

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Kim Basin Gujarat

2 River :Kim

3 Site : MOTI NAROLI

4 Name & Location of Laboratory : Level II Laboratory , Tapi Division, CWC, Surat

5 Type of Staion, Parameter and frequency of monitoring : TrendStation , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 2000-01 to 2005-06						Last year Average 2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
SITE : MOTI NAROLI		Monsoon	Non-Monsoon	Monsoon	Non-Monsoon	Monsoon	Non-Monsoon	Monsoon	Non-Monsoon	
PARAMETERS-										
1. PHYSICAL										
Discharge	Cumecs	459.9	7.844	22.48453	2.443204848	0.248	0	84.34833	3.776	
Temperature	C	32	34.5	28.38167	23.44833333	20	14	29.75	27.41666667	
pH		8.6	8.68	8.14064	8.119692424	7.7	7.8	8.333333	8.05	
Conductivity	Micro mho	1473	1744	562.2667	724.0692424	178	283	567.5	723	
at 25 C	cm									
Total Dissolved Solid	mg/l	712	1206	435.6354	509.8125	121	217	425	595	
Total Suspended Solid	mg/l	89	133	60.71875	69.95833333	34	36	77.5	98.16666667	
Turbidity	NTU	34	7	3.441667	1.229166667	0	0	7.6	1	
2. CHEMICAL										
Potassium	mg/l	10	8	1.669697	2.089957576	0	0	0	1	
Sodium	mg/l	146	190	38.00152	65.32966667	0	0	0	73.1	
Calcium	mg/l	40.26	42.8	33.29682	34.9065803	28.86	30.5	35.33333	36.33333333	
Magnesium	mg/l	13.26	16.18	8.269636	9.639006061	4.78	4.8	9.7	11.03333333	
Aluminium	mg/l	0.12	0.06	0.033621	0.017357576	0	0	0.076667	0.035	
Iron	mg/l	0.26	0.32	0.084285	0.122138047	0	0			
Ammonium	mg/l	0.9	2.45	0.092417	0.113028788	0	0	0.505	0.098333333	
Carbonate	mg/l	6	7	0.808333	0.93	0	0	3.166667	1.166666667	
Bicarbonate	mg/l	293	341	155.3535	178.3649697	100	91.44	217.6667	248	
Chloride	mg/l	188	246.7	64.92421	92.41861364	10	22	98.16667	123.4833333	
Fluoride	mg/l	0.78	2.85	0.250304	0.281480303	0.05	0.04	0.183333	0.081666667	
sulphate	mg/l	55.9	144.09	15.38424	17.74656136	1.572	0.651	28.45	17.8	
Sulphite	mg/l	-	-	-	-	-	-	-	-	
Nitrate	mg/l	1	0.59	0.187345	0.183946212	0.02	0.02	0.415	0.111666667	
Nitrite	mg/l	0.22	0.08	0.022402	0.015757576	0	0	0.063333	0.016666667	
Phosphate	mg/l	0.48	1.22	0.102138	0.136427273	0	0	0.274333	0.111666667	
Silicate	mg/l	28.38	28.06	18.26682	15.59627879	9.8	0	22.36667	18.38333333	
B.O.D.	mg/l	7	7	0.921136	0.914602273	0.1	0.1	2.066667	2.15	
D.O..	mg/l									
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	149.9821082	167.8884008	117.1418	126.7577351	91.74283	95.8346465	128.6667	136.3333333	
Sodium Percentage	m.eq/l	67.28007973	74.88719786	34.89383	46.80131787	0	0	0	55	
S.A.R.	m.eq/l	5.196584325	7.085028044	1.509054	2.489184917	0	0	0	2.8	
R.S.C.	m.eq/l	2.4	3.2	0.377931	0.706303782	0	0.007655741	1.166667	1.4	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Tapi Basin Gujarat

2 River :Tapi

3 Site : BURHANPUR

4 Name & Location of Laboratory : Level II Laboratory , Tapi Division, CWC, Surat

5 Type of Staion, Parameter and frequency of monitoring : Trend Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non-Monsoon	Monsoon	Non-Monsoon	Monsoon	Non-Monsoon			
1. PHYSICAL										
Discharge	Cumecs	25261.00	114.00	436.11	5.52	0.00	0.00	99.00	1.94	
Temperature	oC	32.00	36.00	27.37	23.71	20.00	16.00	28.25	23.92	
pH		8.90	9.03	8.12	8.19	7.28	7.60	8.60	8.23	
Conductivity at 25 C	Micro mho/cm	1348.00	1976.00	313.63	462.36	136.00	200.00	540.50	678.00	
Total Dissolved Solid	ppm	1037.00	1673.00	276.97	367.02	134.00	166.00	385.17	526.00	
Total Suspended Solid	ppm	88.00	188.00	52.56	64.14	10.00	35.00	74.83	94.33	
Turbidity	NTU	7.00	2.00	2.06	0.78	0.00	0.00	3.17	1.00	
2. CHEMICAL										
Potassium	mg/l	2.00	4.31	0.87	1.09	0.00	0.00	0.00	0.30	
Sodium	mg/l	48.00	239.40	12.62	46.42	0.00	0.00	0.00	239.40	
Calcium	mg/l	48.00	38.48	30.41	32.32	23.25	28.86	35.83	33.25	
Magnesium	mg/l	12.60	11.70	6.16	8.09	3.80	4.80	8.90	8.92	
Aluminium	mg/l	0.20	0.18	0.05	0.04	0.00	0.00	0.09	0.05	
Iron	mg/l	0.32	0.42	0.13	0.17	0.00	0.00			
Ammonium	mg/l	0.38	0.34	0.05	0.15	0.00	0.00	0.14	0.21	
Carbonate	mg/l	7.00	17.32	1.29	2.14	0.00	0.00	5.50	4.00	
Bicarbonate	mg/l	512.00	293.00	131.28	152.14	69.00	84.45	288.50	268.00	
Chloride	mg/l	202.60	319.00	25.37	42.98	6.00	12.00	69.00	84.20	
Fluoride	mg/l	0.51	0.58	0.22	0.25	0.05	0.03	0.25	0.22	
sulphate	mg/l	85.80	50.60	13.24	16.21	2.02	1.26	27.98	26.65	
Sulphite	mg/l	-	-	-	-	-	-	-	-	
Nitrate	mg/l	1.00	0.56	0.20	0.25	0.06	0.10	0.50	0.45	
Nitrite	mg/l	0.10	0.14	0.02	0.05	0.00	0.00	0.05	0.04	
Phosphate	mg/l	0.74	3.03	0.09	0.21	0.00	0.00	0.30	0.67	
Silicate	mg/l	38.86	21.36	20.40	15.14	3.86	0.00	25.55	17.83	
B.O.D.	mg/l	48.00	9.00	1.76	1.24	0.10	0.20	9.37	2.53	
D.O..	mg/l									
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	173.00	145.00	101.25	113.96	77.65	91.74	126.67	120.33	
Sodium Percentage	m.eq/l	44.50	78.00	19.60	36.49	0.00	0.00	0.00	78.00	
S.A.R.	m.eq/l	1.85	8.70	0.55	1.86	0.00	0.00	0.00	8.70	
R.S.C.	m.eq/l	5.10	2.70	0.35	0.37	0.00	0.00	2.38	2.13	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Tapi Basin Gujarat

2 River :PURNA

3 Site : Goplakheda

4 Name & Location of Laboratory : Level II Laboratory , Tapi Division, CWC, Surat

5 Type of Staion, Parameter and frequency of monitoring : Baseline Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
1. PHYSICAL										
Discharge	Cumecs	1636.00	30.00	48.92	4.44	0.00	0.00	8.61	0.00	
Temperature	C	32.00	30.00	27.14	21.11	21.00	0.00	26.33	24.00	
pH		9.30	9.01	8.16	7.40	7.70	0.00	8.60	8.13	
Conductivity at 25 C	Micro mho/cm	1022.00	1323.00	395.50	596.04	135.00	0.00	556.00	742.00	
Total Dissoved Solid	mg/l	769.00	820.00	310.12	466.64	178.00	166.00	414.67	569.33	
Total Suspended Solid	mg/l	82.00	86.00	54.88	62.22	34.00	35.00	75.00	77.67	
Turbidity	NTU	20.00	1.00	5.13	0.92	1.00	0.00	10.50	1.00	
2.CHEMICAL										
Potassium	mg/l	5.00	4.00	1.34	1.46	0.00	0.00			
Sodium	mg/l	102.00	134.00	27.31	52.11	0.00	0.00			
Calcium	mg/l	38.86	39.48	30.89	30.05	24.00	0.00	32.33	32.00	
Magnesium	mg/l	15.48	14.48	6.82	8.12	2.92	0.00	9.10	7.77	
Aluminium	mg/l	0.16	0.18	0.04	0.03	0.00	0.00	0.09	0.05	
Iron	mg/l	0.32	0.40	0.09	0.15	0.00	0.00			
Ammonium	mg/l	0.18	0.20	0.05	0.07	0.00	0.00	0.14	0.05	
Carbonate	mg/l	14.00	14.64	1.41	1.77	0.00	0.00	3.00	0.00	
Bicarbonate	mg/l	207.00	256.00	127.79	154.35	62.00	0.00	166.67	239.67	
Chloride	mg/l	349.50	180.00	44.51	72.09	6.00	0.00	127.70	125.63	
Fluoride	mg/l	0.68	0.63	0.20	0.22	0.04	0.00	0.23	0.05	
sulphate	mg/l	22.48	32.66	11.04	14.74	4.66	0.00	8.93	19.33	
Sulphite	mg/l	-	-	-	-	-	-	-	-	
Nitrate	mg/l	1.00	0.86	0.18	0.20	0.01	0.00	0.44	0.05	
Nitrite	mg/l	0.08	0.08	0.02	0.02	0.00	0.00	0.03	0.00	
Phosphate	mg/l	1.49	0.18	0.11	0.07	0.00	0.00	0.57	0.09	
Silicate	mg/l	25.30	25.36	17.74	14.32	4.80	0.00	24.17	19.70	
B.O.D.	mg/l	2.10	6.00	0.87	1.02	0.10	0.00	1.43	2.87	
D.O..	mg/l									
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	159.61	158.04	105.25	108.44	72.01	0.00	119.33	112.33	
Sodium Percentage	m.eq/l	65.17	65.73	30.31	40.09	0.00	0.00			
S.A.R.	m.eq/l	3.93	4.79	1.13	2.03	0.00	0.00			
R.S.C.	m.eq/l	1.20	2.00	0.22	0.51	0.00	0.00	0.50	1.70	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Tapi Basin Gujarat

2 River :Tapi

3 Site : SARANGKHEDA

4 Name & Location of Laboratory : Level II Laboratory , Tapi Division, CWC, Surat

5 Type of Staion, Parameter and frequency of monitoring : Baseline Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
1. PHYSICAL										
Discharge	Cumecs	9104.00	265.30	444.20	8.04	0.00	0.00	150.22	0.00	
Temperature	C	32.50	24.00	25.13	9.62	20.00	0.00	26.00	0.00	
pH		8.68	8.10	8.13	3.96	7.80	0.00	8.35	0.00	
Conductivity at 25 C	Micro mho/cm	500.00	503.00	268.46	178.82	132.00	0.00	281.00	0.00	
Total Dissoved Solid	mg/l	264.00	242.00	200.18	60.50	128.00	0.00	186.00	0.00	
Total Suspended Solid	mg/l	67.00	54.00	51.38	13.50	12.00	0.00	65.50	0.00	
Turbidity	NTU	10.00	2.00	3.80	0.50	1.00	0.00	4.50	0.00	
2.CHEMICAL										
Potassium	mg/l	4.00	2.00	1.09	0.85	0.00	0.00			
Sodium	mg/l	44.00	40.00	13.82	13.35	0.00	0.00			
Calcium	mg/l	35.24	32.06	30.08	15.59	23.25	0.00	32.00	0.00	
Magnesium	mg/l	9.80	8.90	5.77	3.36	3.80	0.00	7.75	0.00	
Aluminium	mg/l	0.20	0.06	0.04	0.01	0.00	0.00	0.10	0.00	
Iron	mg/l	0.20	0.30	0.08	0.09	0.00	0.00			
Ammonium	mg/l	0.10	0.12	0.02	0.02	0.00	0.00	0.06	0.00	
Carbonate	mg/l	13.00	0.00	1.11	0.00	0.00	0.00	1.50	0.00	
Bicarbonate	mg/l	171.00	160.00	116.90	66.07	59.00	0.00	146.50	0.00	
Chloride	mg/l	58.00	42.00	19.28	13.68	6.00	0.00	15.30	0.00	
Fluoride	mg/l	1.08	0.34	0.21	0.11	0.04	0.00	0.57	0.00	
sulphate	mg/l	14.82	14.34	10.09	6.07	3.80	0.00	12.05	0.00	
Sulphite	mg/l	-	-	-	-	-	-	-	-	
Nitrate	mg/l	0.26	0.20	0.09	0.06	0.01	0.00	0.08	0.00	
Nitrite	mg/l	0.08	0.08	0.02	0.01	0.00	0.00	0.04	0.00	
Phosphate	mg/l	0.88	0.14	0.09	0.03	0.00	0.00	0.48	0.00	
Silicate	mg/l	32.48	23.37	18.73	7.65	4.20	0.00	23.25	0.00	
B.O.D.	mg/l	2.10	1.50	0.91	0.38	0.00	0.00	0.90	0.00	
D.O..	mg/l									
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	128.22	116.59	98.82	52.70	77.91	0.00	112.00	0.00	
Sodium Percentage	m.eq/l	42.00	43.14	21.43	17.64	0.00	0.00			
S.A.R.	m.eq/l	1.69	1.64	0.60	0.56	0.00	0.00			
R.S.C.	m.eq/l	0.60	0.33	0.08	0.07	0.00	0.00	0.30	0.00	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Purna Basin Gujarat

2 River :Purna

3 Site : Mahuwa

4 Name & Location of Laboratory : Level II Laboratory , Tapi Division, CWC, Surat

5 Type of Staion, Parameter and frequency of monitoring : Baseline Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non-Monsoon	Monsoon	Non-Monsoon	Monsoon	Non-Monsoon			
1. PHYSICAL										
Discharge	Cumecs	2146.00	5.93	143.02	1.57	0.00	0.00	671.56	2.41	
Temperature	C	32.50	32.00	28.18	23.99	24.00	18.00	29.17	22.67	
pH		8.65	8.80	8.11	8.13	7.60	7.70	8.20	8.27	
Conductivity at 25 C	Micro mho/cm	617.00	781.00	289.90	418.61	122.00	218.00	292.67	411.00	
Total Dissolved Solid	mg/l	367.00	392.00	206.04	285.35	93.00	165.00	204.00	281.00	
Total Suspended Solid	mg/l	69.00	85.00	47.90	57.42	20.00	29.00	65.33	79.67	
Turbidity	NTU	52.00	2.00	9.25	0.77	0.00	0.00	26.50	1.00	
2. CHEMICAL										
Potassium	mg/l	4.00	4.00	1.06	1.40	0.00	0.00			
Sodium	mg/l	68.00	74.00	16.61	27.84	0.00	0.00			
Calcium	mg/l	35.86	42.86	30.21	32.52	22.48	30.50	32.00	32.00	
Magnesium	mg/l	9.86	12.68	5.97	7.70	2.86	4.80	7.77	8.10	
Aluminium	mg/l	0.12	0.02	0.03	0.01	0.00	0.00	0.09	0.02	
Iron	mg/l	0.30	0.24	0.07	0.10	0.00	0.00			
Ammonium	mg/l	0.08	0.39	0.02	0.06	0.00	0.00	0.05	0.15	
Carbonate	mg/l	7.00	8.00	0.73	1.22	0.00	0.00	1.33	1.00	
Bicarbonate	mg/l	280.00	280.00	119.06	153.61	60.96	94.45	182.67	260.00	
Chloride	mg/l	88.00	96.00	23.30	42.46	4.30	14.00	22.40	65.73	
Fluoride	mg/l	0.58	0.84	0.14	0.22	0.04	0.05	0.05	0.16	
sulphate	mg/l	34.80	23.90	11.48	13.28	2.20	2.70	23.53	21.50	
Sulphite	mg/l	-	-	-	-	-	-	-	-	
Nitrate	mg/l	1.00	0.39	0.14	0.16	0.01	0.04	0.51	0.26	
Nitrite	mg/l	0.39	0.06	0.03	0.02	0.00	0.00	0.15	0.03	
Phosphate	mg/l	0.93	0.21	0.08	0.08	0.00	0.00	0.41	0.15	
Silicate	mg/l	26.84	18.64	15.00	12.67	0.00	0.00	21.33	14.53	
B.O.D.	mg/l	2.70	1.70	0.56	0.68	0.10	0.10	0.53	0.60	
D.O..	mg/l									
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	130.01	159.07	99.96	112.86	67.85	95.83	112.33	114.00	
Sodium Percentage	m.eq/l	54.59	49.49	23.81	32.23	0.00	0.00			
S.A.R.	m.eq/l	2.72	2.55	0.71	1.13	0.00	0.00			
R.S.C.	m.eq/l	2.40	2.50	0.24	0.37	0.00	0.00	1.20	2.07	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Ambika Basin Gujarat

2 River :Ambika

3 Site : Gadat

4 Name & Location of Laboratory : Level II Laboratory , Tapi Division, CWC, Surat

5 Type of Staion, Parameter and frequency of monitoring : Baseline Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 1996-97 to 2005-06						Last year Average 2005-06		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non-Monsoon	Monsoon	Non-Monsoon	Monsoon	Non-Monsoon			
1. PHYSICAL										
Discharge	Cumecs	1767.00	48.50	130.87	1.51	0.00	0.00	507.84	0.00	
Temperature	C	34.00	34.00	28.36	23.32	22.00	16.00	28.33	21.67	
pH		8.73	8.70	8.11	8.15	7.70	7.60	8.23	8.23	
Conductivity at 25 C	Micro mho/cm	644.00	836.00	277.16	382.69	122.00	207.00	271.00	411.00	
Total Dissolved Solid	mg/l	408.00	502.00	206.13	273.56	89.00	143.00	191.33	282.00	
Total Suspended Solid	mg/l	88.00	91.00	48.90	59.69	18.00	28.00	64.00	85.67	
Turbidity	NTU	26.00	1.00	3.79	0.75	0.00	0.00	9.33	1.00	
2. CHEMICAL										
Potassium	mg/l	2.00	4.20	0.98	1.28	0.00	0.00			
Sodium	mg/l	82.00	44.00	15.97	24.08	0.00	0.00			
Calcium	mg/l	33.84	40.06	29.78	32.25	23.25	27.84	32.00	32.67	
Magnesium	mg/l	9.60	12.64	5.94	7.33	2.86	3.86	8.40	8.73	
Aluminium	mg/l	0.22	0.04	0.04	0.01	0.00	0.00	0.08	0.02	
Iron	mg/l	0.18	0.24	0.07	0.09	0.00	0.00			
Ammonium	mg/l	0.10	0.34	0.02	0.04	0.00	0.00	0.06	0.05	
Carbonate	mg/l	14.00	8.00	0.87	1.59	0.00	0.00	1.33	2.00	
Bicarbonate	mg/l	244.00	280.00	117.47	141.89	61.00	90.92	178.67	268.00	
Chloride	mg/l	108.00	98.96	23.39	35.49	6.00	8.00	24.13	27.63	
Fluoride	mg/l	0.52	0.41	0.14	0.18	0.02	0.05	0.09	0.05	
sulphate	mg/l	37.80	20.20	10.99	12.36	2.60	1.89	24.10	15.67	
Sulphite	mg/l	-	-	-	-	-	-	-	-	
Nitrate	mg/l	0.90	0.38	0.16	0.14	0.01	0.03	0.67	0.05	
Nitrite	mg/l	0.40	0.09	0.03	0.01	0.00	0.00	0.18	0.00	
Phosphate	mg/l	0.55	0.32	0.06	0.08	0.00	0.00	0.30	0.10	
Silicate	mg/l	36.84	17.68	16.16	13.22	3.86	0.00	21.77	14.90	
B.O.D.	mg/l	2.10	2.00	0.60	0.67	0.10	0.10	0.47	0.47	
D.O..	mg/l									
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	120.00	146.00	98.84	110.67	72.01	85.33	115.33	118.00	
Sodium Percentage	m.eq/l	63.83	43.07	23.58	30.30	0.00	0.00			
S.A.R.	m.eq/l	3.57	1.72	0.69	1.00	0.00	0.00			
R.S.C.	m.eq/l	1.70	2.30	0.17	0.31	0.00	0.00	1.03	2.13	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

- 1 Basin: Vaitarna Basin Gujarat
- 2 River :Vaitarna
- 3 Site :Durvesh
- 4 Name & Location of Laboratory : Level II Laboratory , Tapi Division, CWC, Surat
- 5 Type of Staion, Parameter and frequency of monitoring : Baseline Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 2000-01 to 2005-06						Last year Average 2005-		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
1. PHYSICAL										
Discharge	Cumecs	2819.00	6.03	283.92	0.97	0.00	0.00	404.34	0.82	
Temperature	C	32.00	28.00	27.21	22.75	0.00	0.00	27.00	25.50	
pH		8.51	8.52	7.83	7.10	7.00	0.00	7.90	7.85	
Conductivity at 25 C	Micro mho/cm	548.00	10000.00	195.47	803.65	105.00	0.00	165.50	5755.50	
Total Dissolved Solid	mg/l	389.00	8954.00	134.73	1455.50	88.00	160.00	116.50	5075.00	
Total Suspended Solid	mg/l	66.00	989.00	39.61	168.75	16.00	22.00	52.00	555.00	
Turbidity	NTU	5.00	2.00	1.98	0.38	0.00	0.00	3.00	0.00	
2. CHEMICAL										
Potassium	mg/l	1.00	1.00	0.89	0.78	0.00	0.00			
Sodium	mg/l	22.00	28.00	8.72	11.56	0.00	0.00			
Calcium	mg/l	32.84	39.00	27.84	28.01	20.06	0.00	31.00	35.00	
Magnesium	mg/l	6.80	12.60	4.82	5.61	2.66	0.00	6.30	9.20	
Aluminium	mg/l	0.14	0.04	0.04	0.01	0.00	0.00	0.07	0.03	
Iron	mg/l	0.14	0.18	0.05	0.06	0.00	0.00			
Ammonium	mg/l	0.05	0.20	0.02	0.03	0.00	0.00	0.05	0.19	
Carbonate	mg/l	6.00	6.00	0.15	0.60	0.00	0.00	0.00	0.00	
Bicarbonate	mg/l	134.00	159.00	100.28	107.83	68.77	0.00	103.50	152.50	
Chloride	mg/l	32.00	5013.10	12.40	289.30	5.14	0.00	6.85	2709.80	
Fluoride	mg/l	0.30	0.48	0.10	0.17	0.00	0.00	0.05	0.14	
sulphate	mg/l	15.72	144.10	6.91	16.33	2.48	0.00	11.65	90.80	
Sulphite	mg/l	-	-	-	-	-	-	-	-	
Nitrate	mg/l	0.40	0.36	0.10	0.11	0.01	0.00	0.22	0.21	
Nitrite	mg/l	0.06	0.04	0.01	0.01	0.00	0.00	0.02	0.02	
Phosphate	mg/l	0.43	0.18	0.05	0.04	0.00	0.00	0.26	0.10	
Silicate	mg/l	30.28	22.20	15.62	11.96	2.80	0.00	18.65	18.50	
B.O.D.	mg/l	2.20	4.00	0.49	0.98	0.10	0.30	0.20	3.00	
D.O..	mg/l									
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	107.95	150.00	89.19	92.93	62.04	0.00	102.50	125.00	
Sodium Percentage	m.eq/l	33.00	35.13	16.65	18.31	0.00	0.00			
S.A.R.	m.eq/l	0.98	1.15	0.40	0.50	0.00	0.00			
R.S.C.	m.eq/l	0.38	0.60	0.06	0.04	0.00	0.00	0.10	0.30	

STATEWISE/BASINWISE INFORMATION ON WATER QUALITY

1 Basin: Dhadar Basin Gujarat

2 River :Dhadar

3 Site :Pingalwada

4 Name & Location of Laboratory : Level II Laboratory , Tapi Division, CWC, Surat

5 Type of Staion, Parameter and frequency of monitoring : Flux Station , 24 parameters, monthly

Water Quality Data

Parameter	Unit	Analysis of Data From 2000-01 to 2005-06						Last year Average 2005-		Remark
		Maximum observed		Average observed		Minimum observed		Monsoon	Non- Monsoon	
		Monsoon	Non- Monsoon	Monsoon	Non- Monsoon	Monsoon	Non- Monsoon			
1. PHYSICAL										
Discharge	Cumecs	775.80	2.62	30.72	1.01	0.31	0.23	135.34	1.71	
Temperature	C	31.50	32.00	26.70	23.17	16.00	12.00	28.90	24.25	
pH		8.45	8.54	8.02	7.99	7.20	7.40	8.04	7.68	
Conductivity at 25 C	Micro mho/cm	1750.00	1833.00	928.03	1259.32	172.00	711.00	973.40	1393.83	
Total Dissoved Solid	mg/l	1144.00	1278.00	716.87	904.15	83.00	513.00	701.40	1142.67	
Total Suspended Solid	mg/l	100.00	126.00	78.22	84.13	1.00	47.00	93.00	107.83	
Turbidity	NTU	12.00	4.00	2.98	1.50	0.00	1.00	1.00	1.33	
2. CHEMICAL										
Potassium	mg/l	22.00	17.30	3.18	4.51	0.00	0.00	0.00	7.80	
Sodium	mg/l	222.00	238.00	84.01	146.62	0.00	0.00	0.00	203.00	
Calcium	mg/l	51.86	55.16	36.69	39.53	25.60	33.67	37.60	39.50	
Magnesium	mg/l	18.60	18.60	9.99	11.85	4.80	6.80	10.68	12.00	
Aluminium	mg/l	0.18	0.16	0.07	0.04	0.00	0.00	0.12	0.07	
Iron	mg/l	0.62	0.68	0.20	0.23	0.00	0.00			
Ammonium	mg/l	27.46	26.94	7.13	10.71	0.04	0.00	1.40	0.08	
Carbonate	mg/l	6.00	6.00	0.20	0.09	0.00	0.00	1.20	0.00	
Bicarbonate	mg/l	537.00	524.00	226.78	267.80	88.00	149.94	395.00	381.33	
Chloride	mg/l	442.10	308.00	139.44	199.52	10.42	82.00	195.72	228.75	
Fluoride	mg/l	0.88	1.47	0.31	0.31	0.05	0.05	0.11	0.08	
sulphate	mg/l	78.00	71.05	26.90	34.43	4.88	0.79	13.14	32.60	
Sulphite	mg/l	-	-	-	-	-	-	-	-	
Nitrate	mg/l	3.80	0.98	0.49	0.35	0.06	0.03	0.40	0.13	
Nitrite	mg/l	0.98	0.38	0.15	0.13	0.00	0.00	0.12	0.02	
Phosphate	mg/l	2.17	2.06	0.84	1.16	0.00	0.00	1.06	1.27	
Silicate	mg/l	34.86	26.32	22.26	20.12	9.80	0.00	25.30	22.65	
B.O.D.	mg/l	64.00	49.00	12.37	14.76	0.40	2.00	9.00	11.00	
D.O..	mg/l									
3. CHEMICAL INDICES										
Hardness Number	m.eq/l	201.24	211.55	133.47	147.49	83.61	111.97	138.80	149.17	
Sodium Percentage	m.eq/l	74.43	76.25	45.65	62.13	0.00	0.00	0.00	74.00	
S.A.R.	m.eq/l	7.11	8.11	3.10	5.29	0.00	0.00	0.00	7.30	
R.S.C.	m.eq/l	5.80	5.70	1.22	1.57	0.02	0.04	3.78	3.30	