WATER QUALITY OF MAJOR RIVERS IN HIMACHAL PARDESH MONITORED UNDER MINARS PROGRAMME

DURING 2018-19

Results of Major Rivers (MINARS) Points from April 2018 to March 2019

Name Of Location	Parameter	Apr 18	May 18	Jun 18	Jul 18	Aug 18	Sept 18	Oct 18	Nov 18	Dec 18	Jan 19	Feb 19	Mar 19
U/S Slapper, River Satluj	pH	8.23	8.25	7.90	8.25	8.00	8.46	8.14	8.08	7.50	8.54	8.21	7.81
	DO	11.8	11.2	12.1	11.3	11.3	9.9	10.5	9.7	9.6	9.7	9.6	9.5
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	150	210	240	210	120	120	140	180	210	170	170	220
D/S Slapper, Satluj River after Conf. with River Beas	pH	8.09	8.26	8.01	8.29	8.04	8.43	8.23	8.22	7.86	8.48	8.24	7.97
	DO	11.6	11.9	11.7	11.6	10.9	10.1	11.5	9.9	9.8	10.1	10.3	9.9
	BOD	0.1	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.1
	TC	280	350	350	240	170	170	210	280	240	280	220	280
Exit of Dehar Power House, Beas River	pH	8.17	8.00	8.05	8.37	8.10	8.04	8.22	8.28	7.91	8.56	8.25	8.01
	DO	11.6	10.2	10.9	8.9	9.6	9.2	8.9	8.5	8.9	9.8	9.3	8.7
	BOD	0.2	0.2	0.4	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
	TC	350	350	350	280	210	130	180	110	280	350	280	350
D/s Bilaspur at Govindsagar	pH	8.10	8.30	8.26	8.66	8.18	8.22	8.29	8.39	8.05	8.5	8.19	8.29
	DO	8.1	11.5	8.4	11.1	10.3	9.9	9.0	8.9	9.8	9.8	9.8	9.7
	BOD	0.6	0.6	0.4	0.4	0.4	0.2	0.4	0.4	0.4	0.3	0.5	0.3
	TC	920	540	430	430	280	350	540	350	540	540	350	540
U/s Mandi, Beas River)	pH	8.03	7.63	8.25	8.34	7.64	7.85	8.28	8.34	8.15	8.26	8.03	8.12
	DO	7.2	8.1	8.4	8.4	9.1	8.0	8.4	9.9	10.8	8.9	10.2	10.4
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1
	TC	170	170	120	170	120	210	130	210	180	280	240	210
D/s Mandi, Beas River	pH	8.08	7.65	8.26	8.33	7.73	7.94	8.24	7.86	8.13	8.15	7.73	8.14
	DO	7.9	8.7	8.4	6.9	7.4	8.0	8.3	11.9	11.2	9.8	11.2	10.9
	BOD	0.2	0.2	0.4	0.2	0.2	0.2	0.3	0.2	0.1	0.6	0.3	0.4
	TC	220	280	430	220	220	240	220	430	350	>1600	350	430
Rewalsar Lake	pH	8.35	8.14	8.06	8.26	7.9	8.46	8.26	7.87	8.08	6.88	7.85	7.45
	DO	6.0	6.7	6.8	7.2	7.4	7.4	7.3	10.8	8.3	5.3	7.9	6.5
	BOD	0.7	2.7	6.0	2.0	4.0	5.0	2.0	6.0	4.0	4.0	17	3.0
	TC	1600	1600	>1600	1600	920	920	920	1600	1600	920	>1600	920
D/s Mandi,	pH	7.98	7.89	8.55	8.39	7.70	8.52	7.96	8.58	8.13	8.30	8.0	8.38

Suketi Khudd (2607)	**DO**	6.4	6.9	5.7	8.5	7.0	7.5	7.5	9.7	10.7	10.5	9.7	11.0
	BOD	0.4	0.6	0.7	0.4	0.4	0.2	0.2	0.4	0.2	0.6	0.4	0.3
	TC	540	920	540	540	350	280	280	540	540	>1600	430	540
R.Beas, U/s Pandoh Dam	**pH**	7.83	7.72	8.30	8.30	7.61	7.33	8.18	8.56	8.11	8.40	8.01	8.05
	DO	8.3	8.5	8.9	8.6	9.3	8.9	8.9	10.4	11.3	11.0	10.2	10.8
	BOD	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.3	0.1	0.4	0.2	0.2
	TC	170	210	240	150	130	220	130	240	220	280	210	170
R.Beas, D/s Pandoh Dam	**pH**	7.87	7.04	7.99	8.36	7.63	7.56	8.13	8.38	8.17	8.14	8.11	7.97
	DO	7.6	6.7	8.6	8.5	8.1	7.7	8.3	10.2	11.4	11.1	10.6	11.0
	BOD	0.2	0.2	0.4	0.2	0.1	0.1	0.1	0.3	0.1	0.4	0.2	0.2
	TC	220	220	220	210	150	280	170	280	280	350	240	210
R.Beas, D/s Aut	**pH**	7.90	7.84	8.13	8.09	7.55	8.15	8.26	8.3	8.12	8.1	7.82	6.95
	DO	11.0	8.5	7.8	8.5	7.6	7.3	8.7	9.2	9.5	11.0	10.4	9.7
	BOD	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.2	0.5
	TC	240	170	210	210	210	170	220	240	170	280	210	350
R.Sainj, D/s Largi	**pH**	7.87	7.81	8.11	7.68	7.66	8.18	8.46	8.32	8.10	7.97	7.8	7.31
	DO	12.0	8.9	8.7	8.4	7.7	7.3	8.8	9.2	9.2	11.0	9.4	9.6
	BOD	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
	TC	220	240	170	220	170	210	210	280	240	220	280	280
River Parvati, U/s Manikaran	**pH**	7.84	8.08	7.45	8.09	6.78	8.51	7.48	8.11	7.81	7.93	8.13	7.91
	DO	8.6	9.5	8.8	6.0	8.5	7.5	8.0	8.7	10.8	11.6	11.6	10.4
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	130	110	130	120	110	110	130	120	130	150	94	120
River Parvati, D/s Manikaran	**pH**	7.27	7.61	7.59	7.93	6.72	8.32	7.53	8.03	7.86	8.12	8.01	7.88
	DO	8.6	9.4	8.8	6.5	8.5	7.5	7.9	8.5	10.7	11.5	11.5	10.4
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
	TC	140	140	150	140	130	140	140	140	150	170	110	140
River Beas, U/s Manali	**pH**	7.88	8.11	8.42	8.63	8.03	Sample not received	7.74	7.83	8.01	7.77	7.87	7.48
	DO	8.7	9.8	9.3	8.8	4.8		6.2	9.3	10.1	11.2	11.2	9.4
	BOD	0.1	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.2	0.1	0.2
	TC	170	130	210	120	120		220	150	170	130	170	240
River Beas, D/s Manali	**pH**	7.99	8.06	8.23	8.53	7.93	Sample not received	7.90	8.10	7.93	7.93	7.68	7.55
	DO	10.5	9.9	9.0	8.5	5.2		7.5	9.2	7.5	11.0	11.1	9.2
	BOD	0.4	0.2	0.3	0.4	0.2		0.1	0.2	0.2	0.6	0.3	0.4
	TC	350	350	430	280	240		350	430	350	920	350	350
River Beas, U/s Kullu	**pH**	7.97	8.03	8.02	8.19	7.80	8.02	8.20	8.30	8.08	8.58	7.53	7.48
	DO	9.2	9.2	8.4	8.2	8.0	7.4	8.7	8.7	9.9	11.5	11.2	9.1

	BOD	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.4	0.2	0.2
	TC	220	220	280	240	170	210	240	350	430	540	280	280
River Beas, D/s Kullu	**pH**	7.95	7.85	7.98	8.06	8.12	8.06	8.14	8.26	8.07	8.42	7.65	7.50
	DO	9.2	9.1	8.3	8.2	7.8	7.4	8.6	8.6	9.8	10.8	10.8	8.8
	BOD	0.4	0.4	0.4	0.4	0.4	0.1	0.2	0.4	0.2	0.8	0.4	0.5
	TC	350	430	540	350	280	350	350	540	540	920	430	430
Parvati River, before confluence to R. Beas at Bhunter	**pH**	7.40	7.98	8.25	8.39	7.48	8.17	8.31	8.70	8.03	8.15	8.06	7.59
	DO	8.4	9.0	8.6	6.5	8.2	7.3	7.7	9.0	10.5	11.5	10.8	9.5
	BOD	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2
	TC	130	150	240	170	150	140	170	240	220	350	210	170
Manalsu Nalla before conf. to R. Beas	**pH**	8.20	8.21	8.15	8.56	8.01	Sample not received	8.22	8.75	8.00	7.62	7.93	7.40
	DO	10.2	10.0	9.2	9.0	6.1		8.2	9.4	7.2	10.9	11.4	9.3
	BOD	0.1	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.3	0.1	0.2
	TC	130	120	140	150	140		130	140	150	130	210	210
Sarvari Nalla before conf. to R. Beas	**pH**	7.86	7.82	8.23	8.13	8.06	8.07	8.11	8.42	8.23	8.15	7.70	7.65
	DO	9.3	9.3	8.8	8.8	8.5	7.2	8.8	8.8	9.0	8.1	11.0	8.5
	BOD	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1	0.2
	TC	120	140	120	150	120	170	150	240	280	920	240	280
Baragram Nalla before conf. to R. Beas	**pH**	8.16	8.59	8.01	8.43	7.79	Sample not received	7.89	8.20	8.27	7.75	7.84	7.56
	DO	9.7	10.2	9.1	6.9	9.9		7.5	9.5	8.1	11.3	11.5	8.7
	BOD	0.1	0.1	0.1	0.1	0.1		0.1	0.1	0.1	0.1	0.1	0.1
	TC	79	150	110	170	130		120	140	170	140	140	210
U/s Khairian Solid Waste Dumping Site Bilaspur	**pH**	--	--	8.62	8.41	8.08	8.31	8.47	8.3	8.44	8.62	8.1	8.26
	DO	_	_	11.1	10.5	10.6	9.7	9.0	9.8	9.9	9.7	9.8	9.8
	BOD	_	_	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
	TC	_	_	280	240	170	240	240	170	220	240	210	220
D/s Khairian Solid Waste Dumping Site Bilaspur	**pH**	_	_	8.55	8.43	8.33	8.28	8.71	8.42	8.4	8.58	8.28	7.80
	DO	_	_	11.6	10.8	11.1	9.8	9.0	9.9	9.7	9.9	9.7	9.8
	BOD	_	_	0.5	0.6	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2
	TC	_	_	540	350	350	540	350	280	350	280	220	240
R. Beas D/s Manalsu Nalla	**pH**	_	_	_	8.49	8.11	Sample not received	8.64	8.17	8.31	8.33	7.81	7.66
	DO	_	_	_	8.8	5.0		9.0	9.3	8.0	10.9	10.9	9.2
	BOD	_	_	_	0.1	0.1		0.1	0.1	0.2	0.1	0.1	0.1
	TC	_	_	_	220	170		220	240	180	210	220	280
R. Tirthan before conf. to R. Sainj	**pH**	_	_	_	7.89	7.52	8.09	8.32	8.34	8.23	8.11	7.28	7.54
	DO	_	_	_	8.8	8.4	7.6	9.0	9.1	9.5	11.6	9.5	9.7
	BOD	_	_	_	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

	TC	_	_	_	170	150	130	150	140	140	170	150	240
HandPump at Mandi Town	**pH**	8.30	_	_	8.23	--	--	8.18	_	_	_	_	--
	DO	--	_	_	--	--	--	--	_	_	_	_	--
	BOD	NIL	_	_	NIL	--	--	0.1	_	_	_	_	--
	TC	<1.8	--	--	<1.8	--	--	<1.8	_	_	_	_	--
HandPump at Bilaspur	**pH**	8.30	_	_	8.04	_	_	8.43	_	--	8.21	_	--
	DO	--	_	_	--	_	_	--	_	--	--	_	--
	BOD	NIL	_	_	NIL	_	_	0.1	_	--	NIL	_	--
	TC	<1.8	_	_	<1.8	_	_	<1.8	_	--	<1.8	_	--
HandPump at Shamshi	**pH**	8.43	_	_	7.80	_	_	8.48	_	--	7.21	_	--
	DO	--	_	_	--	_	_	--	_	--	--	_	--
	BOD	NIL	_	_	NIL	_	_	0.1	_	--	0.1	_	--
	TC	<1.8	_	_	<1.8	_	_	<1.8	_	--	<1.8	_	--
Well at MSW Site, Mandi	**pH**	_	8.28	_	_	_	_	8.51	_	_	_	_	--
	DO	_	--	_	_	_	_	--	_	_	_	_	--
	BOD	_	NIL	_	_	_	_	6.0	_	_	_	_	--
	TC	_	<1.8	_	_	_	_	920	_	_	_	_	--
HandPump at Keylong	**pH**	_	8.28	_	_	_	_	_	_	_	_	_	--
	DO	_	--	_	_	_	_	_	_	_	_	_	--
	BOD	_	NIL	_	_	_	_	_	_	_	_	_	--
	TC	_	<1.8	_	_	_	_	_	_	_	_	_	--
R. Yamuna U/s Paonta Sahib	**pH**	8.20	8.48	8.22	8.21	8.60	8.25	8.10	8.08	8.08	8.02	7.59	7.78
	DO	7.2	6.4	5.0	6.9	8.2	8.2	8.2	8.0	8.2	9.5	7.9	8.3
	BOD	0.3	0.3	1.0	0.1	0.4	0.4	0.6	1.7	1.6	1.4	0.4	0.3
	TC	22.0	26.0	26.0	38.0	40.0	34.0	32.0	39.0	38.0	34.0	38.0	34.0
R. Yamuna D/s Paonta Sahib	**pH**	8.19	8.44	8.29	8.17	8.27	8.32	8.39	8.29	8.19	8.09	7.72	7.90
	DO	7.0	6.5	5.5	6.6	8.0	8.0	7.8	8.0	8.1	9.0	7.8	7.6
	BOD	0.4	0.8	1.8	0.5	0.6	0.6	0.8	2.0	1.9	1.8	0.9	0.5
	TC	27.0	27.0	33.0	46.0	46.0	39.0	38.0	41.0	43.0	39.0	41.0	32.0
R. Batta U/s Paonta Sahib	**pH**	8.26	8.33	7.99	8.10	8.33	7.56	8.34	8.31	8.28	8.22	7.74	8.00
	DO	7.2	6.9	6.0	6.7	8.4	8.3	8.3	8.2	8.3	9.9	7.8	7.7
	BOD	0.1	0.5	1.0	0.2	0.6	0.4	0.5	1.4	0.5	0.7	0.2	0.2
	TC	20.0	21.0	20.0	33.0	38.0	38.0	34.0	32.0	31.0	34.0	39.0	32.0
R. Batta D/s Paonta Sahib	**pH**	8.23	8.39	8.00	8.18	8.30	7.60	8.28	8.38	8.20	8.20	8.29	8.03
	DO	7.1	6.5	5.2	6.6	8.2	8.2	7.6	7.9	8.2	10.4	7.7	8.2
	BOD	0.4	0.9	1.7	0.5	1.0	0.6	1.1	1.2	0.9	1.6	1.3	0.5
	TC	24.0	26.0	27.0	38.0	43.0	46.0	41.0	40.0	40.0	43.0	47.0	40.0

R. Giri D/s CCI on India, Rajban	**pH**	8.01	8.35	8.28	8.35	8.39	8.26	8.29	8.20	8.11	8.06	8.28	7.94
	DO	7.2	6.1	5.4	6.1	7.9	7.9	7.6	7.9	8.2	10.3	7.9	7.2
	BOD	0.2	0.5	0.8	0.2	0.8	0.6	0.5	0.3	1.6	1.6	1.6	0.5
	TC	21.0	24.0	26.0	34.0	38.0	33.0	31.0	34.0	39.0	34.0	38.0	32.0
R. Giri D/s Sataun	**pH**	7.94	8.12	8.28	8.29	8.50	8.24	8.28	8.22	8.06	8.11	8.27	7.99
	DO	7.4	6.8	5.7	6.3	8.2	8.0	7.6	8.2	8.4	11.2	7.9	7.6
	BOD	0.2	0.6	0.2	0.2	0.7	0.5	0.4	0.6	0.8	1.0	1.2	0.4
	TC	22.0	24.0	26.0	34.0	41.0	34.0	34.0	32.0	34.0	32.0	38.0	32.0
R. Giri U/s Sataun	**pH**	8.02	8.18	8.20	8.33	8.51	8.30	8.29	8.14	8.08	8.12	8.26	8.00
	DO	7.4	6.7	6.5	6.6	8.1	8.0	7.7	8.4	8.4	10.2	8.1	7.1
	BOD	0.1	0.4	0.1	0.2	0.2	0.2	0.3	0.4	0.7	0.8	0.6	0.2
	TC	21.0	24.0	21.0	32.0	34.0	32.0	27.0	27.0	32.0	32.0	34.0	27.0
Renuka Ji Lake	**pH**	8.05	8.27	8.02	8.24	8.30	8.08	8.12	8.03	8.14	8.10	7.87	8.01
	DO	6.3	6.8	6.1	5.5	8.2	6.4	6.9	7.1	6.8	7.1	6.7	6.9
	BOD	1.3	1.4	1.1	0.6	1.2	0.8	2.0	1.2	1.0	2.8	1.8	1.2
	TC	48.0	47.0	40.0	43.0	40.0	48.0	48.0	41.0	49.0	47.0	84.0	70.0
River Giri D/s Rajgarh Town	**pH**	--	**Sample Not Collected/ Received**	**Sample Not Collected/ Received**	7.85	8.20	8.10	8.28	8.29	8.24	8.10	7.90	8.10
	DO	_			6.5	7.7	7.8	7.4	7.9	8.0	9.9	7.8	9.0
	BOD	_			0.9	0.1	0.2	0.4	0.6	0.2	1.5	0.9	0.3
	TC	_			38.0	34.0	41.0	27.0	31.0	26.0	38.0	41.0	33.0
River Giri D/s Kalgidhar Trust, Baru Sahib	**pH**	_	**Sample Not Collected/ Received**	**Sample Not Collected/ Received**	7.64	8.29	8.18	8.26	8.19	8.29	8.15	7.97	8.03
	DO	_			6.7	7.7	7.9	7.5	7.9	8.0	9.8	7.8	8.8
	BOD	_			0.7	0.3	0.2	0.4	0.8	0.2	1.7	1.0	0.5
	TC	_			40.0	38.0	34.0	32.0	34.0	31.0	40.0	47.0	38.0
R. Markanda Sambhuwala at Paonta Sahib	**pH**	7.91	8.18	8.17	8.38	8.28	8.09	8.21	8.36	7.68	8.16	8.33	7.99
	DO	7.3	6.7	6.6	6.5	8.3	8.2	7.4	8.5	9.2	8.4	7.6	7.8
	BOD	0.3	0.4	1.6	0.1	0.3	0.3	0.2	0.8	0.2	1.0	1.0	0.6
	TC	26.0	27.0	21.0	31.0	38.0	34.0	31.0	32.0	26.0	31.0	34.0	38.0
Taalo Nala (From Nahan Town) at Khadar ka Bagh B/c to River Markanda	**pH**	_	**Sample Not Collected/ Received**	**Sample Not Collected/ Received**	8.30	8.24	8.23	8.34	8.31	7.83	7.99	8.24	8.04
	DO	_			6.5	8.2	8.1	9.2	9.0	9.0	8.0	5.9	6.3
	BOD	_			0.3	0.4	0.5	0.3	0.4	0.3	2.0	1.2	0.8
	TC	_			39.0	39.0	38.0	31.0	32.0	32.0	38.0	41.0	43.0
Salani Khad Near Bridge NH-7 Moginand Kala Amb	**pH**	8.12	**Source Dried**	**Source Dried**	8.23	7.98	8.40	8.05	8.09	7.92	8.02	7.99	8.11
	DO	7.2			6.0	7.9	7.9	7.4	9.4	8.2	8.5	7.8	8.9
	BOD	0.2			0.9	2.0	1.0	1.2	1.0	1.0	1.5	1.3	0.7
	TC	22.0			43.0	43.0	41.0	39.0	38.0	39.0	41.0	63.0	46.0

Markanda R. D/s of Salani Khad	**pH**	8.29	8.28	8.14	8.15	8.19	8.30	8.07	8.27	7.98	8.05	7.98	7.96
	DO	7.2	6.4	6.6	6.5	7.9	7.9	8.6	8.7	8.2	8.1	7.4	8.8
	BOD	0.3	0.9	0.5	0.8	0.4	0.6	0.6	0.8	0.7	1.6	0.8	0.6
	TC	26.0	31.0	25.0	39.0	40.0	46.0	34.0	32.0	34.0	38.0	48.0	39.0
Rampur Jattan Moginand Nallan Before conf. to R. Markanda Near Radha Swami Satsang Bhawan	**pH**	7.58	7.41	7.44	8.26	8.30	6.89	7.40	7.46	7.23	7.70	8.20	7.96
	DO	Nil	Nil	Nil	6.5	7.4	Nil	0.9	3.6	Nil	7.5	6.8	6.5
	BOD	42.0	180.0	50.0	6.2	0.4	42.0	30.0	21.5	610.0	6.8	10.8	2.9
	TC	540.0	920.0	540.0	94.0	38.0	280.0	540.0	540.0	>1600	>1600	4300.0	1600.0
Markanda R. D/s of Moginand Nallah	**pH**	8.29	8.20	8.10	8.02	8.27	8.14	8.14	8.16	8.02	8.09	7.92	8.08
	DO	7.1	6.3	6.8	6.1	7.1	7.8	9.2	9.8	8.1	8.9	8.1	7.9
	BOD	0.3	1.2	1.1	1.4	0.6	0.7	0.8	1.0	2.4	2.1	0.8	0.8
	TC	21.0	32.0	27.0	47.0	43.0	41.0	38.0	40.0	47.0	40.0	46.0	40.0
R. Markanda U/s Kala Amb	**pH**	8.13	8.34	8.19	7.92	8.36	7.40	7.86	7.98	7.86	8.01	8.24	8.05
	DO	7.4	6.3	6.8	6.8	7.6	8.2	8.2	9.8	7.9	8.9	8.4	7.4
	BOD	0.1	1.8	1.0	1.0	0.3	0.5	0.6	1.6	1.0	1.7	0.9	0.7
	TC	26.0	32.0	25.0	40.0	40.0	43.0	41.0	39.0	41.0	47.0	63.0	79.0
R. Markanda D/s Kala Amb	**pH**	7.70	**Source Dried**	8.39	8.16	8.32	8.08	8.11	8.24	7.88	8.04	8.25	8.06
	DO	7.2		6.4	6.7	7.7	8.0	9.2	9.6	7.9	9.6	9.1	8.5
	BOD	0.3		2.4	0.6	0.2	0.7	0.9	1.8	1.6	1.8	0.8	0.9
	TC	31.0		38.0	43.0	46.0	47.0	41.0	43.0	43.0	48.0	70.0	58.0
Roon Nallah Near Meerpur Kotla, Gurudwara	**pH**	**Source Dried**	**Source Dried**	8.05	8.10	8.30	8.21	8.27	8.32	7.97	8.14	8.21	8.11
	DO			6.5	6.3	7.6	8.2	8.8	9.4	7.7	8.9	8.3	8.5
	BOD			2.2	0.7	1.2	0.8	1.4	1.4	1.9	1.4	1.2	0.4
	TC			40.0	39.0	41.0	39.0	39.0	34.0	40.0	46.0	58.0	49.0
River Sirsa U/s Sitomajari	**pH**	7.29	7.55	7.22	8.14	8.07	7.51	7.55	7.97	7.55	7.49	8.12	8.16
	DO	6.4	6.2	6.4	5.7	6.5	6.2	6.9	6.9	6.9	9.2	7.8	7.7
	BOD	2.8	3.2	2.8	4.8	2.8	4.8	2.8	0.1	0.2	4.0	1.8	2.2
	TC	47	48	70	58	79	58	25	58.0	22	38	40	41.0
River Sirsa D/s Nalagarh Bridge	**pH**	7.70	7.54	7.28	8.00	8.09	8.24	8.80	8.62	8.34	7.53	8.90	8.26
	DO	4.2	6.1	5.9	6.1	6.2	5.8	6.2	6.2	5.2	8.4	8.3	7.2
	BOD	6.0	12	12.0	6.0	8.0	6.4	4.0	1.8	2.2	6.2	6.2	14.0
	TC	70	63	120	84	110	63	43	94	110	84	70	84
River Sirsa at D/s Nalagarh Town	**pH**	7.91	7.53	7.25	8.24	8.02	7.61	7.9	8.53	8.56	7.56	8.9	7.97
	DO	3.9	6.4	6.2	6.4	6.8	6.5	6.4	6.6	6.4	8.2	8.3	7.4
	BOD	10	6.0	8.0	8.0	10.0	8.0	3.6	8.2	1.8	6.4	6.2	7.2

	TC	94	79	84	70	120	70	40	220	220	150	70	79
River Sukhna at Parwanoo	**pH**	7.52	7.45	7.05	6.64	_	8.06	7.86	7.15	8.23	8.16	7.74	7.69
	DO	3.9	3.2	3.0	3.20	_	2.5	3.2	3.5	3.8	4.0	6.3	5
	BOD	8.0	18.0	18.0	12.0	_	8.4	10.0	12.0	28	52.0	12	72
	TC	350	920	>1600	350	_	170	110	110	920	1600	140	>1600
Solan D/s od MSW Dumping site	**pH**	_	8.06	8.03	8.00	8.26	8.15	8.20	7.76	7.97	8.39	8.33	7.57
	DO	_	8.0	7.8	7.5	7.50	8.1	8.0	8.0	7.8	8.0	9.2	9.0
	BOD	_	1.8	2.0	2.4	1.2	6.4	0.8	0.8	0.4	0.4	0.6	0.6
	TC	_	4.5	12	17.00	10	43	36	22.0	4.0	1.8	1.8	2.0
Ashwani at U/s Yaswant Nagar	**pH**	_	7.74	7.84	7.84	8.34	8.14	8.35	8	7.48	8.97	8.11	8.37
	DO	_	7.2	7.6	7.50	6.80	7.0	7.2	7.2	7.0	7.5	9.0	8.0
	BOD	_	2.0	1.0	2.0	1.0	5.0	2.8	0.8	1.0	0.4	0.8	0.8
	TC	_	25	33	47	27	40	17	25	26	14	32	33.0
Giri at D/s Yaswant Nagar	**pH**	_	7.91	7.96	7.82	8.23	8.13	8.33	7.72	7.52	8.25	7.32	8.4
	DO	_	7.5	7.4	7.4	7.1	7.0	7.5	7.5	7.3	7.8	8.8	8.5
	BOD	_	2.4	1.2	3.0	1.4	5.2	2.0	0.8	1.2	0.6	1.0	0.4
	TC	_	32	40	48	33	34	14	28	21	32	40	2.0
Well at Baddi	**pH**	7.45	_	_	_	_	_	_	_	_	_	_	_
	DO	_	_	_	_	_	_	_	_	_	_	_	_
	BOD	0.5	_	_	_	_	_	_	_	_	_	_	_
	TC	<1.8	_	_	_	_	_	_	_	_	_	_	_
Well at Barotiwala	**pH**	7.62	_	_	_	_	_	_	_	_	_	_	_
	DO	_	_	_	_	_	_	_	_	_	_	_	_
	BOD	0.6	_	_	_	_	_	_	_	_	_	_	_
	TC	<1.8	_	_	_	_	_	_	_	_	_	_	_
Wll at Nalagarh	**pH**	7.40	_	_	_	_	_	7.96	_	_	_	_	_
	DO	_	_	_	_	_	_	_	_	_	_	_	_
	BOD	0.4	_	_	_	_	_	0.2	_	_	_	_	_
	TC	<1.8	_	_	_	_	_	<1.8	_	_	_	_	_
Hand Pump Parwanoo I. A.	**pH**	_	_	_	_	_	_	_	_	_	_	_	_
	DO	_	_	_	_	_	_	_	_	_	_	_	_
	BOD	_	_	_	_	_	_	_	_	_	_	_	_
	TC	_	_	_	_	_	_	_	_	_	_	_	_
Well Baddi I.A.	**pH**	7.40	_	_	_	_	_	8.2	_	_	_	_	_
	DO	_	_	_	_	_	_	_	_	_	_	_	_
	BOD	0.4	_	_	_	_	_	0.2	_	_	_	_	_
	TC	<1.8	_	_	_	_	_	<1.8	_	_	_	_	_

Well Barotiwala I.A.	**pH**	7.39	_	_	_	_	_	7.99	_	_	_	_	_
	DO	_	_	_	_	_	_	_	_	_	_	_	_
	BOD	0.5	_	_	_	_	_	0.2	_	_	_	_	_
	TC	<1.8	_	_	_	_	_	<1.8	_	_	_	_	_
Well Nalagarh I.A.	**pH**	7.55	_	_	_	_	_	8.34	_	_	_	_	_
	DO	_	_	_	_	_	_	_	_	_	_	_	_
	BOD	0.5	_	_	_	_	_	0.20	_	_	_	_	_
	TC	<1.8	_	_	_	_	_	<1.8	_	_	_	_	_
Bhatianya Nallah D/s Sara Textile Nalagrh	**pH**	8.08	8.05	7.6	7.79	7.99	7.42	8.54	8.48	8.67	7.45	_	8.08
	DO	3.1	5.6	6.1	6.1	6.1	5.9	5.6	5.90	5.70	8.40	_	4.1
	BOD	14.0	14.0	10	10.0	6.0	14.0	10.0	0.10	0.80	17.0	_	24.0
	TC	1600	350	94	540	140	350	110	140	94	77	_	540
Surajmukhi nallah U/s WSSS Galyana	**pH**	_	_	_	_	_	_	8.14	7.5	8.17	8.14	7.92	7.8
	DO	_	_	_	_	_	_	7.0	7.0	7.6	7.5	8.5	7.5
	BOD	_	_	_	_	_	_	2.0	0.8	1.2	0.8	12.0	7.8
	TC	_	_	_	_	_	_	26	22	39	46	84	63.0
Giri River Village Maryaog after Confl. Of R. Giri & Ashwani	**pH**	_	7.84	6.8	7.3	8.3	8.18	8.25	7.36	8.13	8.17	8.13	8.38
	DO	_	7.8	7.5	7.1	7.0	7.1	7.6	7.6	7.4	7.6	9.5	8.2
	BOD	_	2.4	1.8	3.4	1.8	5	1.2	0.8	1.4	1.0	1.2	1.0
	TC	_	22	26.0	25	26	48	24	6.1	58	38	38	34.0
Bhatianya Nallah U/s Bhatinya Village Nalagrh	**pH**	8.02	7.91	7.23	7.6	8.4	7.5	8.3	8.36	7.7	6.94	_	8.39
	DO	4.9	5.8	6.3	6.2	6.2	5.7	5.1	6.2	6.2	6.2	_	7.2
	BOD	12.0	10.0	6.0	8.0	8.0	10.0	12.0	0.8	0.1	14.0	_	4.2
	TC	540	220	63	240	84	110	70	520	58	43	_	40.0
Bhatianya Nallah U/s Sara Textile Nalagarh	**pH**	_	_	_	7.71	_	_	_	_	_	_	_	_
	DO	_	_	_	5.8	_	_	_	_	_	_	_	_
	BOD	_	_	_	10.0	_	_	_	_	_	_	_	_
	TC	_	_	_	220	_	_	_	_	_	_	_	_
Well at Parwanoo	**pH**	7.28	_	_	_	_	_	_	_	_	_	_	7.8
	DO	_	_	_	_	_	_	_	_	_	_	_	8.1
	BOD	0.2	_	_	_	_	_	_	_	_	_	_	0.6
	TC	<1.8	_	_	_	_	_	_	_	_	_	_	12.0
Kunni pul at Kunihaar	**pH**	_	_	_	7.7	8.1	8.1	_	_	8.1	8.4	7.6	7.8
	DO	_	_	_	7.8	7.5	7.0	_	_	6.0	_	9.5	8.1
	BOD	_	_	_	4.0	2.8	6.0	_	_	1.8	0.2	1.2	0.6
	TC	_	_	_	21.0	47	47	_	_	63	32	43.0	12.0
River Satluj	**pH**	7.45	7.85	7.62	8.52	8.55	7.37	7.98	7.04	7.94	7.45	7.04	7.54

U/s Tattapani	**DO**	_	8.5	8.4	8.7	8.4	8.3	9	8.2	8	8.9	8.6	8.4
	BOD	0.4	0.4	0.3	0.9	0.5	0.2	1.5	1.6	1.6	1.7	0.2	0.8
	TC	_	_	20	140	220	350	220	140	120	280	280	>1600
River Satluj U/s Rampur	**pH**	7.1	7.39	7.62	8.51	8.57	7.25	7.31	6.96	7.69	6.54	7.54	7.44
	DO	_	8.9	8.8	8.7	8.8	8.7	9.6	8.8	8.0	8.0	8.5	8.5
	BOD	0.5	0.8	2.0	0.1	1.4	0.4	1.2	0.8	1.7	1.0	0.2	0.9
	TC	_	_	17	120	24	170	220	94	130	170	140	>1600
River Satluj D/s Rampur	**pH**	7.56	7.63	7.54	8.50	8.44	7.15	8.02	7.21	7.78	7.69	7.66	6.56
	DO	_	8.8	8.8	8.9	8.7	8.6	9.6	8.2	8.0	8.5	8.6	8.4
	BOD	0.4	1.0	1.4	0.7	0.9	0.5	0.7	1.0	1.8	0.8	1.5	0.5
	TC	_	_	170	170	47	280	540	33	220	430	210	>1600
River Satluj at Wangtoo Bridge	**pH**	7.67	7.34	7.86	8.50	8.33	7.21	7.55	6.75	7.71	7.31	7.59	7.59
	DO	_	9.1	9.0	9.5	9.1	9.1	9.6	8.8	8.9	8.4	8.7	8.5
	BOD	0.5	0.8	0.9	0.2	1.6	0.2	0.8	2.1	1.7	0.5	0.5	0.8
	TC	_	_	220	32	170	38	140	39	39	130	46	>1600
River Tons at H.P. Boundary	**pH**	7.45	7.18	7.94	7.58	7.93	_	7.69	8.21	7.27	8.06	6.92	7.92
	DO	8.5	8.5	8.2	9.0	9.3	_	9.2	8.2	8.5	10.3	10.3	9.8
	BOD	0.8	1.0	0.8	1.1	0.5	_	1.7	0.9	0.9	2.3	1.3	0.9
	TC	9.1	21	26	210	140	_	63	84	70	84	94	1600
River Satluj before conf. with River Spiti at Khab	**pH**	7.58	7.82	7.20	8.20	7.80	7.40	7.74	7.80	7.94	7.21	7.21	7.09
	DO	_	9.7	9.6	9.8	9.6	9.4	10.1	10.0	10.0	9.0	9.0	9.5
	BOD	0.1	0.7	0.9	2.7	1.0	0.6	0.3	0.4	0.9	1.0	0.5	1.7
	TC	_	_	20	9	94	14	63	25	17	58	39	6.8
Lift Stream/ Nala D/s MSW Processing Site, Shimla	**pH**	7.58	8.48	7.82	6.90	7.51	7.15	7.12	7.10	7.45	7.38	7.09	7.52
	DO	4.2	4.6	6.0	7.0	5.5	4.2	5.3	5.3	6.7	5.1	7.8	7.1
	BOD	8.0	15.0	1.4	1.0	2.4	3.4	6	4.4	4.5	38.0	42.0	26
	TC	210	540	70	280	350	210	350	280	540	>1600	>1600	>1600
River Spiti before conf. with River Satluj at Khab	**pH**	7.6	8.03	8.00	8.52	8.54	7.45	8.08	8.02	7.81	6.92	7.36	7.13
	DO	_	9.7	9.7	9.7	9.5	9.5	10.0	9.9	9.8	9.2	9.2	9.7
	BOD	0.2	0.3	0.7	1.5	1.5	0.4	0.5	0.6	1.7	1.3	0.5	1.3
	TC	_	_	21	9	17	20	84	21	24	63	47	>1600
River Satluj after conf. with River Spiti at Khab	**pH**	7.54	7.89	8.18	8.51	7.98	7.52	7.76	8.03	8.01	7.37	7.39	7.34
	DO	_	9.7	9.7	9.8	9.6	9.4	10.1	10.0	9.9	9.0	9.0	9.6
	BOD	0.3	0.4	1.0	0.3	1.4	0.6	1.6	0.4	0.8	0.7	1.2	0.9
	TC	_	…	17	14	12	20	46	24	24	48	48	>1600
River Baspa U/s reservoir	**pH**	7.82	7.49	7.53	8.56	7.50	7.15	8.06	7.02	7.81	7.59	7.55	7.54
	DO	_	9.3	9.5	9.1	9.3	9.4	9.8	9.9	10.0	9.5	9.5	9.2

Baspa HEP at Kuppa	**BOD**	0.2	1.0	0.9	0.5	0.7	0.7	0.5	0.8	1.5	0.6	0.5	0.6
	TC	_	_	70	84	280	46	43	47	70	40	46	>1600
River Pabbar U/s Dhambari	**pH**	8.15	6.96	7.76	7.08	8.00	_	7.92	8.36	6.79	7.42	7.54	7.64
	DO	9.3	8.4	7.9	9.5	8.8	_	9.2	8.5	8.6	10.3	10.1	8.5
	BOD	2.0	2.0	0.8	0.5	0.4	_	1.2	0.2	1.0	0.3	1.2	0.9
	TC	6.8	24.0	280	38	240	_	48	33	50	32	120	>1600
River Pabbar U/s Rohru	**pH**	7.74	7.05	7.52	7.14	8.01	_	7.76	8.52	7.08	7.63	7.57	7.71
	DO	9.5	8.2	7.8	8.5	8.5	_	8.2	8.6	8.7	10.5	10.0	8.6
	BOD	2.4	1.4	0.8	0.8	0.3	_	1.3	0.3	1.5	0.8	2.2	0.9
	TC	9.2	25.0	46	94	14	_	140	50	84	47	48	350
River Pabbar at Snail D/s of TRT of Swara Kuddu	**pH**	7.48	7.14	7.73	7.47	7.63	_	8.18	8.34	7.32	8.03	7.55	7.77
	DO	8.4	8.3	8.3	9.2	8.5	_	9.1	8.1	8.2	10.3	10.2	8.8
	BOD	1.0	0.8	1.2	1.0	1.8	_	0.6	0.6	0.6	0.4	1.8	1.6
	TC	6.1	21.0	24	94	24	_	110	50	63	48	26	350
Hand Pump Recong Peo	**pH**	7.7	_	_	8.14	_	_	7.50	_	_	_	_	.....
	DO	_	_	_	_	_	_	_	_	_	_	_	.....
	BOD	0.2	_	_	1	_	_	0.7	_	_	_	_	.....
	TC	_	_	_	_	_	_	_	_	_	_	_	.....
River satluj D/s TRT of RHEP	**pH**	7.54	7.61	7.59	8.51	_	7.07	7.62	7.01	7.86	6.82	7.53	7.35
	DO	_	8.8	8.7	8.9	_	8.4	9.5	8.1	8.3	8.5	8.5	8.5
	BOD	0.20	1.2	1.0	0.9	_	0.4	1.2	0.9	1.3	1.0	0.3	0.1
	TC	_	_	47	47	_	170	350	47	94	39	170	>1600
Karcham Dam	**pH**	7.86	7.84	7.45	8.48	_	7.05	7.80	7.04	7.89	7.40	7.57	7.44
	DO	_	8.9	8.7	9.3	_	9.0	9.7	8.9	8.5	8.3	8.5	8.7
	BOD	0.3	0.4	1.3	0.5	_	0.7	0.2	0.5	1.3	1.2	0.3	1.5
	TC	_	_	110	40	_	140	140	120	39	140	150	430
River Satluj D/s Power house at Kashang HEP	**pH**	7.69	7.82	7.69	8.51	_	7.10	7.71	_	7.80	7.28	_	7.48
	DO	_	9.3	9.3	9.1	_	9.1	9.8	_	9.0	8.7	_	8.7
	BOD	0.2	0.5	1.1	0.3	_	0.6	2.2	_	1.5	1.0	_	0.2
	TC	_	_	220	20	_	24	94	_	40	84	_	>1600
River satluj D/s Tidong HEP	**pH**	8.0	8.08	7.26	8.47	_	7.02	7.72	8.01	7.35	6.81	7.49	7.39
	DO	_	9.4	9.3	9.2	_	9.1	9.8	9.9	9.0	8.6	8.5	9.2
	BOD	0.2	0.6	1.0	0.4	_	0.9	0.8	0.1	1.1	0.6	2.7	0.5
	TC	_	_	24	20	_	14	84	21	33	70	94	>1600
River Giri U/s LWSS Sainj	**pH**	7.65	7.3	8.19	7.53	8.13	7.19	7.92	8.23	7.61	7.98	6.83	7.97
	DO	8.5	8.1	7.8	8.9	8.5	5.8	7.6	8.5	8.6	10.0	9.3	8.6
	BOD	2.2	2.0	1.2	0.5	0.3	1.0	1.2	1.4	1.5	1.5	1.2	0.4

	TC	9.2	40.0	110	220	25	24	63	140	140	120	110	210
River Giri D/s LWSS Sainj	**pH**	7.52	7.53	8.24	7.59	8.00	7.36	7.99	8.13	8.04	8.22	7.28	7.96
	DO	8.5	8.1	7.7	8.5	8.4	6.0	8.3	8.6	8.7	10.9	9.2	8.5
	BOD	2.8	2.0	0.8	0.6	1.3	1.0	1.5	0.7	1.5	1.0	1.7	1.5
	TC	12.0	48	39	220	48	14	140	110	130	94	210	350
River Pabbar U/s Hatkoti	**pH**	7.59	_	_	7.33	7.97	_	7.82	8.34	7.24	7.51	7.43	7.75
	DO	9.3	_	_	8.2	8.3	_	8.2	9.0	9.1	9.2	9.5	11.6
	BOD	1.8	_	_	0.8	0.4	_	2.1	1.1	1.1	1.1	0.4	0.1
	TC	13	_	_	38	13	_	63	63	110	70	63	>1600
Hand Pump at Shimla	**pH**	7.43	_	_	_	_	_	7.98	_	_	_	_	_
	DO	_	_	_	_	_	_	_	_	_	_	_	_
	BOD	0.5	_	_	_	_	_	0.5	_	_	_	_	_
	TC	<1.8	_	_	_	_	_	<1.8	_	_	_	_	_
Hand Pump at Rampur	**pH**	7.5	_	_	_	_	_	7.68	_	_	_	_	_
	DO	_	_	_	_	_	_	_	_	_	_	_	_
	BOD	0.3	_	_	_	_	_	0.6	_	_	_	_	_
	TC	_	_	_	_	_	_	_	_	_	_	_	_
River Binwa D/S Paprola/Baijnath (2608)	pH	7.08	7.76	8.02	7.81	6.79	7.12	7.34	7.32	7.02	7.02	7.28	7.62
	DO	8.70	7.5	7.5	7.8	7.6	7.7	7.5	7.5	7.7	8.5	8.6	8.5
	BOD	0.20	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.4	0.3	0.1	0.2
	TC	--	--	170	180	79	110	79	70	70	79	63	63
River Neugal D/S Thural (2609)	pH	8.46	7.63	7.76	7.54	7.84	7.32	7.86	7.58	7.72	8.06	7.9	7.48
	DO	7.90	7.3	7.3	7.8	7.9	7.8	7.3	7.4	7.8	8.2	8.7	8.5
	BOD	0.20	0.3	0.4	0.1	0.3	0.4	0.3	0.3	0.4	0.3	0.1	0.1
	TC	70	180	220	140	110	94	110	94	63	79	94	79
River Ravi U/S Chamba (1089)	pH	6.94	7.53	7.38	7.46	7.61	7.48	7.96	7.86	7.86	7.72	7.25	7.73
	DO	8.70	8.6	8.7	8.8	8.7	8.7	8.8	8.6	8.7	8.6	8.7	8.8
	BOD	0.10	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.1	0.3	0.3
	TC	140	94	140	130	180	140	110	110	94	70	84	140
River Beas D/S Jaisinghpur (2604)	pH	8.28	8.01	7.56	6.92	7.48	7.88	7.96	7.9	7.82	7.86	7.72	7.56
	DO	8.70	7.0	7.4	8.5	8.0	7.0	7.4	7.6	7.5	10.5	9.1	9.1
	BOD	0.20	0.6	0.3	0.3	0.4	0.5	0.7	0.5	0.5	0.4	0.4	0.5
	TC	110	110	280	170	280	110	130	79	94	170	130	94
River Beas D/S Alampur (1007)	pH	8.3	7.74	7.59	6.89	7.82	8.04	8.08	7.84	8.05	8.04	7.62	7.52
	DO	8.7	7.2	7.3	8.1	8.0	7.3	7.3	7.5	7.6	10.3	9.3	9.0
	BOD	0.3	0.8	0.3	0.4	0.3	0.3	0.8	0.4	0.3	0.4	0.5	0.4
	TC	79	130	170	180	170	130	79	110	79	150	84	110

River Ravi D/S Chamba (2613)	pH	7.29	7.83	7.21	7.58	7.05	7.4	7.65	7.7	7.32	7.06	7.14	7.32
	DO	8.70	8.6	8.5	8.8	8.7	8.8	8.6	8.6	8.6	8.6	8.6	8.7
	BOD	0.20	0.2	0.1	0.1	0.1	0.2	0.3	0.4	0.3	0.2	0.4	0.1
	TC	130	130	220	220	180	140	130	94	70	94	94	79
Khajiar Lake Chamba (2650)	pH	7.58	6.71	7.2	7.78	7.52	7.14	7.58	7.28	7.36	--	7.48	7.82
	DO	6.2	5.9	5.8	6.1	5.9	6.0	6.1	6.0	5.9	--	6.1	6.1
	BOD	7.0	6.0	6.0	3.0	4.0	2.5	2.5	1.8	0.7	--	0.9	1.8
	TC	540	540	540	350	110	220	170	120	180	--	180	180
River Ravi at Chamera Reservoir (2614)	pH	7.54	7.81	7.08	7.48	7.65	7.3	8.15	7.71	7.57	7.9	7.04	7.12
	DO	8.6	8.6	8.6	8.7	8.6	8.6	8.6	8.7	8.6	8.5	8.6	8.6
	BOD	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.5	0.1	0.2	0.2
	TC	180	94	350	220	180	110	63	70	110	79	58	70
River Siul D/S Surgani (2616)	pH	7.37	7.57	7.14	7.04	7.72	7.09	7.26	7.64	7.85	7.98	7.02	7.02
	DO	8.8	8.8	8.7	8.8	8.7	8.7	8.8	8.9	8.7	8.8	8.8	8.7
	BOD	0.4	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.4	0.3	0.1	0.4
	TC	140	70	350	180	280	180	110	79	79	94	79	130
River Ravi U/s Madhopur HW (1088)	pH	7.22	7.96	7.52	7.08	6.98	8.31	8.39	7.94	6.92	7.05	7.62	--
	DO	7.3	7.2	7.5	7.1	7.2	7.3	7.6	7.2	7.3	9.2	7.6	--
	BOD	0.3	0.1	0.2	0.1	0.1	0.4	0.3	0.2	0.2	0.2	0.2	--
	TC	170	--	220	140	94	--	--	110	49	79	79	--
River Satluj D/S Bhakhra (1016)	pH	8.10	7.74	8.06	7.18	7.81	7.88	7.96	7.35	7.78	--	7.28	7.62
	DO	7.0	6.4	7.3	6.6	8.6	7.1	7.1	7.3	7.1	--	7.1	7.1
	BOD	0.2	0.2	0.4	0.4	0.3	0.3	0.2	0.3	0.3	--	0.4	0.3
	TC	170	280	350	280	140	70	110	94	79	--	170	130
River Swan D/S (Nangal) Santokhgarh (1869)	pH	8.47	8.07	8.45	8.12	7.58	7.9	7.63	7.96	7.79	--	7.52	7.68
	DO	6.0	6.1	6.7	6.0	7.8	6.3	7.0	6.9	7.0	--	7.0	6.8
	BOD	0.5	0.3	0.4	0.2	0.4	0.8	0.3	0.6	0.4	--	0.3	0.5
	TC	170	280	350	350	170	63	79	130	110	--	180	140
River Ravi D/S of proposed Dam Chamera III (2615)	pH	7.41	7.82	7.68	7.65	7.68	7.52	7.54	7.82	7.98	7.76	7.32	7.72
	DO	8.8	8.8	8.8	8.8	8.8	8.9	8.7	8.8	8.8	8.8	8.8	8.8
	BOD	0.2	0.2	0.1	0.2	0.2	0.3	0.6	0.4	0.3	0.3	0.2	0.2
	TC	140	110	130	130	170	110	94	130	70	70	94	94
River Beas Pong Dam at Pong Village (1292)	pH	8.10	8.07	7.18	7.36	7.04	8.04	7.42	7.59	12.5	7.26	7.48	7.06
	DO	7.2	7.0	7.0	6.9	7.3	7.4	7.4	7.3	7.2	8.2	8.3	8.7
	BOD	0.2	0.2	0.1	0.1	0.1	0.3	0.2	0.3	0.2	0.1	0.2	0.3
	TC	180	--	--	180	140	--	94	70	63	94	94	94
River Beas	pH	7.66	8.13	7.28	7.32	7.18	8.15	7.54	7.96	7.92	7.43	7.24	7.18

D/S Pong Dam (1009)	DO	7.5	7.2	6.9	7.3	7.2	6.9	7.3	7.2	7.1	8.7	8.9	8.9
	BOD	0.3	0.3	0.2	0.2	0.2	0.4	0.3	0.4	0.1	0.4	0.3	0.2
	TC	220	--	--	170	94	--	79	63	94	110	110	130
Rever Beas D/S Dehra (1008)	pH	7.5	8.42	8.06	7.52	--	7.65	7.32	7.93	7.88	7.58	7.38	7.25
	DO	7.3	7.6	6.7	6.7	--	7.0	7.1	6.9	7.1	9.5	7.9	9.5
	BOD	0.8	0.2	0.4	0.4	--	0.5	0.3	0.4	0.3	0.2	0.5	0.2
	TC	70	220	170	180	--	110	130	79	79	70	70	170
Swan River U/s Satokhgarh Bridge 3858	pH	8.47	8.31	8.48	8.18	8.3	7.94	7.82	8.02	7.98	--	7.98	7.95
	DO	6.2	6.0	6.9	6.2	7.7	6.2	6.9	6.9	7.0	--	6.8	6.9
	BOD	0.3	0.1	0.3	0.2	0.5	0.6	0.7	0.3	0.3	--	0.2	0.2
	TC	280	220	280	280	220	70	140	140	70	--	94	110
River Beas D/s Nadaun Bridge 3855	pH	8.04	8.48	8.08	7.5	--	7.42	7.74	7.88	7.18	8.08	--	7.78
	DO	7.2	7.5	6.5	6.5	--	7.4	7.2	6.6	7.2	11.5	--	9.6
	BOD	0.4	0.2	0.5	0.3	--	0.6	0.1	0.3	0.6	0.1	--	0.3
	TC	110	280	280	170	--	170	79	94	70	170	--	84
Swan River U/s Una Town Ghaluwal Bridge 3859	pH	7.65	8.25	8.62	7.64	7.86	8.18	7.74	7.89	7.72	--	7.04	7.6
	DO	6.1	6.0	6.9	6.3	7.8	6.2	6.8	6.9	7.2	--	6.8	6.9
	BOD	0.2	0.2	0.2	0.1	0.3	0.2	0.5	0.2	0.2	--	0.3	0.3
	TC	180	170	240	180	110	79	170	110	63	--	130	94
Swan River U/s Ind. Area Gagret 3856	pH	7.69	8.37	8.62	8.17	8.35	8.3	8.08	8.14	7.56	--	7.04	7.54
	DO	6.0	6.5	7.0	6.7	7.8	6.1	6.9	7.1	7.2	--	6.8	7.0
	BOD	0.4	0.1	0.3	0.1	0.2	0.5	0.2	0.2	0.2	--	0.3	0.1
	TC	220	350	240	220	180	70	180	130	63	--	130	110
Swan River D/s Ind. Area Gagret 3857	pH	7.93	8.37	8.58	8.12	8.22	8.38	7.57	7.98	7.83	--	7.46	7.85
	DO	6.0	6.5	7.0	6.6	7.9	6.2	6.9	7.1	7.2	--	6.8	7.0
	BOD	0.3	0.2	0.2	0.3	0.4	0.6	0.3	0.3	0.3	--	0.4	0.3
	TC	70	280	280	170	280	94	140	110	79	--	--	140
River Ravi U/s STP (Barga) Chamba 3873	pH	7.38	7.58	7.45	7.78	7.34	7.5	7.74	7.96	7.7	7.55	7.2	7.52
	DO	8.7	8.8	8.6	8.8	8.7	8.8	8.5	8.7	8.6	8.7	8.6	8.7
	BOD	0.2	0.2	0.1	0.3	0.3	0.4	0.3	0.2	0.3	0.2	0.2	0.2
	TC	110	130	170	140	130	79	110	140	94	63	110	130
River Ravi D/s STP (Bhagot) Chamba 3874	pH	7.45	7.62	7.23	7.59	7.12	7.38	7.7	7.88	7.58	7.37	7.08	7.33
	DO	8.6	8.7	8.5	8.6	8.6	8.7	8.6	8.6	8.5	8.7	8.7	8.6
	BOD	0.3	0.5	0.2	0.4	0.4	0.4	0.6	0.3	0.4	0.5	0.4	0.4
	TC	220	180	280	170	170	180	94	130	79	79	120	130
Mol Khad U/s Palampur	pH	--	7.25	7.88	7.65	7.08	7.34	7.38	7.45	7.28	7.43	7.14	7.7
	DO	--	7.4	7.2	7.4	7.4	7.3	7.2	7.2	7.6	8.2	8.4	8.3

(4025)	BOD	--	0.2	0.2	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.2	0.1
	TC	--	70	180	220	94	170	70	79	79	94	79	70
Mol Khad D/s Palampur (4026)	pH	--	7.31	7.91	7.53	6.94	7.18	7.88	7.38	7.42	7.53	7.02	7.72
	DO	--	7.0	7.3	7.3	7.3	7.2	7.1	7.3	7.3	8.1	8.2	8.2
	BOD	--	0.4	0.2	0.1	0.1	0.3	0.2	0.2	0.3	0.3	0.2	0.3
	TC	--	140	220	280	70	130	120	94	63	79	110	110
Sahu Nallah D/s of Bhuri Singh SHEP	pH	--	8.31	7.76	7.62	7.46	7.72	8.11	7.92	7.81	7.76	7.12	7.42
	DO	--	8.5	8.6	8.7	8.5	8.6	8.7	8.8	8.7	8.5	8.7	8.5
	BOD	--	0.1	0.2	0.3	0.1	0.2	0.4	0.4	0.3	0.3	0.1	0.5
	TC	--	110	170	180	110	130	100	94	63	94	63	110
Sahu Nallah U/s of Bhuri Singh SHEP	pH	--	8.14	7.74	7.81	7.45	7.85	8.17	7.98	7.76	7.88	7.16	7.45
	DO	--	8.6	8.6	8.7	8.6	8.6	8.6	8.8	8.5	8.5	8.7	8.5
	BOD	--	0.1	0.1	0.2	0.1	0.3	0.3	0.2	0.2	0.3	0.3	0.3
	TC	--	79	220	170	94	94	94	110	70	79	84	79
Manjhi Khad U/s Dharamshala at Khaniara	pH	--	--	7.21	7.23	--	--	7.54	7.82	--	7.35	7.58	7.15
	DO	--	--	6.9	6.2	--	--	6.3	6.5	--	7.2	7.1	7.4
	BOD	--	--	0.2	0.1	--	--	0.1	0.3	--	0.2	0.1	0.1
	TC	--	--	--	130	--	--	70	49	--	63	70	140
Manjhi Khad D/s Dharamshala at Chetru	pH	--	--	7.18	7.76	--	--	7.82	7.48	--	7.66	7.63	7.32
	DO	--	--	7.1	6.5	--	--	6.0	6.2	--	7.5	7.6	7.2
	BOD	--	--	0.1	0.1	--	--	0.2	0.2	--	0.3	0.2	0.2
	TC	--	--	--	170	--	--	79	46	--	70	63	170
Swan River B/C of Garni Khad	pH	--	8.26	8.59	7.98	8.21	8.29	8.15	8.16	7.53	--	7.24	7.41
	DO	--	6.7	7.0	6.6	7.8	6.2	7.1	7.1	7.2	--	6.7	7.1
	BOD	--	0.2	0.2	0.1	0.3	0.3	0.2	0.1	0.3	--	0.2	0.2
	TC	--	180	280	140	240	94	94	94	94	--	140	70
Swan River A/C of Garni Khad	pH	--	8.36	8.6	8.02	8.36	8.04	7.86	8.2	7.87	--	7.38	7.83
	DO	--	6.7	7.0	6.6	7.7	6.1	7.1	7.1	7.2	--	6.7	7.1
	BOD	--	0.1	0.2	0.1	0.2	0.3	0.3	0.3	0.2	--	0.3	0.2
	TC	--	170	350	130	94	110	130	79	70	--	150	79

Results of MINARS Points from April-2018 to March- 2019

Name of location	Parameters	Apr-18	Oct-18
Well at Residential Area Kala Amb	pH	8.26	8.32
	DO	---	---
	BOD	0.2	0.1
	TC	1.8	<1.8
Well at Residential Area Paonta Sahib	pH	8.09	7.80
	DO	---	---
	BOD	0.2	0.1
	TC	1.8	<1.8
Well at Industrial Area Kala Amb	pH	8.29	7.72
	DO	---	---
	BOD	0.1	0.2
	TC	3.6	<1.8
Well at Industrial Area Paonta Sahib	pH	7.95	7.94
	DO	---	---
	BOD	0.2	0.2
	TC	3.6	<1.8
Hand Pump at Nahan	pH	7.72	7.90
	DO	---	---
	BOD	0.1	0.1
	TC	1.8	<1.8
Hand Pump at Kala Amb	pH	7.80	7.45
	DO	---	---
	BOD	0.2	0.2
	TC	3.6	<1.8

Results of State Water Quality Monitoring Points from April 2018 to March 2019

Sr. No.	Parameters	Apr.-18	July.-18	Oct.-18	Jan.-19
D/S ACC Bar., River Satluj	pH	7.97	8.55	8.48	8.72
	DO	11.3	10.9	9.2	9.9
	BOD	0.2	0.2	0.1	0.2
	TC	280	170	280	280
R. Suketi U/s of conf. of dregger outfall of SNR Balancing Reservoir	pH	8.25	8.15	8.53	7.72
	DO	8.8	7.7	7.9	9.8
	BOD	0.2	0.1	0.1	1.0
	TC	220	150	210	210
R. Suketi at Dadour Bridge	pH	8.47	8.36	8.74	8.8
	DO	9.4	5.4	7.6	10.9
	BOD	0.6	0.4	0.2	0.8
	TC	920	350	350	>1600
U/s Mandi Suketi Khad	pH	8.55	8.31	8.73	8.34
	DO	7.0	8.7	7.3	7.9
	BOD	0.1	0.2	0.1	0.4
	TC	110	210	210	350
U/s Darang, Salt Mine	pH	8.44	8.54	8.68	8.28
	DO	8.0	7.8	8.5	8.6
	BOD	0.1	0.1	0.1	0.1
	TC	130	110	140	170
D/s Darang, Salt Mine	pH	8.32	7.75	8.72	7.9
	DO	7.7	7.5	8.3	7.8
	BOD	0.1	0.1	0.1	0.1
	TC	140	94	140	210
R. Beas U/s of conf. of envisaged TRT of Uhal-III	pH	8.49	8.48	8.19	8.49
	DO	8.7	9.2	8.7	11.7
	BOD	0.1	0.1	0.1	0.1
	TC	180	130	170	210
R. Beas D/s of conf. of envisaged TRT of Uhal-III	pH	8.31	8.90	8.43	8.58

	DO	9.0	9.0	8.9	10.5
	BOD	0.1	0.1	0.2	0.1
	TC	240	220	210	220
R. Beas D/s of conf. of TRT of Largi HEP power House	pH	7.56	8.07	8.20	7.98
	DO	11.5	8.8	8.8	10.5
	BOD	0.2	0.1	0.1	0.2
	TC	240	210	220	210
R.Beas, U/s Fermenta Biodil	pH	7.83	8.06	8.25	8.15
	DO	11.0	8.5	8.7	9.1
	BOD	0.1	0.2	0.2	0.1
	TC	210	280	240	140
R.Beas, D/s Fermenta Biodil	pH	7.91	8.12	8.15	8.44
	DO	10.5	8.5	8.7	8.5
	BOD	0.2	0.4	0.2	0.1
	TC	350	350	350	170
R. Parvati U/s of Damsite of Parvati-II at Pulga	pH	7.37	8.35	8.13	Sample not received
	DO	8.7	5.9	8.2	
	BOD	0.1	0.1	0.1	
	TC	63	110	120	
R. Parvati D/s of Damsite of Parvati-II at Pulga	pH	7.42	8.31	8.06	8.17
	DO	8.7	6.1	8.2	10.2
	BOD	0.1	0.1	0.1	0.1
	TC	120	120	130	130
River Beas, U/s WPF Manali	pH	7.97	7.97	7.80	7.99
	DO	10.5	8.5	7.6	11.1
	BOD	0.1	0.1	0.2	0.3
	TC	110	150	280	350
River Beas, D/s WPF Manali	pH	7.74	8.00	7.98	8.03
	DO	10.2	8.2	7.6	11.2
	BOD	0.4	0.4	0.2	0.3
	TC	220	430	430	540
River Beas, D/s of conf. with Allaign Nalla	pH	7.73	8.23	8.09	8.04
	DO	10.5	8.5	7.5	11.0

	BOD	0.1	0.1	0.1	0.2
	TC	94	210	210	350
Allaign Nalla before conf. with R. Beas	pH	7.75	7.96	8.2	8.19
	DO	9.0	8.9	5.0	11.0
	BOD	0.1	0.1	0.1	0.1
	TC	140	150	170	170
River Beas, D/s of conf. with Dohangan Nalla	pH	8.12	7.59	8.18	7.21
	DO	9.8	8.3	7.7	11.6
	BOD	0.1	0.1	0.1	0.2
	TC	180	170	280	240
Dohangan Nalla before confluence to R. Beas	pH	8.20	7.82	7.23	7.51
	DO	8.9	8.8	7.5	10.9
	BOD	0.1	0.1	0.1	0.1
	TC	120	140	180	150
River Beas, U/s of conf. of R. Parvati	pH	7.90	7.99	7.75	8.00
	DO	9.1	8.1	8.5	10.3
	BOD	0.1	0.1	0.1	0.2
	TC	170	220	220	540
River Beas, D/s of conf. of R. Parvati	pH	7.91	8.03	7.93	8.27
	DO	9.0	8.3	8.7	9.2
	BOD	0.2	0.1	0.1	0.2
	TC	280	240	180	430
River Beas, U/s WPF Kullu	pH	7.68	8.43	7.96	8.31
	DO	9.2	8.2	8.6	9.5
	BOD	0.2	0.2	0.2	0.2
	TC	210	280	170	280
River Beas, D/s WPF Kullu	pH	7.89	8.40	7.90	8.27
	DO	9.1	8.1	8.5	9.2
	BOD	0.4	0.4	0.4	0.2
	TC	350	350	240	430
R. Sainj U/s Envisaged Power House Site of Parvati-II	pH	7.73	8.06	8.11	8.49
	DO	9.7	8.7	8.9	11.5

	BOD	0.1	0.1	0.1	0.1
	TC	110	170	220	170
R. Sainj D/s Envisaged Power House Site of Parvati-II	pH	7.95	7.97	8.19	8.25
	DO	9.6	8.7	8.9	11.5
	BOD	0.1	0.1	0.1	0.1
	TC	130	240	280	220
R. Sainj U/s Envisaged Power House Site of Parvati-III	pH	8.04	8.05	8.15	8.13
	DO	9.5	8.3	8.9	11.2
	BOD	0.1	0.1	0.1	0.1
	TC	180	220	150	150
R. Sainj D/s Envisaged Power House Site of Parvati-III	pH	8.38	8.09	8.23	7.99
	DO	9.3	8.2	8.9	11.2
	BOD	0.1	0.2	0.1	0.1
	TC	240	280	210	170
Spring Source ,Bheuli	pH	8.53	8.56	8.24	7.92
	DO	--	--	--	--
	BOD	0.1	NIL	0.1	NIL
	TC	<1.8	<1.8	<1.8	<1.8
Hand Pump SunderNagar	pH	8.14	8.53	8.44	7.35
	DO	--	--	--	--
	BOD	0.1	NIL	0.1	NIL
	TC	<1.8	<1.8	<1.8	<1.8
Hand Pump Ghumarvin Town	pH	8.62	8.23	8.64	8.19
	DO	--	--	--	--
	BOD	0.1	NIL	0.1	NIL
	TC	<1.8	<1.8	<1.8	<1.8
Spring Source Sungal	pH	7.96	8.61	8.56	8.55
	DO	--	--	--	--
	BOD	0.1	NIL	0.1	NIL
	TC	<1.8	<1.8	<1.8	<1.8
Hand Pump Vill. Upper Badah	pH	8.55	Source Dried	8.59	8.08
	DO	--		--	--
	BOD	0.1		0.1	NIL

	TC	<1.8		<1.8	<1.8
Hand Pump Raison	pH	8.29	8.33	8.71	8.17
	DO	--	--	--	--
	BOD	0.1	NIL	0.1	NIL
	TC	<1.8	<1.8	<1.8	<1.8
Hand Pump Rangree,opposite to Hotel River Crescent	pH	Source Dried	Handpump Dismantled	Sample not received	Sample not received
	DO				
	BOD				
	TC				
Ground Water of Tikker Boari	pH	8.51	8.32	8.48	7.98
	DO	--	--	--	--
	BOD	0.1	NIL	0.1	NIL
	TC	<1.8	<1.8	<1.8	<1.8
River Yamuna U/S of Ranbaxy Paonta Sahib	pH	8.10	7.41	7.95	7.94
	DO	7.9	7.5	7.3	7.7
	BOD	0.2	0.3	0.2	0.3
	TC	20.0	20.0	20.0	26.0
River Yamuna D/S of Ranbaxy Paonta Sahib	pH	8.12	7.57	8.13	8.02
	DO	7.8	7.5	7.3	7.7
	BOD	0.3	0.3	0.4	0.4
	TC	21.0	22.0	22.0	33.0
River Yamuna U/S of landfill site Paonta Sahib	pH	7.80	7.49	8.15	7.92
	DO	7.6	7.4	7.2	7.6
	BOD	0.3	0.2	0.2	0.2
	TC	27.0	24.0	26.0	32.0
River Yamuna D/S of landfill site Paonta Sahib	pH	7.94	7.30	8.00	7.83
	DO	7.2	7.2	7.2	7.6
	BOD	0.6	0.4	0.6	2.0
	TC	40.0	25.0	48.0	58.0
River Markanda U/S of Markanda Bridge Kala Amb	pH	7.68	7.73	7.98	7.98
	DO	7.4	6.7	7.4	7.7
	BOD	0.4	0.4	0.4	0.3
	TC	27.0	26.0	26.0	31.0
River Markanda U/S of Jattanwala Nallah	pH	7.94	7.7	8.16	8.02
	DO	7.6	6.7	7.4	7.6
	BOD	0.4	0.4	0.6	0.4
	TC	26.0	27.0	27.0	40.0
Jattanwala Nallah	pH	7.59	7.95	7.52	6.95
	DO	Nil	1.1	1.9	2.0
	BOD	160.0	20.0	140.0	120.0
	TC	>1600	>1600	>1600	>1600
D/S Jattanwala Nallah	pH	7.71	7.52	7.44	7.08
	DO	Nil	4.4	2.8	1.8
	BOD	46.0	8.0	40.0	32.0
	TC	>1600	>1600	>1600	>1600
River Sirsa D/S Sitomajri Nallah	pH	7.83	7.98	7.56	7.72
	DO	6.2	5.2	6.6	8.9
	BOD	6.0	5.2	5.2	5.8

	TC	46	48	48	40
River Bald U/s Land fill site Baddi	pH	7.27	8.15	8.02	7.25
	DO	5.1	4.2	5.1	4.2
	BOD	6.0	9.0	9.2	6.2
	TC	70	110	47	38
River Bald D/s Land fill site Baddi	pH	7.5	7.6	7.6	_
	DO	4.8	2.6	5.2	_
	BOD	10.0	14.0	14.0	_
	TC	94	280.0	94.0	_
River Sirsa U/s Sandholi Nallaha	pH	7.64	8.15	6.89	7.66
	DO	5.4	5.7	6.6	7.9
	BOD	12	16	16.0	5.2
	TC	>1600	350.0	140	48
Sandholi Nallaha	pH	7.47	7.07	8.09	7.15
	DO	1.2	4.2	5.2	4.8
	BOD	18	28	28	240
	TC	>1600	>1600	>1600	>1600
River Sirsa D/s Sandholi Nallah	pH	7.63	8.2	7.04	7.7
	DO	3.0	4.6	6.0	8.2
	BOD	14	20	20	40
	TC	>1600	>1600	>1600	170
River Sirsa U/s H. Board Nallah	pH	7.64	7.9	7.64	7.7
	DO	4.0	4.7	6.2	7.5
	BOD	10.0	12.0	12.0	20.0
	TC	540	540	540	150
River Sirsa D/s H. Board Nallah	pH	7.54	6.96	6.83	7.65
	DO	3.9	3.8	5.8	7.0
	BOD	12.0	16.0	16.0	21.0
	TC	920	430.0	920	220
Housing Board Nallah	pH	7.65	7.22	7.24	7.28
	DO	1.5	4.8	5.9	3.0
	BOD	22	14	14	22
	TC	>1600	350	>1600	>1600
River Ratta Before confl. To River Sirsa	pH	7.04	7.54	7.35	7.59
	DO	4.6	6.1	6.2	7.9
	BOD	3.2	6	6.0	2.0
	TC	38	41	26	32
River Sirsa U/S River Ratta	pH	7.4	7.81	7.84	7.9
	DO	3.9	2.3	6.5	8.3
	BOD	4.0	3.2	3.2	7.0
	TC	40	39.0	21	170
River Sirsa D/s River Ratta	pH	7.28	7.72	7.72	7.63
	DO	5.2	3.1	6.4	8.5
	BOD	10.0	3.8	3.8	8.0
	TC	>1600	48	26	120
U/s TSDF site at Majra (Well)	pH	7.5	7.26	8.14	7.54
	DO	_	_	_	_
	BOD	2.4	1.8	1.2	0.1
	TC	17	10	10	1.8
D/s TSDF site at Majra (Well)	pH	7.64	7.73	8.09	7.98
	DO	_	_	_	_
	BOD	3.2	1.8	0.8	0.1
	TC	26	12	12	<1.8
Gullerwala Nallah	pH	7.78	7.08	7.56	6.68
	DO	5.1	5.4	5.8	2.3

	BOD	2.0	21.0	4.0	8.0
	TC	25	25	49	120.0
Manpura Nallah	pH	_	7.43	7.46	7.57
	DO	_	5.3	5.8	5.2
	BOD	_	58.0	58.0	16.0
	TC	_	>1600	94	220
River Sirsa D/sManpura Nallah	pH	7.16	7.13	7.13	8.09
	DO	4.7	4.9	6.6	9.0
	BOD	8.0	40	40.0	6.0
	TC	43	>1600	84	130
River Sirsa U/sManpura Nallah	pH	7.67	6.76	7.41	7.89
	DO	4.8	6.4	6.3	7.0
	BOD	3.2	48	48.0	4.8
	TC	31	70	70	94
River Sirsa U/S Khera Nallah	pH	7.5	7.96	7.9	_
	DO	4.3	5.5	5.9	_
	BOD	8.0	10.0	10.0	_
	TC	58	>1600	70.0	_
River Sirsa D/S Khera Nallah	pH	7.55	8.0	8.13	7.94
	DO	3.1	5.3	6.2	7.5
	BOD	12	8.0	8.0	2.4
	TC	94	70	130	49.0
Khera Nallaha	pH	7.42	7.96	7.86	7.68
	DO	3.8	9.2	5.4	4.6
	BOD	10	12	12	8
	TC	79	110	170	70
Well of Sh. Gurubaskh Vill. Majra	pH	7.95	7.43	8.44	7.9
	DO	_	_	_	_
	BOD	0.4	1.8	1.8	0.2
	TC	<1.8	<1.8	<1.8	<1.8
Well at house of sh.Rana	pH	7.74	7.32	8.6	7.84
	DO	_	_	_	_
	BOD	0.5	0.8	0.8	0.2
	TC	<1.8	<1.8	<1.8	<1.8
Well at house of sh. Gurudyal	pH	8.07	8.26	7.86	8.06
	DO	_	_	_	_
	BOD	1.2	2.0	2.0	0.2
	TC	10	<1.8	<1.8	<1.8
Handpump at house of sh. Balvinder, Vill. Majra	pH	8.08	7.55	8.9	7.28
	DO	_	_	_	_
	BOD	0.6	1.0	0.4	0.1
	TC	<1.8	<1.8	<1.8	<1.8
Kaushlya River U/s Parwanoo Town	pH	7.92	7.47	_	8.29
	DO	7.0	7.0	_	7.5
	BOD	1.2	2.4	_	0.6
	TC	40	26	_	32.0
Kaushlya River D/s Intake Channel of WSS Parwanoo Town	pH	7.88	7.54	_	8.32
	DO	7.5	7.2	_	7.4
	BOD	2.0	2.8	_	1.0
	TC	48	24	_	33
Masulkhana Nallah U/S Morepen Lab	pH	7.63	7.51	_	_
	DO	7.9	7	_	_
	BOD	0.4	0.8	_	_
	TC	2	6.1	_	_
Masulkhana Nallah D/S	pH	7.67	8.11	_	_

Morepen Lab	DO	7.3	6.8	_	_
	BOD	10	6.0	_	_
	TC	110	38	_	_
Handpump at Sec 1 Near Shivalik Hotel	pH	8.49	_	_	_
	DO	_	_	_	_
	BOD	0.4	_	_	_
	TC	<1.8	_	_	_
Handpump at BCI Bearing	pH	8.19	_	_	_
	DO		_	_	_
	BOD	0.2	_	_	_
	TC	<1.8	_	_	_
River Ashwani at Sadhupul near bridge	pH	_	_	_	8.1
	DO	_	_	_	7.9
	BOD	_	_	_	0.8
	TC	_	_	_	22
River Ashwani at Yashwant nagar before conf River Giri	pH	_	_	_	8.07
	DO	_	_	_	8
	BOD	_	_	_	0.4
	TC	_	_	_	26
River Giri at yashwant nagar before conf of river Ashwani	pH	_	_	_	7.2
	DO	_	_	_	7.5
	BOD	_	_	_	0.4
	TC	_	_	_	20
River Giri after conf with River Ashwani at Vill Maryog	pH	_	_	_	8.01
	DO	_	_	_	7.8
	BOD	_	_	_	1.2
	TC	_	_	_	34.0
Ashwani River U/S Vill Sadhupul	pH	_	_	_	7.46
	DO	_	_	_	6.5
	BOD	_	_	_	0.4
	TC	_	_	_	32
Ashwani River D/S Vill Sadhupul	pH	_	_	_	6.96
	DO	_	_	_	6.5
	BOD	_	_	_	0.2
	TC	_	_	_	17
Nallah Near Ambota Shivloti Temple	pH	7.71	7.48	_	8.42
	DO	8.5	8.6	_	8.2
	BOD	0.2	2	_	0.1
	TC	8.3	4	_	4.0
Nallah from M/S Base Coorption At WSS Galyana	pH	_	_	_	7.32
	DO	_	_	_	7.3
	BOD	_	_	_	1.2
	TC	_	_	_	24
R Satluj U/s conf. with R. Tidong	pH	7.58	8.51	7.69	7.46
	DO	_	9.4	9.8	8.6
	BOD	3.6	2.8	1.0	1.9
	TC	_	9.2	170	210
River Tidong before Confluence with River Satluj	pH	8.1	8.44	7.96	7.36
	DO	_	9.1	9.6	9.5
	BOD	3.2	2.8	0.6	1.2

	TC	_	14	170	150
River Satluj D/s Confluence With River Tidong	pH	7.65	8.52	7.77	7.35
	DO	_	9.4	9.8	8.7
	BOD	4.0	0.9	1.2	1.0
	TC	_	12	210	170
River Satluj U/s Confluence With Ganvi Khad	pH	7.57	8.54	7.71	6.71
	DO	_	9.2	9.6	8.4
	BOD	2.4	1.0	1.1	0.8
	TC	_	31	220	170
Ganvi Khad Before confluence with River Satluj	pH	7.54	8.55	7.82	7.24
	DO	_	8.8	9.3	9.0
	BOD	2.8	0.2	0.3	0.7
	TC	_	84	280	210
River Satluj D/s Confluence With Ganvi Khad	pH	7.41	8.50	7.62	7.06
	DO	_	9.2	9.5	8.7
	BOD	3.2	1.4	0.7	0.6
	TC	_	38	430	350
River Satluj U/s Confluence With Sorang Khad	pH	7.66	8.50	7.71	7.36
	DO	_	8.6	9.5	8.6
	BOD	4.0	0.3	1.6	2.4
	TC	_	39	220	140
River Sorang Before confluence to River Satluj	pH	7.39	8.50	7.84	7.81
	DO	_	8.7	9.7	9.2
	BOD	2.8	0.1	1.1	0.4
	TC	_	70	150	140
River Satluj D/s Confluence With Sorang Khad	pH	7.12	8.50	7.72	7.44
	DO	_	8.7	9.6	8.7
	BOD	3.2	0.1	0.8	1.4
	TC	_	39	280	150
R Satluj U/s TRT of NJPC	pH	7.62	8.52	7.49	7.20
	DO	_	9.2	9.7	8.5
	BOD	0.2	1.6	0.9	1.4
	TC	_	22	210	220

R Satluj D/s TRT of NJPC	pH	7.50	8.54	7.91	7.23
	DO	_	9.1	9.7	8.6
	BOD	0.1	0.6	0.7	1.2
	TC	_	33	150	170
River Satluj D/s NJPC Dam at Nathpa	pH	7.66	8.39	7.78	7.27
	DO	_	8.9	9.6	8.5
	BOD	2.4	0.9	0.7	1.0
	TC	_	41	210	150
Baspa River at Baspa Project	pH	7.84	8.50	8.12	7.52
	DO	_	8.9	9.7	9.4
	BOD	2.0	1.6	1.0	1.3
	TC	_	84	83	84
River Baspa D/s Reservoir at Kuppa	pH	7.8_	8.33	8.16	7.50
	DO	--	9.1	9.7	9.4
	BOD	3.2	1.0	0.4	0.9
	TC	--	110	49	48
R Satluj U/s landfill site of Rampur	pH	7.56	8.51	7.72	5.86
	DO	_	9.0	9.6	8.4
	BOD	0.2	1.0	0.7	0.7
	TC	_	120	430	350
R Satluj D/s landfill site of Rampur	pH	7.34	8.52	7.85	7.29
	DO	_	9.0	9.5	8.4
	BOD	0.2	0.4	0.4	0.5
	TC	_	150	540	350
River Satluj D/s Dutt nagar D/s envisaged conf. of TRT of RHEP	pH	7.65	8.50	7.79	7.31
	DO	_	8.9	9.4	8.5
	BOD	0.3	0.5	0.9	0.5
	TC	_	140	170	49
River Pabbar D/s Chirgaon	pH	8.03	7.04	7.99	6.79
	DO	9.3	9.3	9	10.2
	BOD	2.4	0.6	0.4	1.2
	TC	12	40	48	26

River Pabbar D/s Rohroo	pH	7.55	7.30	7.91	8.31
	DO	9.0	8.0	8	10.5
	BOD	2.0	0.5	1.1	1.0
	TC	21	140	170	58
River Pabbar D/s Hatkoti	pH	8.5	7.42	7.7	7.47
	DO	1.4	8.3	8.0	10.0
	BOD	25	0.8	1.2	1.0
	TC	8.5	39	110	63
Gumma Khud U/s Chaila	pH	7.4	7.51	7.76	8.23
	DO	8.4_	8.5	8.2	10.1
	BOD	2.0	0.4	1.3	1.2
	TC	14	170	210	47
Lift Nala D/s Hotel Combermere	pH	7.49	7.02	7.15	7.06
	DO	8.5	7.58	5.6	5.3
	BOD	10	2	6.4	18.0
	TC	210	920	350	>1600
Lift Nala U/s Bridge at By pass near MSW Processing site	pH	7.85	7.71	7.21	7.05
	DO	4.2	7.2	5.4	5.2
	BOD	12	1.6	6.7	22.0
	TC	280	540	540	>1600
U/s of weir site of WTP near Ashwani Khud.	pH	8.01	7.58	7.54	6.51
	DO	8.1	6.3	7	8.2
	BOD	2	1.6	2.8	8.0
	TC	40	32	350	170
D/s Ashwani Khad after confulence of lift nala	pH	8.12	7.93	7.75	6.9
	DO	7.4	5.2	6.8	7.7
	BOD	2.8	2.0	1.9	12.0
	TC	46	39	280	210
Ground water at Totu	pH	7.51	7.50	7.95	7.62
	DO	–	–	–	–
	BOD	0.8	0.3	0.4	0.4
	TC	<1.8	<1.8	<1.8	<1.8
Hand Pump Recong Peo	pH	_	_	_	7.56

	DO	_	_	_	8.7
	BOD	_	_	_	0.2
	TC	_	_	_	<1.8
River Ravi U/S Land Fill Site Chamba	pH	7.08	7.61	7.58	7.97
	DO	8.80	8.70	8.7	8.6
	BOD	0.20	0.30	0.3	0.2
	TC	110	170	110	63
River Ravi D/S Land Fill Site Chamba	pH	7.27	7.55	7.84	7.96
	DO	8.6	8.6	8.6	8.5
	BOD	0.2	0.4	0.4	0.5
	TC	140	110	100	110
River Ravi before conf. with River Baira	pH	7.66	7.55	7.46	7.89
	DO	8.6	8.7	8.7	8.7
	BOD	0.10	0.2	0.2	0.4
	TC	130	110	100	63
Bhiral Khad D/S STP Palampur	pH	7.10	--	7.25	7.68
	DO	7.50	--	7.0	7.4
	BOD	0.30	--	0.1	0.4
	TC	--	--	110	94
Bhiral Khad U/S STP Palampur	pH	7.13	--	7.22	7.61
	DO	7.50	--	7.1	7.5
	BOD	0.20	--	0.2	0.2
	TC	--	--	94	110
River Ravi after conf. with Baira River	pH	7.61	--	7.68	7.81
	DO	8.80	--	8.6	8.6
	BOD	0.20	--	0.4	0.2
	TC	140	--	140	94
River Ravi D/S Dam of Chamera-I HEP	pH	7.68	7.52	7.78	7.92
	DO	8.70	8.8	8.7	8.7
	BOD	0.20	0.2	0.3	0.3
	TC	180	280	79	63
River Ravi D/S TRT Power House -I HEP	pH	7.76	7.56	7.96	7.96
	DO	8.80	8.9	8.8	8.7
	BOD	0.10	0.1	0.2	0.2
	TC	140	180	70	46
River Baira before conf. with River Ravi	pH	7.45	7.3	7.96	7.95
	DO	8.70	8.6	8.6	8.6
	BOD	0.30	0.2	0.2	0.4
	TC	110	180	140	70
Chounch Khad D/s Ind. Area Bain Attarian	pH	--	--	8.21	7.98
	DO	--	--	6.2	6.8
	BOD	--	--	0.4	0.5
	TC	--	--	--	110
Chounch Khad U/s Ind. Area Bain Attarian	pH	--	--	8.16	7.78
	DO	--	--	6.8	6.9
	BOD	--	--	0.2	0.3
	TC	--	--	--	94
River Satluj U/S Bhakhra	pH	8.03	7.02	7.74	--
	DO	7.10	6.7	7.1	--
	BOD	0.30	0.3	0.1	--
	TC	140	220	94	--
River Swan U/S MSW	pH	8.42	7.47	8.02	--

landfill Santokhgarh	DO	6.60	6.20	6.9	--
	BOD	0.40	0.10	0.4	--
	TC	220	240	130	--
River Swan D/S MSW land fill Santokhgarh	pH	8.46	7.68	7.96	--
	DO	6.00	6.00	6.8	--
	BOD	0.40	0.1	0.3	--
	TC	240	280	63	--
River Baira U/S of Dam on Baira siul HEP	pH	7.50	7.35	--	7.85
	DO	8.80	8.7	--	8.7
	BOD	0.20	0.1	--	0.2
	TC	140	170	--	63
River Baira D/S Dam on Bairasiul HEP	pH	7.64	7.08	--	7.88
	DO	8.70	8.6	--	8.7
	BOD	0.40	0.1	--	0.3
	TC	110	140	--	79
River Siul U/S Dam of Siul for BSHEP	pH	7.65	7.07	7.78	--
	DO	8.80	8.7	8.9	--
	BOD	0.10	0.1	0.2	--
	TC	140	220	130	--
River Siul D/S Dam of Siul for BSHEP	pH	7.64	7.16	7.68	--
	DO	8.80	8.7	8.9	--
	BOD	0.20	0.2	0.4	--
	TC	170	170	170	--
Baled Khad U/S of Dam on Baled for BSHEP	pH	7.48	7.23	8.06	7.75
	DO	8.70	8.9	8.7	8.8
	BOD	0.30	0.1	0.2	0.2
	TC	110	170	70	70
Bhaled Khad D/S Dam on Baled for BSHEP	pH	7.25	7.34	7.98	7.82
	DO	8.70	8.9	8.7	8.8
	BOD	0.10	0.2	0.3	0.3
	TC	180	220	94	94
River Baira before conf. of TRT of BSHEP	pH	7.60	7.32	7.64	7.5
	DO	8.80	8.8	8.6	8.7
	BOD	0.20	0.1	0.2	0.2
	TC	170	240	63	79
River Baira after conf. of TRT of BSHEP	pH	7.62	7.29	7.86	7.62
	DO	8.60	8.7	8.5	8.6
	BOD	0.10	0.2	0.3	0.3
	TC	130	180	79	110
River Ravi U/S Chamera - II	pH	7.34	7.6	7.68	7.64
	DO	8.70	8.7	8.5	8.7
	BOD	0.20	0.1	0.1	0.2
	TC	130	110	79	79
River Ravi D/S Chamera - II	pH	7.30	7.62	7.76	7.45
	DO	8.70	8.6	8.6	8.7
	BOD	0.20	0.2	0.3	0.3
	TC	130	180	70	94
River Ravi U/S of Conf. of Budhil Nallah	pH	7.47	7.69	7.78	7.82
	DO	8.60	8.7	8.8	8.7
	BOD	0.20	0.1	0.2	0.2
	TC	110	170	63	63
Budhil Nallah U/S Dam of Budhil HEP	pH	7.24	7.92	7.68	--
	DO	8.60	8.7	8.6	--
	BOD	0.20	0.1	0.3	--
	TC	280	180	110	--

Budhil Nallah D/S Dam of Budhil HEP	pH	7.51	7.92	7..64	--
	DO	8.70	8.8	8.7	--
	BOD	0.20	0.2	0.2	--
	TC	110	140	70	--
River Ravi D/S TRT of proposed Budhil HEP	pH	7.53	7.83	7.79	7.88
	DO	8.60	8.6	8.7	8.6
	BOD	0.20	0.1	0.4	0.3
	TC	140	110	79	70
River Beas U/S Pong Dam	pH	7.74	--	--	7.5
	DO	7.20	--	--	8.9
	BOD	0.20	--	--	0.2
	TC	180	--	--	--
U/S Swan Khad IA Sansarpur Terrace	pH	--	--	--	7.58
	DO	--	--	--	7.3
	BOD	--	--	--	0.2
	TC	--	--	--	110
D/S Swan Khad IA Sansarpur Terrace	pH	7.82	--	--	7.24
	DO	6.20	--	--	7.2
	BOD	0.40	--	--	0.5
	TC	220	--	--	130
Lund Khad U/s STP Jawalamukhi	pH	7.58	--	8.25	7.63
	DO	7.60	--	7.1	7.8
	BOD	0.20	--	0.3	0.3
	TC	--	--	110	49
Lund Khad D/s STP Jawalamukhi	pH	7.56	--	8.38	7.81
	DO	7.70	--	7.0	7.4
	BOD	0.20	--	0.5	0.4
	TC	--	--	140	63
Baner Khad U/s STP TMC	pH	7.56	--	7.67	7.92
	DO	7.30	--	7.3	8.1
	BOD	0.20	--	0.3	0.2
	TC	--	--	94	79
Baner Khad D/s STP TMC	pH	7.62	--	7.76	7.86
	DO	7.40	--	7.1	8.3
	BOD	0.30	--	0.5	0.3
	TC	--	--	79	70
Charan Khad U/S STP Dharamshala	pH	7.29	--	7.93	7.38
	DO	7.30	--	7.1	7.4
	BOD	0.20	--	0.3	0.2
	TC	--	--	94	--
Charan Khad D/S STP Dharamshala	pH	7.50	--	7.88	7.68
	DO	7.20	--	7.1	7.2
	BOD	0.20	--	0.2	0.3
	TC	--	--	110	--
Dal Lake Naddi	pH	7.04	--	7.44	7.06
	DO	7.90	--	7.3	8.1
	BOD	0.30	--	0.7	0.4
	TC	220	--	110	--