



Sample Points	Sample Point Description	Ammonia (NH4)	Chloride (Cl)	Fluoride (F)	M-Alkalinity (M-ALK)	Nitrate (NO3)	Phosphate (PO4)	Sulphate (SO4)	Chemical Oxygen Demand (COD)	Conductivity (EC)	pH	E. coli
EQQ	Elands River below Qwa-Qwa 28°22'33.68"S 28°51'38.22"E	0.45	12.00	0.24	75.00	2.80	0.37	8.00	12.00	22.00	7.60	
		0.26	16.00	0.10	82.00	4.10	0.64	15.00	18.00	32.00	5.80	
		0.24	12.00	0.22	82.00	1.20	0.66	11.00	22.00	25.00	6.90	
		0.12	<10	0.09	52.00	0.59	<0.036	7.80	14.00	29.00	6.90	
MR	Meul River downstream of Ribbokspruit 28° 1'35.48"S 29°15'0.51"E	0.12	<10	0.32	82.00	<0.10	<0.05	9.40	<10	19.00	7.50	
		0.12	<10	0.17	130.00	<0.10	<0.036	12.00	6.70	33.00	7.90	
		0.12	<10	0.36	115.00	<0.10	<0.036	9.30	9.70	29.00	7.30	
		0.12	<10	0.18	66.00	<0.10	0.04	9.10	13.00	19.00	6.70	
STERK	Sterkfontein Dam 28°24'30.30"S 29° 2'15.00"E	0.12	<10	0.30	45.00	0.11	<0.05	<5.0	<10	8.40	7.30	
		0.12	<10	0.11	43.00	0.15	<0.036	<5.0	5.00	10.00	6.90	
		0.12	<10	0.31	42.00	<0.10	<0.036	<5.0	5.00	10.00	6.80	
		0.12	<10	0.25	42.00	<0.10	<0.036	<5.0	5.00	11.00	6.60	
WAF	Wilge above Frankfort 27°18'36.42"S 28°31'58.65"E	0.12	<10	0.27	115.00	0.25	<0.05	14.00	16.00	27.00	8.10	
		0.12	10.00	0.15	150.00	0.11	<0.036	18.00	10.00	40.00	7.90	
		0.12	<10	0.29	100.00	0.40	<0.036	12.00	12.00	25.00	7.10	
		0.12	<10	0.14	70.00	0.17	<0.036	7.20	23.00	20.00	6.60	
WAH	Wilge above Harrismith 28°18'27.90"S 29° 7'52.48"E	0.12	<10	0.21	29.00	0.21	<0.05	<5.0	<10	6.80	7.40	
		0.12	<10	0.08	43.00	0.14	<0.036	<5.0	5.00	11.00	6.80	
		0.12	<10	0.21	53.00	<0.10	<0.036	<5.0	11.00	13.00	6.70	
		0.12	<10	0.21	30.00	0.51	0.05	14.00	19.00	9.10	6.40	
WC	Cornelis River below Warden 27°50'36.89"S 28°57'42.03"E	0.12	14.00	0.35	115.00	0.63	<0.05	14.00	19.00	27.00	8.00	
		0.12	14.00	0.22	150.00	<0.10	<0.036	17.00	16.00	38.00	7.80	
		0.12	12.00	0.37	160.00	<0.10	0.05	18.00	35.00	43.00	6.70	
		0.12	<10	0.24	87.00	0.12	<0.036	11.00	26.00	24.00	7.10	
WE	Elands River @ Aberfeldy 28°13'48.53"S 28°51'3.03"E	0.12	<10	0.22	98.00	1.70	0.19	7.80	<10	24.00	7.90	
		0.12	16.00	0.09	110.00	3.20	0.55	12.00	15.00	34.00	7.50	
		0.12	14.00	0.15	97.00	1.40	0.41	13.00	16.00	30.00	6.90	
		0.12	<10	0.14	62.00	0.36	<0.036	7.80	24.00	16.00	6.80	
WF	Wilge River @ Frankfort 27°16'18.00"S 28°29'28.41"E	0.12	<10	0.17	65.00	0.39	<0.05	5.00	<10	15.00	7.80	
		0.12	<10	0.08	51.00	0.19	<0.036	<5.0	7.00	13.00	7.00	
		0.12	<10	0.12	45.00	0.15	<0.036	5.20	5.00	12.00	6.80	135.00
		0.12	<10	0.18	70.00	0.19	0.04	7.30	22.00	20.00	6.70	29370.00
WH	Wilge River below Harrismith 28°13'20.10"S 28°57'56.96"E	0.18	<10	0.38	44.00	1.20	0.15	9.70	<10	12.00	7.60	
		0.45	18.00	0.14	67.00	0.97	0.17	13.00	19.00	22.00	7.00	
		0.93	12.00	0.22	77.00	1.50	0.43	11.00	26.00	28.00	6.70	
		0.12	<10	0.11	35.00	0.34	<0.036	6.20	16.00	11.00	6.50	
WJ	Jordanspruit below Bethlehem 28°10'0.45"S 28°18'38.66"E	0.66	15.00	0.27	105.00	0.30	<0.05	12.00	48.00	32.00	7.60	
		0.12	24.00	0.11	110.00	0.43	<0.036	15.00	45.00	44.00	7.10	
		0.38	44.00	0.25	125.00	0.70	0.14	34.00	42.00	50.00	7.20	
		0.28	<10	0.17	65.00	0.31	0.19	10.00	32.00	19.00	6.80	
WJA	Jordanspruit above Bethlehem 28°15'1.05"S 28°18'31.85"E	0.12	<10	0.35	87.00	0.13	<0.05	<5.0	28.00	19.00	8.10	
		0.12	<10	0.13	83.00	0.19	<0.036	<5.0	30.00	19.00	8.00	
		0.12	<10	0.18	105.00	<0.10	0.08	5.30	22.00	30.00	8.10	
		0.12	<10	0.20	56.00	<0.10	<0.036	5.20	38.00	14.00	8.40	
WL	Liebenbergsvlei River between Tweeling & Frankfort 27°25'51.31"S 28°31'35.66"E	0.12	<10	0.08	53.00	0.22	<0.05	<5.0	<10	12.00	7.90	
		0.12	<10	0.07	46.00	0.10	<0.036	<5.0	5.00	11.00	7.50	
		0.17	<10	0.14	42.00	<0.10	0.04	<5.0	7.00	11.00	6.80	
		0.12	<10	0.17	74.00	0.27	0.06	9.80	20.00	21.00	6.80	
WLA	Lesotho Highlands Ash River Outfall 28°26'22.13"S 28°23'49.64"E	0.12	<10	0.08	41.00	0.25	<0.05	<5.0	<10	8.00	7.60	
		0.12	<10	0.07	37.00	0.20	<0.036	<5.0	7.00	8.70	6.80	
		0.12	<10	0.14	36.00	0.22	<0.036	<5.0	5.00	9.70	6.70	17.00
		0.12	<10	0.06	34.00	0.35	<0.036	<5.0	5.00	9.10	6.40	600.00
WLB	Wilge Liebenbergsvlei @ Bethlehem 28°11'27.05"S 28°20'37.05"E	0.12	<10	0.08	44.00	0.16	<0.05	<5.0	<10	8.80	7.60	
		0.12	<10	0.07	40.00	0.12	<0.036	<5.0	5.00	8.80	6.80	
		0.12	<10	0.09	38.00	0.11	0.04	<5.0	5.00	10.00	6.70	
		0.12	<10	0.17	55.00	0.24	<0.036	6.60	15.00	14.00	6.60	
WLB	Wilge River below Bethlehem 28° 6'11.72"S 28°17'49.43"E	0.12	<10	0.09	44.00	0.21	<0.05	<5.0	<10	9.30	7.60	
		0.12	<10	0.05	40.00	0.18	<0.036	<5.0	5.00	9.20	6.90	
		0.17	<10	0.11	38.00	<0.10	0.04	<5.0	5.00	10.00	6.70	
		0.12	<10	0.17	64.00	0.32	<0.036	7.70	19.00	17.00	6.70	
WLR	Wilge River @ Reitz 27°45'28.18"S 28°19'39.05"E	0.12	<10	0.14	47.00	0.16	<0.05	<5.0	<10	11.00	7.70	
		0.12	<10	0.07	42.00	0.11	<0.036	<5.0	5.00	9.40	6.80	
		0.12	<10	0.10	40.00	0.22	0.05	5.30	11.00	11.00	6.80	
		0.12	<10	0.16	73.00	0.27	0.05	8.90	19.00	19.00	6.90	

Sample Points	Sample Point Description	Ammonia (NH4)	Chloride (Cl)	Fluoride (F)	M-Alkalinity (M-ALK)	Nitrate (NO3)	Phosphate (PO4)	Sulphate (SO4)	Chemical Oxygen Demand (COD)	Conductivity (EC)	pH	E: ccf/
WLS	Ash River - Soulospoot Dam 28°16'20.27"S 28°22'22.10"E	0.12	<10	0.07	41.00	0.17	<0.05	<5.0	23.00	8.20	7.70	
		0.12	<10	0.12	38.00	0.16	<0.036	7.70	5.00	8.60	6.80	
		0.17	<10	0.06	36.00	0.10	0.04	<5.0	5.00	9.30	6.80	
		0.12	<10	0.13	59.00	0.24	<0.036	5.30	12.00	15.00	7.00	
WM	Mollen River @ Kafferstad 1°24.18'S 28°59'41.27"E	0.12	<10	0.33	97.00	<0.10	<0.05	11.00	<10	23.00	8.00	
		0.12	12.00	0.18	150.00	0.43	<0.036	13.00	8.00	36.00	7.40	
		0.12	<10	0.30	130.00	<0.10	<0.036	13.00	9.70	32.00	7.60	
		0.12	<10	0.22	77.00	<0.10	0.05	10.00	20.00	20.00	6.90	
WMW	Wilge Meul @ Waaiwater 27°54'11.90"S 28°48'27.91"E	0.12	<10	0.30	81.00	0.55	1.10	7.70	<10	19.00	8.00	
		0.48	10.00	0.12	120.00	0.97	0.14	8.30	14.00	30.00	7.30	
		0.12	12.00	0.22	110.00	0.34	0.06	10.00	17.00	29.00	7.20	
		0.12	<10	0.17	72.00	0.26	<0.036	8.30	18.00	19.00	6.80	
WN	Nuewjaarspruit d/s of Sterkfontein Dam 28°17'19.39"S 29°5'28.26"E	0.12	<10	0.12	46.00	<0.10	<0.05	<5.0	<10	9.50	7.70	
		0.12	<10	0.12	50.00	<0.10	<0.036	<5.0	6.70	11.00	6.80	
		0.12	<10	0.24	49.00	<0.10	0.04	<5.0	5.00	14.00	7.10	
		0.12	<10	0.13	44.00	0.11	<0.036	<5.0	18.00	12.00	6.60	
S-BETH	Bethlehem Sewage Works 28°12'49.19"S 28°18'35.16"E	23.00	42.00	0.10	180.00	0.16	3.40	21.00	77.00	56.00	7.70	
		8.70	37.00	0.08	105.00	1.60	0.26	29.00	67.00	38.00	7.20	
		13.00	34.00	0.10	135.00	0.13	0.27	33.00	80.00	49.00	7.00	76990.00
		13.00	40.00	0.16	195.00	0.36	8.80	44.00	155.00	70.00	7.00	388930.00
S-HSW	Harrismith Sewage Works 28°16'47.50"S 29°5'49.69"E	30.00	46.00	0.08	310.00	0.10	2.80	23.00	74.00	78.00	8.00	
		20.00	50.00	0.11	265.00	0.18	4.20	20.00	90.00	78.00	7.50	
		29.00	35.00	0.19	165.00	<0.10	3.50	23.00	81.00	78.00	7.30	18090.00
		27.00	45.00	0.16	250.00	<0.10	3.60	40.00	75.00	77.00	7.40	370120.00
S-QWAQWA	Qwa-Qwa Sewage Works 28°30'29.90"S 28°49'34.21"E	6.70	43.00	0.06	29.00	14.00	3.20	19.00	26.00	41.00	7.20	
		4.80	39.00	0.08	31.00	15.00	3.10	24.00	48.00	42.00	6.30	
		3.80	32.00	0.09	24.00	19.00	2.80	29.00	27.00	41.00	6.40	950.00
		6.20	32.00	0.08	35.00	14.00	3.30	33.00	36.00	40.00	6.80	680.00
S-TSIAME	Tsiame Sewage Works 28°16'47.10"S 28°59'20.70"E	0.17	40.00	0.08	56.00	4.60	4.40	57.00	23.00	45.00	7.80	
		0.12	43.00	0.08	63.00	6.80	6.30	49.00	25.00	47.00	7.10	
		3.80	32.00	0.09	24.00	19.00	2.80	29.00	27.00	41.00	6.40	950.00
		0.86	45.00	0.11	115.00	0.98	1.40	91.00	20.00	61.00	8.00	220.00






Compliance of Sewage Work to General Standard (GN 1191 Oct 1999), where applicable

S-BETH	Bethlehem Sewage Works 28°12'49.19"S 28°18'35.16"E	23.00	0.10	0.16	3.40	77.00	56.00	7.70	
		8.70	0.08	1.60	0.26	67.00	38.00	7.20	
		13.00	0.10	0.13	0.27	80.00	49.00	7.00	76990.00
		13.00	0.16	0.36	8.80	155.00	70.00	7.00	388930.00
S-HSW	Harrismith Sewage Works 28°16'47.50"S 29°5'49.69"E	30.00	0.08	0.10	2.80	74.00	78.00	8.00	
		20.00	0.11	0.18	4.20	90.00	78.00	7.50	
		29.00	0.19	<0.10	3.50	81.00	78.00	7.30	18090.00
		27.00	0.16	<0.10	3.60	75.00	77.00	7.40	370120.00
S-QWAQWA	Qwa-Qwa Sewage Works 28°30'29.90"S 28°49'34.21"E	6.70	0.06	14.00	3.20	26.00	41.00	7.20	
		4.80	0.08	15.00	3.10	48.00	42.00	6.30	
		3.80	0.09	19.00	2.80	27.00	41.00	6.40	950.00
		6.20	0.08	14.00	3.30	36.00	40.00	6.80	680.00
S-TSIAME	Tsiame Sewage Works 28°16'47.10"S 28°59'20.70"E	0.17	0.08	4.60	4.40	23.00	45.00	7.80	
		0.12	0.08	6.80	6.30	25.00	47.00	7.10	
		3.80	0.09	19.00	2.80	27.00	41.00	6.40	950.00
		0.86	0.11	0.98	1.40	20.00	61.00	8.00	220.00

Key

EQQ	Elands below Qwa-Qwa	0.45	-	1 Apr 2010 - 30 Jun 2010
		0.26	-	1 Jul 2010 - 30 Sep 2010
		0.24	-	1 Oct 2010 - 31 Dec 2010
		0.12	-	1 Jan 2011 - 31 Mar 2011

Water Quality Guidelines

	-	Ideal
	-	Acceptable
	-	Tolerable
	-	Unacceptable
	-	No sample or result available