

## **Interim Report**

M.P . Pollution Control Board executed the project entitled Biomapping of River Narmada. Project sponsored by Central Pollution Control Board, Delhi project tenure is two years w.e.f. May, 2007 monitoring work was started from 26th Oct. 2007 with identification of sampling sites in entire river stretch in M.P. total sampling sites 31 points selected sites were fixed for monitoring the river.

During monitoring work it was informed by the Local Administration to the Monitoring Team that cleaning activities at Narmada at Amarkantak region will be taken up in the near future, hence the monitoring team perform monitoring of river Narmada at Amarkantak region on 03.11.09 to 08.11.09 to observe whether cleaning activity affect the biota of river water or not. The monitoring result reveals that no change in the species collected during monitoring as compare to previous result. On enquiring it was disclosed that cleaning activities of river Narmada was not takenup so far. The monitoring results accouotated in table no. 1.1.0 to 1.1.12 and 2.1.a. Numeric representation of benthic families at different locations at Amarkantak is appeared as table no.2.15 on wards.

### **2.15 Numeric representation of benthic families at Ramghat, Amarkantak**

Sl. No.	Benthic Families	Number of Organisms			
		Nov., 07	April, 08	Oct., 08	Jan.,09
1.	Protoneuridae	34	03	-	15
2	Gomphidae	25	-	-	-
3	Mesovelidae	-	02	-	-
4	Libellulidae	9	17	-	11
5	Viviparidae	16	10	06	08
6	Potamidae	6		-	-
7	Nepidae	1	01	-	-
8	Ranatridae	-	01	02	-
9	Notonectidae	2	-	-	-
10	Belastomatidae	15	07	03	04
11	Hygrobidae	11	-	-	-
12	Dytiscidae	-	01	-	-
13	Gyrinidae	1	-	-	-
14	Dryopidae	-	01	-	-
15	Hydrophilidae	1	-	-	-
16	Baetidae	7	-	--	-
17	Lymnaeidae	5	09	05	10
18	Bithynidae	-	07	11	01
19	Planorbidae	12	09	17	06
20	Spheridae	-	03	-	-
21	Chironomidae	1	-	-	02
22	Thiaridae	-	-	-	01
23	Palaemonidae	-	-	-	03
24	Haliplidae	-	-	-	01

## 2.16 Numeric representation of benthic families at Graveyard, Amarkantak

Sl. No.	Benthic Families	Number of Organisms				
		Nov., 07	April, 08	Oct., 08	Jan.,09	Nov., 09
1.	Heptageniidae	-	01	-		
2.	Aphelocheridae	01	-	-		
3.	Protoneuridae	01	-	-	07	1
4.	Gomphidae	-	02	02	01	2
5.	Libellulidae	7	35	-		13
6.	Thiaridae	01	41	02	01	4
7.	Atydae	-	03	-		
8.	Palaemonidae	-	02	02	05	2
9.	Nereidae	-	02	-		
10.	Caenagriidae	-	04	-		
11.	Mesoveliidae	-	02	-		
12.	Gerridae	08	06	01	13	
13.	Nepidae	-	02	-		1
14.	Pleidae	-	02	-		
15.	Belastomatidae	-	02	-		
16.	Corixidae	-	08	-		2
17.	Dytiscidae	-	01	-		
18.	Lymnaeidae	-	03	-		6
19.	Hydropsychidae	09	-	01	09	
20.	Planorbidae	-	-	04	02	
21.	Spheridae	-	-	03	24	
22.	Hydrophilidae	-	-	01		
23.	Chironomidae	-	-	04	04	20
24.	Salifidae	-	-	01		
25.	Caenidae	-	-	04	01	
26.	Bithynidae				02	
27.	Sirphidae				01	
28.	Gyrinidae					4
29.	Corbiculidae					5

## 2.17 Numeric representation of benthic families at Kapil-van, Amarkantak

Sl. No.	Benthic Families	Number of Organisms			
		Nov., 07	April, 08	Oct., 08	Jan.,09
1.	Heptageniidae	01	01	22	21
2.	Leptophlebiidae	01	01	-	
3.	Protoneuridae	07	05	-	02
4.	Gomphidae	06	-	03	04
5.	Libellulidae	05	17	-	08
6.	Caenidae	13	07	-	02
7.	Baetidae	05	-	-	31
8.	Thiaridae	06	11	16	09
9.	Potamidae	01	-	-	
10.	Palaemonidae	09	-	-	01
11.	Corixidae	04	-	-	01
12.	Hydropsychidae	07	-	56	31
13.	Ecnomidae	03	-	-	
14.	Lymnaeidae	01	-	-	
15.	Chironomidae	05	-	-	21
16.	Gerridae	04	-	-	08
17.	Psephenidae	01	-	-	01
18.	Salifidae	01	-	01	
19.	Planorbidae	07	-	-	08
20.	Spheridae	06	-	-	01
21.	Perlidae	-	-	04	
22.	Syrphidae	-	-	03	
23.	Gyrinidae				31
24.	Haliplidae				01
25.	Hirudinidae				02

## 2.18 Numeric representation of benthic families at Kapil-dhara, Amarkantak

Sl. No.	Benthic Families	Number of Organisms			
		April, 08			April, 08
1.	Protoneuridae	02	1.	Protoneuridae	02
2.	Hydrometridae	06	2.	Hydrometridae	06
3.	Gyrinidae	10	3.	Gyrinidae	10
4.	Planorbidae	01	4.	Planorbidae	01
5.	Salifidae	01	5.	Salifidae	01
6.	Heptageniidae	-	6.	Heptageniidae	-
7.	Hydropsychidae	-	7.	Hydropsychidae	-
8.	Dytiscidae	-	8.	Dytiscidae	-
9.	Psephenidae larva	-	9.	Psephenidae larva	-
10.	Thiaridae	-	10.	Thiaridae	-
11.	Ranatridae		11.	Ranatridae	
12.	Gerridae		12.	Gerridae	
13.	Gomphidae		13.	Gomphidae	
14.	Baetidae		14.	Baetidae	
15.	Caenidae		15.	Caenidae	
16.	Syrphidae		16.	Syrphidae	
17.	Elminthidae		17.	Elminthidae	
18.	Corixidae		18.	Corixidae	

## 2.19 Numeric representation of benthic families at Raptapul Ghat, Mandla

Sl. No.	Benthic Families	Number of Organisms			
		Nov., 07	April, 08	Oct., 08	Jan.,09
1.	Heptageniidae	-	-	02	
2.	Perlidae	01	-	01	
3.	Goeridae	31	04	-	
4.	Philopotamidae	07	-	-	
5.	Atydae	15	-	-	04
6.	Palaemonidae	13	-	-	01
7.	Leptoceridae	-	39	01	
8.	Viviparidae	-	04	01	04
9.	Hydrophilidae	-	01	-	
10.	Hydropsychidae	-	24	38	48
11.	Salifidae	-	02	-	
12.	Caenidae	-	-	10	12
13.	Baetidae	-	-	08	
14.	Thiaridae	-	-	14	17
15.	Corbiculidae				02
16.	Pleidae				04
17.	Gerrixdae				05
18.	Libellulidae				05
19.	Gyrinidae				03
20.	Dytiscidae				04
21.	Haliplidae				02
22.	Protoneuridae				04
23.	Hydroptilidae				03
24.	Corixidae				03
25.	Chironomidae				08

## 2.20 Numeric representation of benthic families at Chiri, Mandla

Sl. No.	Benthic Families	Number of Organisms	
		April, 08	Jan.,09
1.	Viviparidae	6	05
2.	Thiaridae	10	
3.	Palaemonidae	1	
4.	Gyrinidae	11	30
5	Bithynidae		12
6	Planorbidae		03
7	Psephenidae		01
8	Caenidae		07
9	Corixidae		02
10	Hydropsychidae		02

## 2.21 Numeric representation of benthic families at Bargi Reservoir, Jabalpur

Sl. No.	Benthic Families	Number of Organisms			
		Nov., 07	April, 08	Oct., 08	Jan.,09
1.	Philopotamidae	11	-	-	
2.	Policentropodidae	06	-	-	
3.	Caenidae	13	08	-	49
4.	Baetidae	07	-	-	04
5.	Viviparidae	62	22	-	04
6.	Sialidae	01	-	-	
7.	Chironomidae	01	09	-	01
8.	Macromiidae	-	02	-	
9.	Ephemeridae	-	03	-	
10.	Gomphidae	-	01	-	
11.	Corydalidae	-	01	-	
12.	Thiaridae	-	25	-	01
13.	Corbiculidae	-	45	-	
14.	Palaemonidae	-	01	-	
15.	Assimineidae	-	47	-	
16.	Heptageniidae	-	-	03	
17.	Hydropsychidae	-	-	07	
18.	Corixidae	-	-	08	01
19.	Planorbidae	-	-	02	
20.	Bithynidae				07
21.	Hirudinidae				02
22.	Haliplidae				03



## 2.22 Numeric representation of benthic families at Bargi Dam D/S, Jabalpur

Sl. No.	Benthic Families	Number of Organisms			
		Nov., 07	April, 08	Oct., 08	Jan.,09
1.	Goeridae	14	-	-	
2.	Caenidae	11	-	30	
3.	Baetidae	01	02	-	
4.	Thiaridae	01	-	-	32
5.	Corixidae	01	-	-	
6.	Ecnomidae	05	-	-	
7.	Hydropsychidae	55	49	-	15
8.	Pyralidae	07	-	-	
9.	Corydalidae	01	-	-	
10.	Ceratopogonidae	01	-	-	
11.	Chironomidae	16	-	04	
12.	Leptophlebitidae	-	01	-	
13.	Ecnomidae	-	01	-	
14.	Bithynidae	-	-	15	
15.	Planorbidae	-	-	04	
16.	Libellulidae	-	-	03	
17.	Cirolanidae	-	-	02	
18.	Dytiscidae	-	-	02	

## 2.23 Numeric representation of benthic families at Saraswati Ghat, Jabalpur

Sl. No.	Benthic Families	Number of Organisms			
		Nov., 07	April, 08	Oct., 08	Jan.,09
1.	Hydropsychidae	01	01	-	01
2.	Baetidae	17	-	-	01
3.	Chironomidae	06	-	-	
4.	Perlidae	-	06	-	
5.	Leptophlebiae	-	10	-	
6.	Thiaridae	-	03	06	11
7.	Corixidae	-	-	02	10
8.	Heptageniidae	-	-	13	
9	Halplidae				13
10	Corbiculidae				01

## 2.24 Numeric representation of benthic families at Jogi Tikaria, Dindori

Sl. No.	Benthic Families	Number of Organisms		
		April, 08.	Oct., 08	Jan.,09
1.	Naucoridae	01	-	
2.	Leptoceridae	15	-	
3.	Libellulidae	01	-	
4.	Thiaridae	01	08	12
5.	Viviparidae	09	03	02
6.	Planorbidae	01	-	
7.	Unionidae	-	03	
8.	Corbiculidae	-	01	
9.	Perlidae	-	02	
10.	Hydropsychidae	-	43	11
11.	Philopotamidae	-	05	
12.	Heptageniidae	-	09	
13.	Caenidae	-	02	
14.	Baetidae	-	03	
15.	Corixidae	-	04	
16.	Bithynidae			05
17.	Amblemidae			02
18.	Gomphidae			01

## 2.25 Numeric representation of benthic families at Dindori Ghat

Sl. No.	Benthic Families	Number of Organisms		
		April, 08.	Oct., 08	Jan.,09
1.	Gerridae	07	-	
2.	Thiaridae	18	61	15
3.	Assimineidae	03	-	
4.	Corbiculidae	03	01	
5.	Palaemonidae	01	-	
6.	Heptageniidae	-	03	10
7.	Hydropsychidae	-	16	05
8.	Polycentropodidae	-	01	
9.	Viviparidae	-	01	
10.	Unionidae	-	01	
11.	Amblemidae	-	01	
12.	Bythinidae			01
13.	Spheridae			01
14.	Libellulidae			21
15.	Gomphidae			01
16.	Atydae			06
17.	Ephemeridae			02
18.	Protoneuridae			04
19.	Caenidae			09
20.	Corixidae			16
21.	Baetidae			06

## 2.26 Numeric representation of benthic families at Jhansi Ghat, Shahpura

Sl. No.	Benthic Families	Number of Organisms		
		April, 08.	Oct., 08	Jan.,09
1.	Gerridae	-	-	
2.	Thiaridae	-	07	05
3.	Assimineidae	-	-	
4.	Corbiculidae	-	09	04
5.	Palaemonidae	-	-	-
6.	Heptageniidae	-	05	
7.	Perlidae	-	10	01
8.	Bithynidae	-	01	02
9.	Corixidae	-	06	
10.	Gomphidae	-	01	02
11.	Dytiscidae	-	01	
12.	Baetidae	-	47	59
13	Protoneuridae	-	-	01
14	Aphelocheridae	-	-	01
15	Hydrapsychidae	-	-	03
16	Hydrophilidae	-	-	01

## 2.27 Numeric representation of benthic families at Barman Ghat, Narsingpur

Sl. No.	Benthic Families	Number of Organisms		
		April, 08.	Oct., 08	Jan.,09
1.	Gyrinidae	-	138	-
2.	Palaemonidae	-	09	-
3.	Thiaridae	-	06	11
4.	Corbiculidae	-	06	03
5.	Viviparidae	-	02	02
6	Gomphidae	-	-	01
7	Libellulidae	-	-	02
8	Gerridae	-	-	04
9	Corixidae	-	-	34
10	Atydae	-	-	04
11	Spheridae	-	-	01
12	Baetidae	-	-	20