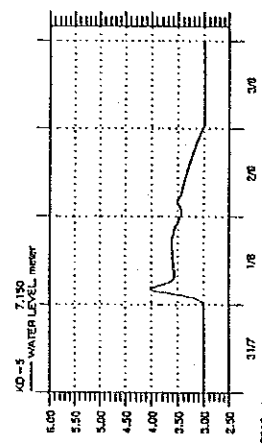
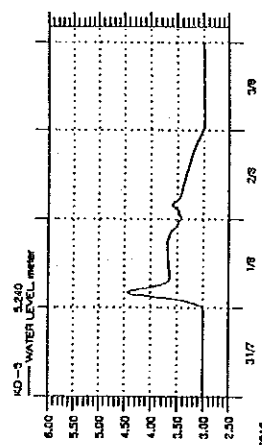
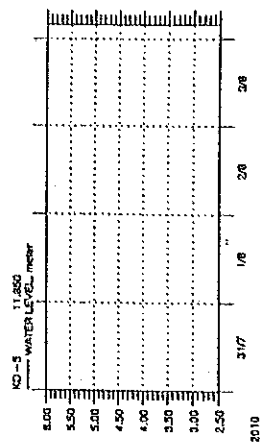
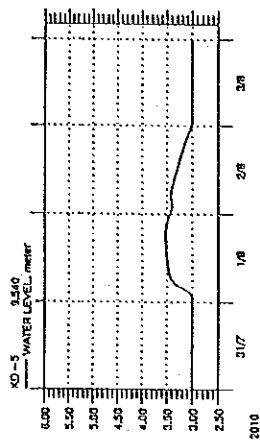
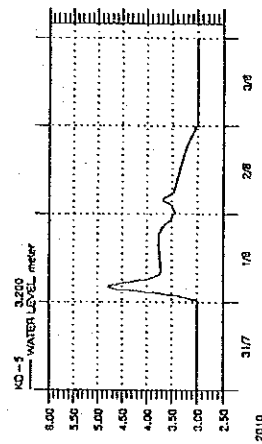
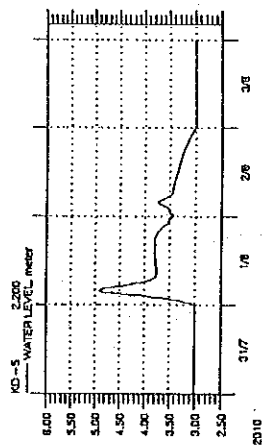
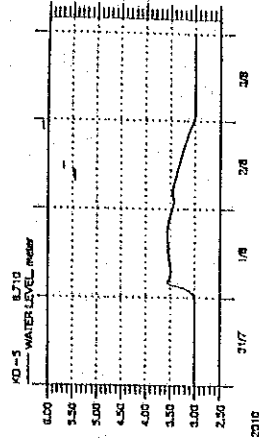


H: 1175000	K1-5 (Max. W.L.)	MIKE 11
V: 11150		0.000 m/s
PARAMETER : WATER LEVEL, DATA FILE : RN2-2.RDF RESULT FILE : RES2-2.RRF		
1-AUG-2010, 04:00 (23.0 hrs) BOUNDARY FILE : BN-2.BSF CALCULATED : 3-FEB-1992, 10:45		

DC-2: Case 2-2



DC-2: Case 2-2



DATA FILE : RN2-2.RDF

BOUNDARY FILE : BN-2.BSF

RESULT FILE : RES2-2.RRF

CALCULATED : 3-FEB-1992, 10:45

MIKE 11

Draw No.

MIKE 11

Draw No.

DATA FILE : RN2-2.RDF

BOUNDARY FILE : BN-2.BSF

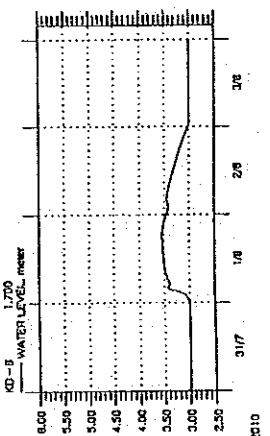
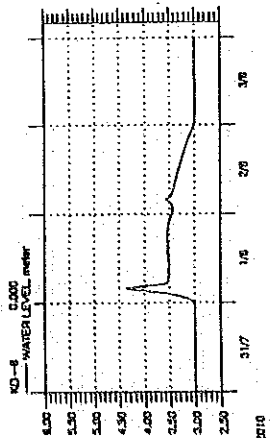
RESULT FILE : RES2-2.RRF

CALCULATED : 3-FEB-1992, 10:45

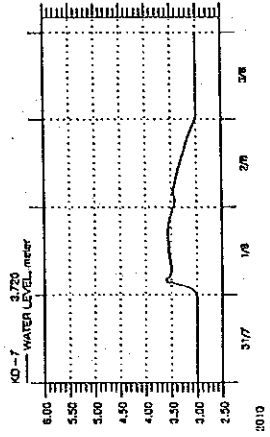
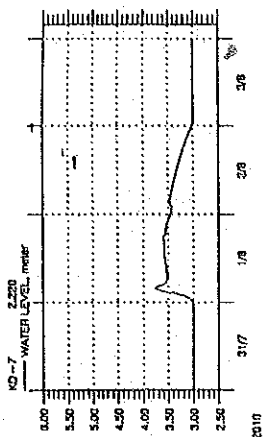
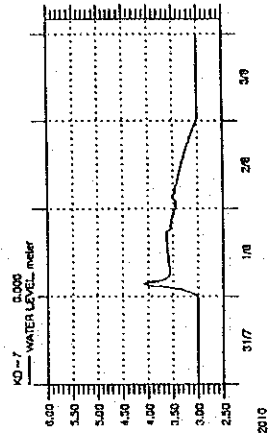
MIKE 11

Draw No.

DC-2: Case 2-2



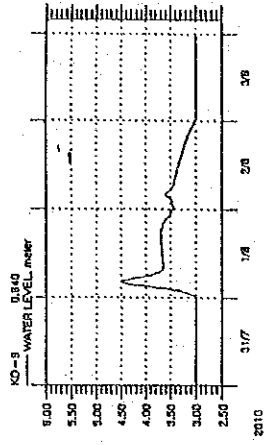
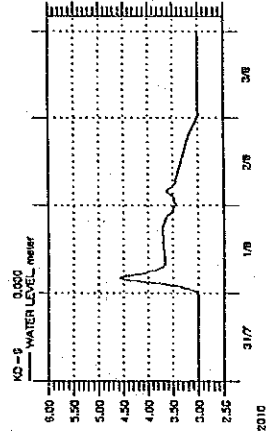
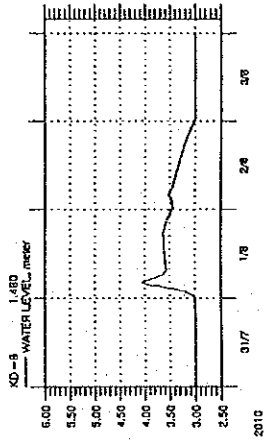
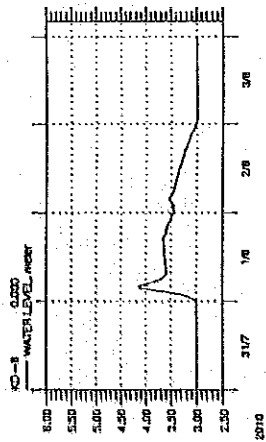
DC-2: Case 2-2



	MIKE 11
	<small>DWG no.:</small>
DATA FILE : RN2-2.RDF	BOUNDARY FILE : BN-2.BSF
RESULT FILE : RES2-2.RRF	CALCULATED : 3-FEB-1992, 10:45

	MIKE 11
	<small>DWG no.:</small>
DATA FILE : RN2-2.RDF	BOUNDARY FILE : BN-2.BSF
RESULT FILE : RES2-2.RRF	CALCULATED : 3-FEB-1992, 10:45

DC-2 : Case 2-2

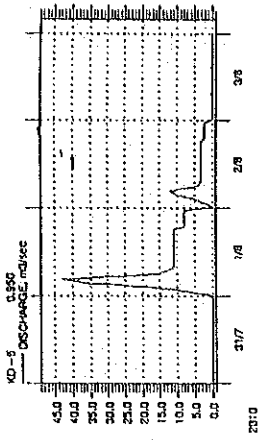
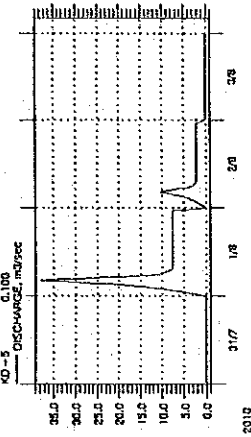
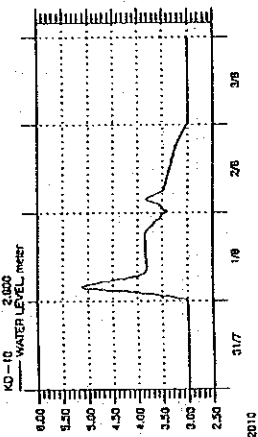
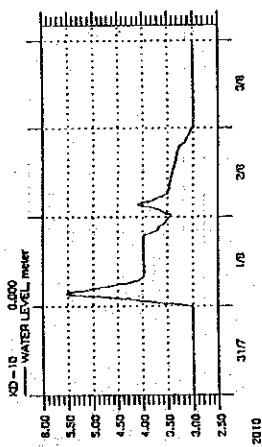


DC-2 : Case 2-2

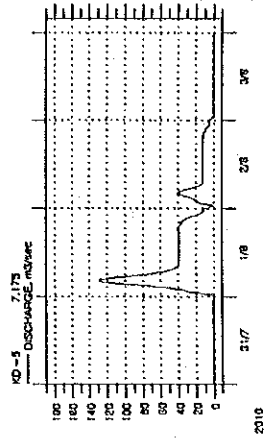
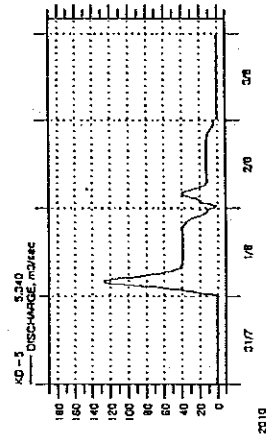
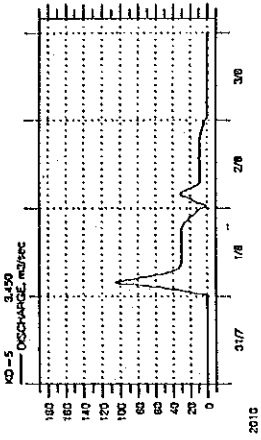
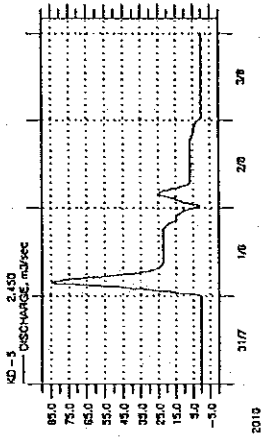
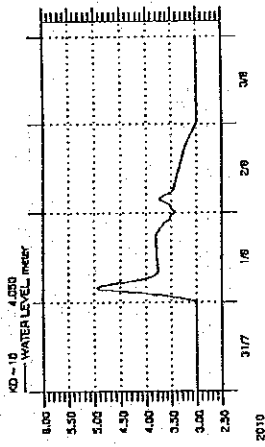
		MIKE 11	
		<small>Dwg no.:</small>	
DATA FILE : RN2-2.RDF	BOUNDARY FILE : BN-2.BSF	CALCULATED : 3-FEB-1992, 10:45	
RESULT FILE : RES2-2.RRF			

		MIKE 11	
		<small>Dwg no.:</small>	
DATA FILE : RN2-2.RDF	BOUNDARY FILE : BN-2.BSF	CALCULATED : 3-FEB-1992, 10:45	
RESULT FILE : RES2-2.RRF			

DC-2: Case 2-2



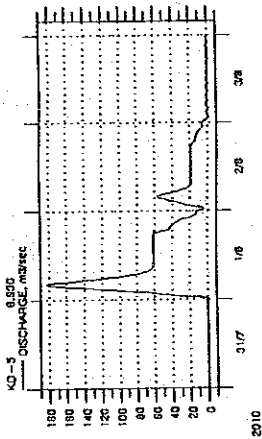
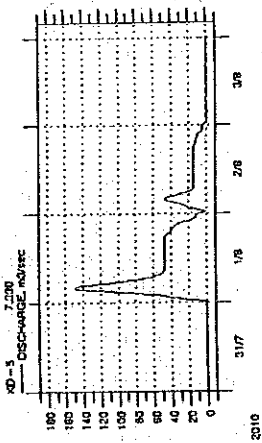
DC-2: Case 2-2



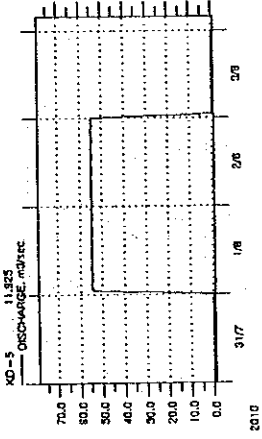
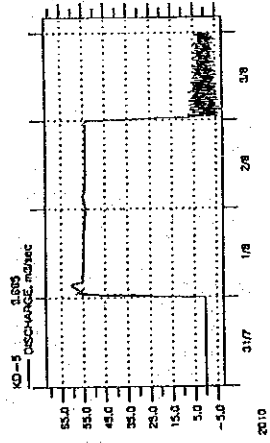
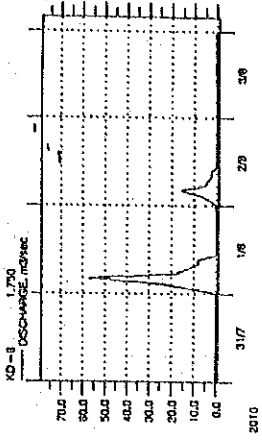
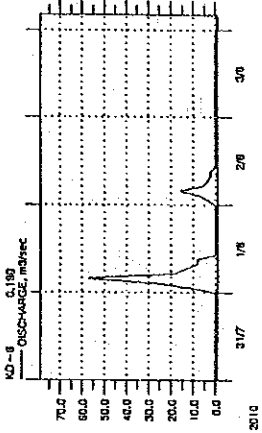
		MIKE 11
		Original:
DATA FILE : RN2-2.RDF	BOUNDARY FILE : BN-2.BSF	
RESULT FILE : RES2-2.RRF	CALCULATED : 3-FEB-1992, 10:45	

		MIKE 11
		Original:
DATA FILE : RN2-2.RDF	BOUNDARY FILE : BN-2.BSF	
RESULT FILE : RES2-2.RRF	CALCULATED : 3-FEB-1992, 10:45	

DC-2 : Case 2-2



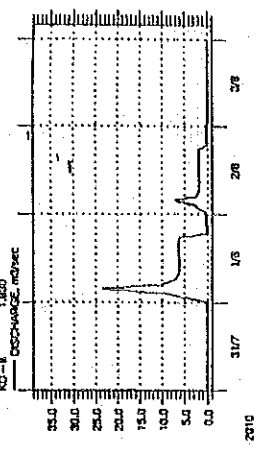
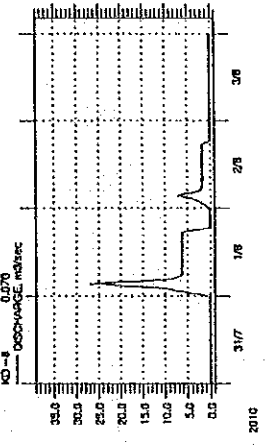
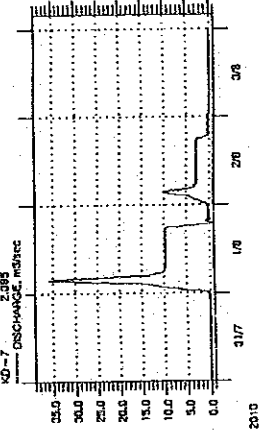
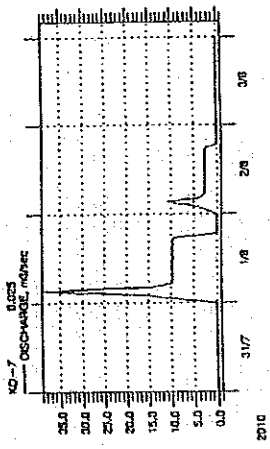
DC-2 : Case 2-2



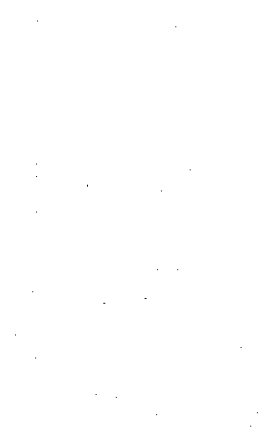
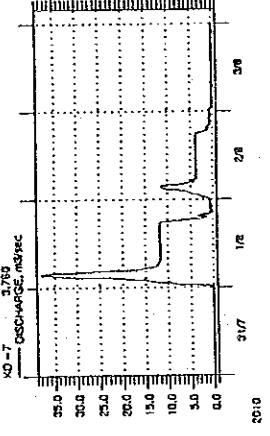
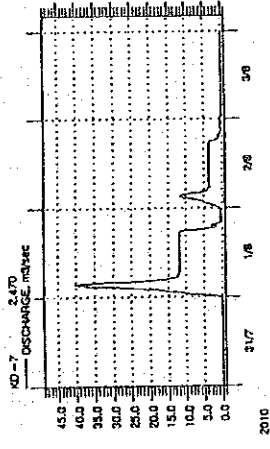
DATA FILE : RN2-2.RDF RESULT FILE : RES2-2.RRF	BOUNDARY FILE : BN-2.BSF CALCULATED : 3-FEB-1992, 10:45
MIKE 11	
	Dwg. no.: MIKE 11

DATA FILE : RN2-2.RDF RESULT FILE : RES2-2.RRF	BOUNDARY FILE : BN-2.BSF CALCULATED : 3-FEB-1992, 10:45
MIKE 11	
	Dwg. no.: MIKE 11

DC-2 : Case 2-2



DC-2 : Case 2-2



		MIKE 11
		<small>Output</small>
DATA FILE : RN2-2.RDF	BOUNDARY FILE : BN-2.BSF	
RESULT FILE : RES2-2.RRF	CALCULATED : 3-FEB-1992, 10:45	

		MIKE 11
		<small>Output</small>
DATA FILE : RN2-2.RDF	BOUNDARY FILE : BN-2.BSF	
RESULT FILE : RES2-2.RRF	CALCULATED : 3-FEB-1992, 10:45	

