

Department Water & Sanitation
 Quarterly Water Quality Status of the Klip River Catchment

01 Jul 2013 - 30 Jun 2014



Sample Points	Sample Point Description	Aluminium	Ammonia	Chemical Oxygen Demand	Chloride	Conductivity	Daphnia Toxicity	Dissolved Oxygen	E.coli	Fluoride	Iron	Magnesium	Manganese	Nitrate	pH	Phosphate	Sodium	Sulphate	Suspended Solids
K1	Klip River @ Lido Hotel S26.326 E27.988	<0.01	0.61		42	55		5.2		0.24	0.03	12	0.16	3.50	7.4	0.30	38	83	
		<0.01	2.00		37	56		4.2		0.21	0.05	12	0.25	2.40	7.4	0.74	38	73	
		0.01	0.40		28	50		5.5		0.28	0.03	14	0.37	2.10	7.5	0.32	33	73	
		0.02	0.67		45	54		6.8		0.23	0.05	15	0.44	3.80	7.5	0.44	46	88	
K10	Klip River @ Everite S26.421 E28.095	0.01	0.35		59	55		6.7		0.29	0.04	12	0.14	3.20	7.6	0.33	40	85	
		<0.01	1.40		36	57		5.5		0.21	0.05	12	0.19	2.80	7.5	0.69	38	72	
		0.05	0.25		28	49		5.3		0.31	0.04	14	0.22	2.10	7.6	0.36	32	68	
		0.02	0.43		45	59		8.8		0.26	0.07	15	0.29	4.00	7.6	0.33	46	88	
K11	Klip River from Roodepoort @ R41 Bridge S26.169 E27.833	<0.01	0.10		26	31		7.0		0.19	0.06	9	0.07	1.10	7.2	0.08	14	86	
		0.02	0.36		12	34		5.8		0.21	0.08	9	0.09	0.53	7.2	0.22	13	64	
		0.03	0.73		14	31		6.2		0.39	0.05	9	0.40	0.41	7.4	0.10	14	46	
		0.04	2.60		23	41		9.6		0.22	0.08	12	0.32	1.10	7.4	0.21	23	89	
K14	Klip River from Witpoortjie @ R41 Bridge S26.176 E27.818	<0.01	0.18		18	20		5.7		0.19	0.05	3	0.02	1.40	7.0	0.08	17	50	
		<0.01	0.28		14	26		6.3		0.16	0.12	4	0.02	1.40	7.1	0.22	18	14	
		0.01	0.52		16	22		5.8		0.40	0.21	4	0.21	1.10	7.1	0.10	17	35	
		0.03	0.22		14	18		9.1		0.16	0.13	3	0.08	0.54	7.0	0.10	15	24	
K18	Klip River Weir @ Henley-On-Klip S26.549 E28.064	0.01	0.61		50	65		5.7	3,540	0.26	0.04	14	0.19	4.80	7.5	0.32	46	100	
		<0.01	0.62		42	64		3.9	12,540	0.26	0.05	15	0.33	2.90	7.4	0.52	51	105	
		0.03	0.25		36	59		4.8	16,180	0.31	0.06	16	0.19	2.30	7.6	0.36	40	90	
		0.02	0.22		58	65		8.2	1,310	0.32	0.03	17	0.20	4.90	7.6	0.34	56	120	
K19	Klip River Weir @ Redan Train Bridge S26.620 E27.981	0.28	0.37	25	53	64	100	5.9	1,410	0.24	0.08	14	0.12	4.10	7.6	0.35	44	93	34
		<0.01	0.60	27	51	66	100	4.3	11,370	0.28	0.03	16	0.18	3.60	7.5	0.64	49	110	62
		0.02	0.24	22	42	59	98	5.8	14,320	0.31	0.03	17	0.16	2.80	7.7	0.35	43	105	88
		0.02	0.23	22	54	66	98	7.4	2,740	0.29	0.06	18	0.13	4.50	7.6	0.39	54	111	26
K21	Klip River Weir @ Zwartkopjes Farm S26.380 E28.071	0.02	0.45	22	43	54	100	6.5	14,390	0.21	0.04	13	0.16	3.40	7.5	0.38	40	76	27
		<0.01	1.30	23	36	57	100	5.6	65,700	0.20	0.04	13	0.36	2.90	7.3	0.66	36	87	71
		0.02	0.24	19	39	51	98	6.1	7,710	0.26	0.05	14	0.33	2.80	7.5	0.37	35	87	65
		0.02	0.34	21	45	55	100	7.5	1,730	0.25	0.04	14	0.28	3.50	7.6	0.38	44	87	18
K25	Klip River downstream of Rietspruit Confluence S26.454 E28.085	0.02	0.67		61	64		5.7	6,780	0.22	0.04	15	0.17	4.10	7.5	0.31	50	145	
		<0.01	1.10		50	65		4.6	31,250	0.28	0.05	14	0.24	3.40	7.5	0.55	49	100	
		0.06	0.25		40	57		4.6	8,100	0.24	0.08	15	0.22	2.40	7.7	0.34	39	94	
		0.02	0.28		53	66		7.4	1,740	0.28	0.08	16	0.24	4.10	7.6	0.31	52	117	
K3	Harringtonspruit @ Nancefield Industrial Area S26.310 E27.912	<0.01	0.90		37	54		5.5		0.28	0.02	8	0.02	2.20	7.5	0.59	36	62	
		<0.01	0.85		49	54		5.5		0.24	0.04	9	0.04	1.60	7.5	0.59	48	49	
		0.01	0.69		48	52		6.6		0.24	0.09	11	0.19	2.90	7.5	0.78	44	53	
		0.03	0.69		53	54		7.8		0.26	0.05	10	0.06	1.60	7.4	0.57	52	64	
K4	Klip River @ Olifantsvlei Sewage Works S26.337 E27.903	<0.01	0.29		35	51		5.6	3,490	0.27	0.02	12	0.22	3.00	7.6	0.21	37	74	
		0.01	2.40		31	52		5.4	4,760	0.24	0.04	13	0.64	2.00	7.4	0.30	35	81	
		0.01	0.25		31	48		6.3	2,040	0.24	0.03	13	0.38	2.40	7.6	0.32	33	57	
		0.02	1.30		36	53		8.2	1,390	0.27	0.05	15	0.81	3.30	7.6	0.28	41	90	
K5	Klipspruit @ Kliptown S26.290 E27.886	<0.01	7.20		32	58		5.8		0.27	0.05	14	1.40	1.40	7.5	0.18	28	85	
		<0.01	5.70		28	58		5.1		0.32	0.07	14	0.96	0.75	7.2	0.28	27	96	
		0.01	4.60		25	59		5.3		0.22	0.04	17	2.10	1.40	7.0	0.15	26	150	
		0.02	8.80		34	60		8.0		0.28	0.23	17	1.10	0.77	7.4	0.13	34	123	
K6	Klip River @ Soweto N12 Highway S26.295 E27.837	<0.01	0.54		27	52		5.2		0.28	0.02	18	0.31	2.00	7.5	0.24	23	89	
		<0.01	1.10		20	56		2.4		0.26	0.03	18	0.85	1.30	7.5	0.33	30	68	
		0.01	1.20		23	50		3.1		0.21	0.05	17	0.48	1.10	7.6	0.44	32	70	
		0.01	2.10		25	54		6.3		0.25	0.07	19	0.28	1.90	7.4	0.31	26	113	
E17	Elsburgspruit @ Heidelberg Road S26.276 E28.202	1.70	3.60		78	94		6.0	10,070	0.32	3.30	32	6.30	0.72	7.4	0.06	40	305	
		0.02	4.00		28	88		4.9	31,490	0.37	0.04	19	1.20	0.45	7.1	0.18	36	265	
		0.02	3.70		48	72		2.3	204,870	0.40	0.12	18	1.40	0.99	7.2	0.17	46	210	
		0.03	4.90		51	96		4.2	28,920	0.32	0.18	26	1.90	0.53	7.2	0.20	54	306	
E2	Stream @ Witwatersrand Gold Mine S26.195 E28.190	0.02	3.60		24	77		4.5		0.28	0.22	10	0.57	0.66	7.4	0.23	36	135	
		0.06	6.70		34	110		2.4		0.41	0.16	6	0.21	0.13	7.3	0.32	29	240	
		0.02	3.40		19	32		3.5		0.31	0.16	7	0.27	0.45	7.0	0.55	22	70	
		0.02	1.20		23	29		7.6		0.25	0.14	8	0.31	0.95	7.0	0.13	17	35	

Department Water & Sanitation
 Quarterly Water Quality Status of the Klip River Catchment

01 Jul 2013 - 30 Jun 2014



Sample Points	Sample Point Description	Aluminium	Ammonia	Chemical Oxygen Demand	Chloride	Conductivity	Daphnia Toxicity	Dissolved Oxygen	E.coli	Fluoride	Iron	Magnesium	Manganese	Nitrate	pH	Phosphate	Sodium	Sulphate	Suspended Solids
E7	Elsburgspruit @ Elsburg Town S26.250 E28.204	0.02	6.80		38	105		5.8		0.21	0.10	21	2.30	1.00	7.2	0.07	48	325	
		0.02	6.00		24	105		5.0		0.29	0.03	17	1.30	0.57	6.9	0.18	42	380	
		0.01	4.60		32	73		4.4		0.39	0.09	17	1.20	0.46	7.1	0.24	35	250	
E8	Stream @ Elspark S26.262 E28.222	0.06	6.90		42	91		5.8		0.27	0.28	22	1.80	0.29	7.1	0.18	47	283	
		<0.01	0.62		42	90		8.4		0.25	0.04	38	0.37	0.75	7.5	0.26	41	350	
		<0.01	0.26		29	70		6.8		0.40	0.02	27	0.10	0.66	7.3	0.19	31	260	
N4	Natsalspruit from Simmer and Jack Mine S26.240 E28.124	<0.01	0.22		30	68		7.2		0.44	0.04	32	0.51	0.74	7.6	0.10	35	225	
		<0.01	1.00		55	110		9.6		0.29	0.03	52	0.70	0.65	7.5	0.14	78	437	
		3.90	1.60		170	130		6.8		0.60	9.70	41	13.00	1.30	4.4	0.33	21	275	
N7	Natsalspruit @ Alrode S26.298 E28.144	4.70	0.59		155	115		6.6		0.32	1.80	41	13.00	0.47	3.7	0.19	21	415	
		1.90	0.57		115	105		6.1		0.34	6.80	41	6.10	0.81	4.4	0.10	28	315	
		1.50	0.85		138	115		9.1		0.15	2.50	44	13.00	1.20	4.2	0.08	40	425	
N8	Natsalspruit @ Heidelberg Road S26.426 E28.165	0.06	4.00		43	80		5.2	30,310	0.42	0.18	18	3.00	0.92	7.0	0.06	34	270	
		0.02	4.30		31	68		4.7	24,080	0.42	0.07	17	2.70	0.38	6.7	0.19	26	240	
		<0.01	1.10		31	54		4.2	15,280	0.33	0.05	18	2.80	0.72	6.9	0.09	21	200	
R1	Rietspruit from Sallies S26.305 E28.336	0.05	0.93		46	68		6.2	164,680	0.24	0.24	21	4.40	1.30	6.9	0.25	47	213	
		<0.01	2.60	26	79	79	97	6.8	650	0.30	0.05	18	0.67	4.40	7.6	0.11	57	115	<10
		<0.01	1.90	25	63	78	100	4.9	4,340	0.38	0.03	18	0.72	2.90	7.4	0.29	51	140	13
R2	Withokspruit Tributary S26.324 E28.338	0.01	0.44	18	50	63	98	5.4	10,240	0.33	0.04	18	0.23	2.60	7.6	0.27	46	100	14
		0.01	1.50	20	71	80	98	7.6	2,360	0.35	0.04	21	0.39	4.10	7.5	0.22	60	163	13
		0.02	0.25		50	150		0.5		0.27	0.02	36	0.31	0.35	7.8	0.10	95	400	
R3	Tributary @ Van Dyk Consolidated S26.259 E28.321	0.02	0.25		57	140		4.5		0.41	0.03	34	0.51	0.31	7.1	0.14	105	275	
		<0.01	0.52		94	190		8.0		0.53	0.02	57	3.50	0.10	7.0	0.10	145	402	
		0.02	0.45		17	35		6.9		0.48	0.10	10	0.03	0.93	7.8	0.06	17	45	
R4	Rietspruit @ Vosloorus S26.372 E28.245	0.02	0.82		12	35		4.3		0.71	0.05	19	0.06	1.00	7.3	0.15	27	49	
		0.08	0.25		30	53		6.2		0.67	0.07	18	0.05	0.38	7.9	0.12	35	80	
		0.04	0.28		34	46		8.1		0.63	0.07	15	0.08	0.64	7.7	0.09	28	139	
R5	Rietspruit @ Hardmans Farm S26.429 E28.181	<0.01	0.62		115	185		5.7		0.36	0.12	82	0.11	0.54	7.8	0.22	93	345	
		0.01	0.18		90	165		3.3		0.46	0.03	64	0.32	0.56	7.7	0.15	68	430	
		<0.01	0.25		72	145		3.8		0.48	0.04	50	0.14	0.42	7.7	0.12	100	230	
R6	Rietspruit Weir @ Luttig's Farm S26.451 E28.089	0.01	0.22		101	165		7.1		0.61	0.02	61	0.11	0.69	7.7	0.16	98	359	
		0.01	0.96		72	135		6.6	152,340	0.22	0.02	61	0.19	1.90	8.1	0.14	58	345	
		<0.01	0.94		70	125		3.9	63,180	0.38	0.11	57	0.24	0.75	7.7	0.23	55	340	
R6	Rietspruit Weir @ Luttig's Farm S26.451 E28.089	0.01	0.25		58	125		4.0	71,990	0.28	0.02	47	0.13	1.10	7.9	0.15	81	370	
		0.02	0.95		85	140		6.4	136,910	0.41	0.02	57	0.12	1.10	8.0	0.17	80	452	
		0.01	1.00	22	78	83	100	5.4	340	0.29	0.03	21	0.55	5.50	7.5	0.11	58	140	<10
R6	Rietspruit Weir @ Luttig's Farm S26.451 E28.089	<0.01	0.84	24	66	80	100	4.0	3,940	0.40	0.03	20	0.63	3.70	7.3	0.28	54	170	24
		0.01	0.24	16	51	70	97	5.1	3,620	0.32	0.03	21	0.10	2.80	7.8	0.28	50	145	22
		0.01	0.56	16	72	86	100	7.9	1,640	0.35	0.05	23	0.22	4.50	7.6	0.21	62	190	12

Key

N4	Natsalspruit from Simmer and Jack Mine	3.90	1.60	- 1 Jul to 30 Sep 2013
		4.70	0.59	- 1 Oct to 31 Dec 2013
		1.90	0.57	- 1 Jan to 31 Mar 2014
		1.50	0.85	- 1 Apr to 30 Jun 2014

Water Quality Guidelines

	- Ideal
	- Acceptable
	- Tolerable
	- Unacceptable

Data supplied by Rand Water. For all water quality queries contact DWA Gauteng Regional Office staff member responsible for the Klip River Catchment. Contact details can be obtained from The Reservoir website www.reservoir.co.za/contact.htm