

Sample Points	Sample Point Description	Ammonia	Chloride	Fluoride	Alkalinity	Nitrate	Phosphate	Sulphate	Chemical Oxygen Demand	Conductivity	pH	E. coli
VE	Vaal River @ Ermelo 26°21'46.17"S 30°6'31.15"E	0.12	<10	0.11	65.00	0.10	<0.05	16.00	11.00	22.00	7.5	
		0.12	12.00	0.20	42.00	0.15	0.04	40.00	19.00	23.00	6.9	
		0.12	<10	0.15	46.00	0.11	<0.036	14.00	17.00	14.00	7	
		0.12	9.60	0.20	48.00	0.33	0.17	17.50	15.50	18.00	7.2	
ZD	Zaaihoek Dam 27°09'47.0"S 29°52'42.8"E	0.12	<10	0.11	<5.0	0.20	<0.036	8.10	28.00	82.00	7.7	71.00
		0.12	<10	0.33	135.00	<0.10	<0.036	20.00	20.00	32.00	7.7	98.00
		0.12	11.00	0.34	155.00	<0.10	<0.036	32.00	20.00	38.00	7.8	
VKV	Klein Vaal River @ Goedeheoop 26°49'12.19"S 30°8'12.00"E	0.12	<10	0.09	70.00	<0.10	<0.05	2.50	<10	18.00	7.8	
		0.12	<10	0.12	59.00	0.18	0.04	8.80	14.00	11.00	7	
		0.12	<10	0.10	52.00	0.11	<0.036	<5	12.00	13.00	7.2	
		0.12	5.90	0.06	64.00	0.15	<0.036	<5	11.00	16.00	7.41	
VRA	Rietspruit below Amersfoort 26°54'47.20"S 29°52'19.22"E	0.12	18.00	0.16	220.00	<0.10	<0.05	38.00	11.00	57.00	8.4	
		0.12	15.00	0.24	110.00	0.36	0.05	53.00	17.00	25.00	7.6	
		0.12	<10	0.23	135.00	<0.10	0.11	21.00	18.00	32.00	7.9	
		0.12	12.45	0.14	200.00	<0.10	<0.036	27.00	11.50	46.00	8.23	
VKK	Brummerspruit below Ermelo 26°30'49.51"S 29°54'27.37"E	9.40	43.00	0.19	150.00	0.25	2.30	110.00	49.00	73.00	7.2	
		19.00	30.00	0.24	170.00	0.12	1.80	92.00	51.00	67.00	7.3	
		11.00	22.00	0.24	155.00	0.11	1.30	115.00	45.00	60.00	7.4	
		8.80	35.50	0.16	170.00	0.47	2.08	91.50	40.50	62.00	7.52	
VKR	Tweefontein @ Riverside 26°37'21.17"S 29°50'16.24"E	1.60	27.00	0.19	165.00	0.60	0.76	67.00	25.00	61.00	7.3	
		2.50	19.00	0.27	140.00	0.59	0.53	54.00	29.00	49.00	7.2	
		0.34	18.00	0.33	165.00	1.20	0.14	68.00	32.00	52.00	7.6	
		0.55	20.50	0.15	155.00	1.45	0.46	44.00	28.00	50.00	7.7	
VK	Brummerspruit before Vaal River 26°46'51.26"S 29°48'23.51"E	0.12	27.00	0.17	195.00	2.20	0.61	55.00	30.00	59.00	8.3	
		1.40	17.00	0.26	120.00	0.95	0.46	52.00	25.00	44.00	7.2	
		0.12	16.00	0.30	180.00	0.79	0.06	48.00	25.00	48.00	7.7	
		0.12	19.50	0.16	150.00	1.14	0.19	43.00	24.50	50.00	7.94	
VAS	Vaal River above Standerton 26°51'18.56"S 29°41'51.61"E	0.12	17.00	0.14	155.00	<0.10	<0.05	35.00	25.00	46.00	8.3	
		0.54	11.00	0.22	91.00	0.51	0.11	35.00	20.00	31.00	7.2	
		0.12	<10	0.18	95.00	<0.10	<0.036	20.00	16.00	26.00	7.2	
		0.12	12.00	0.13	125.00	0.23		27.00	16.50	40.00	8.1	
VGK	Geeklispuit below Amersfoort 26°57'53.51"S 29°40'19.12"E	0.12	17.00	0.17	250.00	<0.10	<0.05	50.00	11.00	61.00	8.4	
		0.12	19.00	0.27	215.00	0.10	0.04	56.00	22.00	57.00	8.1	
		0.12	<10	0.34	185.00	<0.10	<0.036	38.00	20.00	44.00	8.1	
		0.12	15.00	0.16	225.00	<0.10	<0.036	44.50	13.00	56.00	8.2	
VBB	Blesbokspuit below Bethal 26°34'2.11"S 29°26'41.21"E	1.80	39.00	0.52	130.00	0.24	1.30	37.00	78.00	53.00	7	
		0.12	24.00	0.45	140.00	0.35	0.84	34.00	31.00	45.00	7.3	
		7.50	29.60	0.26	175.00	0.80	1.51	32.00	38.50	58.00	7.47	
VBS	Blesbokspuit @ Skaapkraal 26°38'17.35"S 29°27'6.24"E	0.12	34.00	0.33	255.00	0.14	0.78	48.00	39.00	75.00	8.4	
		0.12	38.00	0.47	54.00	0.23	0.88	40.00	56.00	58.00	7.7	
		0.32	31.30	0.27	98.00	0.17	0.30	33.00	33.00	32.00	7.7	
VB	Blesbokspuit @ Vaal River Confluence 26°49'57.05"S 29°30'32.95"E	0.12	33.00	0.39	255.00	<0.10	<0.05	54.00	23.00	70.00	8.2	
		0.12	19.00	0.38	56.00	0.23	0.19	55.00	34.00	53.00	7.4	
		0.33	<10	0.31	115.00	0.17	0.20	30.00	30.00	33.00	7.6	
		0.12	25.00	0.27	200.00	2.00	0.27	46.00	31.50	54.00	8	
ND-LEEU	Leeuспuit @ New Denmark Colliery 26°51'16.79"S 29°19'31.56"E	0.12	33.00	0.29	230.00	<0.10	<0.05	51.00	25.00	61.00	8.5	
		0.12	<10	0.38	72.00	0.22	0.10	29.00	50.00	40.00	6.8	
		0.12	<10	0.32	67.00	<0.10	0.04	20.00	43.00	18.00	8	
		0.12	17.50	0.19		0.22		34.50	29.50		8.02	
VS	Vaal River @ Standerton 26°56'51.37"S 29°15'32.09"E	0.12	<10	0.18	76.00	0.21	<0.05	18	26.00	25.00	7.1	
		0.12	<10	0.28	63.00	0.55	0.06	22.00	31.00	23.00	6.9	
		0.12	<10	0.23	66.00	0.15	<0.036	20.00	18.00	21.00	6.8	
		0.12	7.20	0.36	72.00	0.26	0.08	16.00	21.00	22.00	7.37	

Sample Points	Sample Point Description	Ammonia	Chloride	Fluoride	Alkalinity	Nitrate	Phosphate	Sulphate	Chemical Oxygen Demand	Conductivity	pH	E. coli
S-BETHAL	Bethal Sewage Works 26°29'8.05"S 29°27'15.88"E	1.70	42.00	0.98	150.00	4.20	0.74	58.00	30.00	58.00	7.4	3000.00
		2.40	54.00	0.69	160.00	3.40	6.90	59.00	52.00	68.00	6.8	222610.00
		7.46	22.35	0.26	210.00	0.72	6.63	16.45	30.00	68.00	7.5	6420.00
		14.00	60.00	0.23	44.00	1.90	1.70	98.00	1870.00	58.00	6.9	
S-ESW	Ermelo Sewage Works 26°30'42.84"S 29°57'51.11"E	0.12	<10	0.13	36.00	0.11	0.04	55.00	18.00	20.00	6.7	
		28.00	42.00	0.32	245.00	<0.10	3.90	56.00	210.00	75.00	7.1	1295070.00
		25.00	53.00	0.19	195.00	6.80	2.95	67.00	90.00	77.00	7.75	363511.50
		12.00	86.00	0.23	210.00	6.40	1.70	48.00	92.00	74.00	7.6	
S-TUTU	Tutukani Sewage Works 26°47'36.70"S 29°17'30.43"E	16.00	74.00	0.43	130.00	0.93	2.30	51.00	34.00	52.00	7.4	100.00
		17.00	70.00	0.29	135.00	<0.10	2.10	50.00	33.00	51.00	7.2	26.00
		0.81	95.00	0.18	130.00	17.00	0.33	41.00	22.00	56.00	7.22	153.00
		18.00	33.00	0.10	74.00	8.20	1.70	135.00	45.00	61.00	7.5	
S-MAJUBA	Majuba Power Station Sewage Works 27°5'23.45"S 29°46'11.44"E	2.20	32.00	0.21	89.00	9.30	0.98	66.00	35.00	56.00	7.3	15.00
		1.00	17.00	0.30	94.00	5.20	0.48	83.00	22.00	46.00	7.1	1300.00
		2.37	73.00	0.18	98.00	7.03	0.94	56.00	41.00	71.00	7.94	163.00
		4.20	100.00	0.16	84.00	6.40	1.20	56.00	64.00	66.00	7.5	
S-ND-SOUTH	New Denmark Colliery - South Shaft 26°44'41.51"S 29°18'31.70"E	6.70	115.00	0.27	125.00	7.80	5.00	47.00	58.00	75.00	7.2	99.00
		2.70	86.00	0.28	92.00	7.40	2.50	46.00	53.00	66.00	7.6	0.67
		2.53	81.00	0.22	110.00	6.17	1.53	40.00	33.30	58.00	7.77	236.00
		0.12										

Key

VAS	Vaal River above Standerton	0.12	-	1 Jan 2011 - 31 Mar 2011
		0.12	-	1 Jul 2010 - 30 Sep 2010
		0.54	-	1 Oct 2010 - 31 Dec 2010
		0.12	-	1 Apr 2011 - 30 Jun 2011

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	Ideal
	Acceptable
	Tolerable
	Unacceptable

- Ideal
- Acceptable
- Tolerable
- Unacceptable