

Sample Point	ELEMENT								
	Quarter	pH	Conductivity	COD	NH3	NOX	P	SS	E.coli
Ancor Up Stream S26°16'8.01" E28°28'26.05"	1	7.2	43	27	2.7	0.3	0.4	19	1892
	2	7.4	48	18	0.8	0.4	0.2	12	394
	3	8.1	49	13	1.0	0.8	0.1	11	433
	4	7.8	49	19	2.6	0.6	0.2	11	457
Ancor S26°16'0.62" E28°28'56.73"	1	7.2	107	135	7.5	1.2	0.6	30	141300
	2	7.5	92	81	4.8	4.0	0.5	22	524
	3	7.3	91	92	6.0	5.9	0.2	23	616
	4	7.4	108	151	7.7	3.0	0.5	35	12300
Ancor Down Stream S26°15.'47.55" E28°29'03.45"	1	7.1	83	101	7.7	0.3	0.7	24	121429
	2	7.3	67	39	2.1	1.6	0.2	16	219
	3	7.4	64	33	2.2	1.5	0.1	13	273
	4	7.5	68	60	3.6	0.6	0.4	23	427
Benoni S26°12.655' E28°18.906'	1	7.2	79	22	0.5	2.5	0.1	11	0
	2	7.4	59	21	0.5	1.1	0.2	11	164
	3	7.4	66	15	0.4	3.9	0.2	10	135
	4	7.3	74	17	0.5	7.2	0.2	10	47
Benoni Down Stream S26°12'13.7" E28°18'51.13"	1	7.0	70	12	0.5	2.0	4.6	19	3697
	2	7.3	84	18	1.5	0.3	0.3	12	5510
	3	7.3	71	10	0.7	3.6	0.2	10	1577
	4	7.3	67	12	0.5	5.0	0.2	10	2619
Carl Grundlingh - Nigel UP Stream S26°23'06.0" E28°28'12.0"	1	6.5	129	27	0.6	0.2	0.1	15	691
	2	7.0	61	18	0.5	0.1	0.1	10	156
	3	7.3	93	17	0.5	0.2	0.1	266	744
	4	7.5	106	13	0.6	0.2	0.1	33	241
Carl Grundlingh - Nigel S26°23.183' E28°28.201'	1	7.2	72	26	1.2	0.6	0.1	10	0
	2	7.5	36	22	1.2	0.9	0.1	10	61
	3	7.4	64	19	0.7	0.9	0.1	10	8
	4	7.2	70	16	0.1	0.7	0.1	10	12
Carl Grundlingh - Nigel Down Stream S26°23'06.82" E28°28'12.86"	1	7.0	74	23	0.2	0.2	0.1	18	101
	2	7.3	58	19	0.4	0.1	0.2	10	23
	3	7.4	73	13	0.4	0.3	0.1	10	12
	4	7.5	77	18	0.4	0.2	0.2	19	14
Daveyton Up Stream S26°08.0' E28°27.0'	1	7.4	51	50	3.8	0.3	0.2	46	51198
	2	7.8	50	47	5.4	0.2	0.1	37	403
	3	8.8	48	28	1.1	0.8	0.1	24	62
	4	8.2	51	40	5.3	0.6	0.1	24	375
Daveyton S26°08.275' E28°27.737'	1	7.2	44	21	0.8	2.1	0.4	10	54
	2	7.2	46	22	1.5	2.1	0.3	11	54
	3	7.1	48	22	2.3	2.6	0.3	10	28
	4	7.0	54	26	3.0	3.2	0.3	11	27
Daveyton Down Stream S26°08.163' E28°27.888'	1	7.3	49	15.67	0.4	0.2	0.5	14	22910
	2	7.5	45	17.0	1.1	0.3	0.8	10	73
	3	7.7	48	13	0.7	0.2	0.3	10	14
	4	7.8	55	15	1.1	0.3	0.3	11	70
H.Bickley - Nigel US Stream S26°28'44.0" E28°25'40.0"	1	7.5	163	16	0.4	0.3	0.4	21	3241
	2	8.0	85	16	0.3	0.1	0.6	15	3943
	3	8.1	120	12	0.5	0.3	0.2	11	3824
	4	8.1	120	12	0.5	0.3	0.2	11	3824.3
H.Bickley - Nigel S26°26.709' E28°26.905'	1	7.2	54	42	2.6	3.4	0.3	19	1006
	2	7.2	56	37	1.4	4.0	0.3	16	215
	3	7.1	54	27	2.2	5.9	0.5	14	218
	4	7.1	58	45	3.2	4.3	0.1	20	124
H.Bickley - Nigel Down Stream S26°28'44.72" E28°25'40.09"	1	7.5	147	18	0.5	1.6	0.5	19	1556
	2	8.0	84	15	0.4	0.6	0.5	16	1546
	3	7.9	115	13	0.6	1.2	0.3	33	525
	4	7.9	129	13	0.7	1.8	0.4	10	487
Heidelberg Up Stream S26°32'0" E28°19'0"	1	7.4	122	28	0.5	2.2	0.5	45	2528
	2	7.9	74	20	0.6	1.5	0.5	49	400
	3	8.0	105	19	1.1	2.2	0.4	10	153
	4	8.0	119	11	0.8	3.2	0.5	10	255
Heidelberg S26°32.398' E28°19.694'	1	7.3	70	25	4.8	2.6	0.3	11	82
	2	7.5	70	24	4.0	4.1	0.5	11	32
	3	7.4	71	21	3.8	8.3	0.4	10	63
	4	7.3	72	22	4.2	8.4	0.3	11	28
Heidelberg Down Stream S26°32'17.72" E28°19'25.26"	1	7.5	121	29.79	1.5	2.2	0.5	37	298769
	2	7.9	77	28.3	1.1	1.7	0.5	40	116912
	3	8.0	104	16.5	1.8	2.4	0.4	11	184883
	4	7.8	117	22	1.7	3.4	0.5	16	271334
		pH	EC	COD	NH3	Nox	P	SS	E.coli
	1	7.0	53	134	8.5	0.3	1.3	35	3807928

Standard Exempt/License	pH	Conductivity	COD	NH3	NOX	P	SS	E.coli
Ancor	8.5	150	75	7	9	0.9	30	126

License

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Benoni	8.5	150	75	7	9	0.9	30	126

License

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Grundlingh	8.5	150	75	7	9	0.9	30	126

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Daveyton	8.5	75	75	7	9	0.9	30	126

License

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Bickley	8.5	150	75	7	9	0.9	30	126

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Heidelberg	8.5	150	75	7	9	0.9	30	126

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Jan Smuts	8.5	150	75	7	9	0.9	30	126

Jan Smuts - Brakpan Up Stream S26°13'27.0" E28°22'39.0"	2	7.1	48	21	2.5	1.6	0.3	14	122967
	3	7.4	38	11	1.3	3.0	0.1	10	1608
	4	7.3	36	13	1.4	3.3	0.2	11	13252
Jan Smuts - Brakpan S26°13.351' E28°22.431'	1	6.9	60	60	7.7	8.1	0.3	23	96
	2	6.7	55	39	1.8	12.3	0.3	18	93
	3	6.6	60	38	2.3	16.5	0.5	21	53
	4	6.5	63	61	4.0	17.3	0.6	26	241
Jan Smuts - Brakpan Down Stream S26°13'27.53" E28°22'39.49"	1	7.0	69	50	7.4	0.1	3.6	32	54162
	2	6.8	48	23	1.5	0.3	0.5	10	4806
	3	6.7	59	10	0.9	4.1	0.2	10	39
	4	7.0	70	30	3.1	1.8	2.4	11	4243
JP Marais - Benoni UP Stream S26°10'07.0" E28°23'31.0"	1	7.2	42	35	5.5	0.4	0.2	27	424089
	2	7.5	36	15	0.9	2.1	0.1	33	64942
	3	7.0	53	36	1.0	3.0	0.1	10	0
	4	7.4	35	19	1.8	2.0	0.1	0	4412
JP Marais - Benoni S26°10.115' E28°23.495'	1	7.1	54	26	0.7	1.8	0.2	11	2
	2	7.2	53	22	1.1	2.2	0.2	10	19
	3	7.4	42	14	1.7	2.7	0.1	10	569
	4	7.0	58	22	1.3	1.7	0.4	11	0
JP Marais - Benoni Down Stream S26°10'07.51" E28°23'31.52"	1	7.2	57	72	4.6	0.9	0.5	12	1566879
	2	7.3	49	17	0.6	2.7	0.2	10	3050
	3	7.2	55	12	0.5	3.5	0.1	542	859
	4	7.2	57	28	1.3	2.1	0.6	20	625
Rynfield - Benoni Up Stream S26°09'36.0" E28°21'58.0"	1	7.1	34	55	7.6	0.3	0.8	49	491
	2	8.2	19	25	0.5	0.1	0.1	17	192
	3	8.1	22	32	0.5	0.1	0.1	30	65
	4	8.1	32	39	0.5	0.2	0.1	31	8
Rynfield - Benoni S26°09.510' E28°21.578'	1	7.2	64	40	9.1	10.2	0.5	14	403
	2	7.1	54	30	3.6	2.7	0.5	12	1064
	3	7.0	50	20	0.7	4.4	0.6	10	135
	4	7.0	53	22	2.9	3.5	0.7	11	10
Rynfield - Benoni Down Stream S26°09'36.56" E28°21'58.47"	1	7.4	62	104	13.9	1.4	1.9	68	921
	2	7.6	45.4	38	7.4	0.8	1.2	20.8	603
	3	7.4	52	32	3.6	3.0	0.4	19	79
	4	7.4	70	39	11.3	1.5	2.2	23	297
Ratanda - Heidelberg Up Stream S26°35'0" E28°17'0"	1	7.4	127	21	0.5	2.3	0.5	65	5576
	2	7.9	79	23	0.9	1.6	0.6	46	16759
	3	7.8	104	11	1.3	2.4	0.4	11	4000
	4	8.1	117	11	0.7	3.4	0.5	10	394
Ratanda - Heidelberg S26°34.883' E28°18.137'	1	7.0	59	29	2.1	6.1	0.4	10	59
	2	7.2	57	24	1.3	4.5	0.2	10	57
	3	7.1	63	34	3.3	6.3	0.7	12	57
	4	7.0	61	27	0.9	6.8	0.1	11	30
Ratanda - Heidelberg Down Stream S26°35'01.26" E28°17'51.93"	1	7.4	127	24	0.6	2.4	0.6	39	11387
	2	7.9	78	22	1.0	1.6	0.5	48	12246
	3	7.7	104	16	1.0	2.7	0.4	12	5793
	4	7.9	117	12	0.7	3.5	0.6	10	746
Tsakane Up Stream S26°22'0" E28°21'0"	1	7.2	53	278	11.0	0.3	0.9	107	6330000
	2	7.2	51	315	10.3	0.1	0.7	121	7572500
	3	7.5	60	482	17.1	0.2	1.5	167	5 373 750
	4	7.5	63	402	18.9	0.3	1.6	120	6329484
Tsakane S26°22.659' E28°22.018'	1	7.1	47	37	4.9	1.8	0.5	15	29
	2	7.1	49	40	5.3	1.3	0.8	17	220
	3	7.1	53	50	8.7	1.7	0.9	22	77
	4	7.2	62	78	15.6	1.1	1.0	29	171
Tsakane Down Stream S26°22'46.69" E28°21'51.06"	1	7.2	49	98	8.1	0.4	1.1	42	6150000
	2	7.3	51	93	8.6	0.7	1.3	55	1005931
	3	7.4	60	159	14.8	0.2	1.2	84	1 546 972
	4	7.3	57	170	13.2	1.2	0.8	81	182747
Welgedacht - Springs Up stream S26°11'56.4" E28°28'46,8"	1	7.3	52	19	0.4	0.5	0.6	10	2380
	2	7.6	45	13	0.4	0.7	0.5	10	253
	3	7.6	45	13	0.4	0.7	0.5	10	253
	4	7.6	54	12	0.5	0.1	0.3	10	128
Welgedacht - Springs S26°13'59,4" E28°26'15,4"	1	7.2	66	75	9.3	1.7	1.7	21	987016
	2	7.5	54	16	0.5	5.1	0.4	13	60
	3	7.3	56	18	0.7	5.5	0.8	11	46
	4	7.4	61	21	1.5	3.8	0.6	11	53
Welgedacht - Springs Down stream S26°11'35,1" E28°28'38,2"	1	7.2	67	41	5.6	0.8	1.7	17	245343
	2	7.4	52	20	0.5	1.8	0.5	13	875
	3	7.2	56	13	0.4	4.2	0.6	10	40
	4	7.2	60	15	0.8	2.9	0.5	10	74

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
JP	8.5	150	75	7	9	0.9	30	126

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Rynfield	8.5	150	75	7	9	0.9	30	126

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Ratanda	8.5	150	75	7	9	0.9	30	126

License

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Tsakane	8.5	150	75	7	9	0.9	30	126

license

	pH	EC	COD	NH3	NO3	P	SS	E.coli
Welgedacht	9.5	70	75	6	15	10	25	0

License

Note: Above is based on quarterly averages

1: 2019/10/01 - 2019/12/31
2: 2020/01/01 - 2020/03/31

3: 2020/04/01 - 2020/06/30
4: 2020/07/01 - 2020/09/30

WWCW effluent

Comply
Non Comply

River

Ideal
Acceptable
Tolerable
Unacceptable