

# **NORTHERN PROVINCE**

15-Nov-1995 11:31 AM

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
**INSTITUTE FOR WATER QUALITY STUDIES**

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

Page 1

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A50

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G41304	1	8.0	0.8	< 0.04	60	40	43	27	409	54.9	0.022	< 0.04	3.5	28	169	8.7	14-JAN-95:1200
G41304	1	8.0	0.7	< 0.04	60	41	43	27	438	60.2	0.036	0.24	3.5	35	187	8.5	14-JAN-95:1400

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

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DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A60

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
1913A	1	7.0	0.3	3.15	6	47	46	41	733	87.4	0.010	< 0.04	1.8	88	401	34.8	18-MAR-95:1630
AF 1	1	6.5	0.3	0.39	6	5	9	1	73	8.5	0.005	0.25	2.6	4	35	17.5	29-MAR-95:1200
BAKENBE	3	6.3	0.3	83.09	32	153	104	40	836	138.0	0.011	0.04	13.3	68	47	21.8	20-JUL-95:1200
DRIEKOP	3	7.5	0.5	5.08	178	1196	363	203	2861	437.0	0.005	0.09	11.3	279	498	26.8	25-MAR-95:1600
G41350	3	8.1	0.7	28.42	7	32	64	48	749	94.8	0.012	0.04	2.6	62	334	33.7	10-MAY-95:1200
G41350	3	7.8	0.7	24.91	6	33	87	26	619	76.4	0.023	0.04	2.6	47	252	30.2	20-AUG-95:0400
G41351	1	8.2	0.8	5.11	5	6	37	19	352	41.5	0.029	< 0.04	3.1	25	191	33.5	29-AUG-95:1040
G41352	3	8.0	0.6	30.41	7	42	41	61	761	100.3	0.015	< 0.04	3.0	72	328	37.6	15-MAY-95:1200
G41352	1	8.0	0.4	4.69	19	97	86	50	677	83.9	0.059	0.05	3.2	32	303	11.0	16-MAY-95:1200
G41352	3	7.8	0.8	33.52	6	42	38	73	916	102.8	0.032	0.05	3.1	89	422	39.1	28-AUG-95:0200
G41353	3	7.6	0.6	31.76	6	40	39	67	860	108.4	0.027	0.04	3.0	87	391	36.4	26-AUG-95:0800
G41357	3	7.7	0.6	97.80	92	593	405	131	2449	360.0	0.016	0.07	13.9	162	506	24.7	20-JUN-95:1600
G41359	2	8.0	0.5	16.08	127	535	194	147	1839	259.0	0.028	0.08	1.8	157	497	31.7	22-JUN-95:1600
G41359	2	7.9	0.4	11.03	107	559	199	151	1902	287.0	0.022	0.05	1.6	176	541	28.7	13-SEP-95:0500
G41360	3	8.0	0.4	14.14	96	706	210	191	2042	296.0	0.021	0.06	0.5	161	504	28.8	28-JUN-95:1200
G41361	3	8.2	0.7	16.70	151	812	321	174	2245	333.0	0.012	0.08	< 0.3	149	461	31.0	05-JUL-95:1200
G41362	3	7.5	0.6	9.91	138	1920	504	262	3698	590.0	0.022	0.08	29.0	377	346	28.7	10-JUL-95:1200
G41363	3	7.8	0.8	13.32	106	2364	645	341	4227	698.0	0.014	0.66	22.3	395	241	7.6	06-JUL-95:1200

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DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A60

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G41367	1	5.2	0.3	6.72	3	19	11	4	92	16.4	0.007	0.08	5.3	6	10	10.7	21-JUL-95:1600
G41368	1	8.1	0.6	0.04	10	36	31	5	212	31.2	0.015	0.05	3.1	20	86	5.1	25-JUL-95:1600
G41370	2	8.5	0.6	0.12	63	327	258	74	1362	199.0	0.039	0.08	13.3	60	465	22.7	11-AUG-95:0400
G41371	1	7.9	0.6	1.25	8	26	25	15	275	39.8	0.077	0.18	3.0	27	134	11.9	08-SEP-95:0400
G41373	1	8.0	0.4	1.18	6	25	24	15	270	38.7	0.027	< 0.04	3.0	27	134	11.7	07-SEP-95:0200
G42655	2	8.5	0.5	3.71	23	215	211	30	1035	144.0	0.062	0.08	14.9	44	393	18.1	10-MAR-95:1600
G42657	1	8.5	0.4	7.86	24	139	109	45	846	113.6	0.040	0.05	9.5	60	348	35.1	16-MAR-95:1445
G42657	1	8.2	0.8	8.65	19	127	104	47	831	111.4	0.020	< 0.04	7.5	62	348	38.8	09-APR-95:1800
G42658	1	8.4	0.4	8.86	24	140	122	44	841	116.0	0.030	< 0.04	7.7	55	335	35.2	16-MAR-95:1530
G42658	1	8.3	0.6	8.95	24	140	120	44	860	116.2	0.016	< 0.04	7.4	60	348	36.6	10-APR-95:1700
G42659	2	8.5	0.5	13.55	47	234	179	56	1213	157.0	0.034	0.04	15.6	76	447	35.8	16-MAR-95:1200
G42659	2	7.9	0.5	13.78	44	223	191	57	1190	171.0	0.024	< 0.04	17.2	78	425	37.9	07-JUL-95:1000
G42663	3	7.6	0.7	40.96	20	671	197	162	1885	281.0	0.019	0.04	31.5	161	378	24.7	11-APR-95:1500
G42663	3	8.0	1.0	40.04	34	674	194	160	1861	283.0	0.021	0.17	10.8	158	371	25.0	11-APR-95:1500
G42664	1	8.5	1.0	3.76	38	157	131	2	458	75.5	0.048	< 0.04	4.3	14	78	7.6	21-APR-95:1500
G42664	1	8.0	0.8	3.58	37	153	133	3	480	74.3	0.061	< 0.04	4.5	19	95	7.7	21-APR-95:1500
G42665	1	7.4	0.7	1.16	39	166	117	2	448	71.4	0.025	< 0.04	2.6	28	71	7.4	26-APR-95:1500
G42665	1	7.9	0.6	2.00	39	143	111	2	401	67.1	0.011	< 0.04	2.3	24	58	8.2	02-JUL-95:1214

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G42665	1	7.8	0.5	1.87	45	165	116	4	436	77.1	0.024	< 0.04	2.7	27	56	7.2	25-APR-95:1200
G42665	1	7.9	0.5	2.84	32	151	112	4	405	71.4	0.010	< 0.04	2.2	25	54	8.6	18-AUG-95:0300
G42666	3	7.8	0.3	2.65	62	1156	184	127	2080	394.0	0.012	0.04	8.8	379	124	20.3	04-MAY-95:0800
G42666	2	7.6	0.4	14.54	10	63	67	36	723	90.3	0.031	0.06	3.5	75	330	37.0	01-AUG-95:0300
G42667	2	7.7	0.4	4.00	39	353	162	13	871	156.0	0.023	< 0.04	3.1	122	132	18.5	06-MAY-95:1200
G42667	2	8.0	0.7	19.78	41	331	148	19	1009	174.0	0.020	< 0.04	1.6	150	188	23.7	03-AUG-95:1200
G42667	3	8.2	0.3	20.66	38	251	135	27	1038	160.0	0.017	< 0.04	1.0	139	291	28.4	21-AUG-95:0500
G42670	2	8.0	0.6	0.69	8	511	149	70	969	187.0	0.019	< 0.04	4.0	87	111	22.8	19-MAY-95:1200
G42681	2	8.0	2.6	2.27	15	56	100	6	402	54.8	0.024	< 0.04	4.5	11	162	3.6	23-JUN-95:1200
G42682	2	8.0	1.8	19.73	15	112	126	41	899	118.1	0.018	0.08	4.1	73	361	29.4	27-JUN-95:0900
G42684	1	8.4	0.7	6.94	25	92	138	31	795	104.3	0.026	< 0.04	5.0	46	350	27.0	03-JUL-95:1200
G42685	1	8.0	0.6	8.12	5	109	70	29	546	72.2	0.028	0.11	16.3	31	205	3.1	05-JUL-95:1200
G42687	1	7.8	0.5	5.11	7	58	86	14	514	65.8	0.026	0.06	9.7	33	232	5.9	10-JUL-95:1530
G42817	3	8.2	4.2	12.00	< 3	60	106	10	617	79.7	0.025	< 0.04	2.6	45	274	17.5	22-MAR-95:0900
G42817	3	8.0	7.5	0.50	18	73	122	3	495	71.0	0.029	< 0.04	2.1	27	197	10.0	20-JUN-95:1533
G42818	2	8.7	3.3	0.09	25	30	79	4	387	48.3	0.171	< 0.04	20.4	9	176	4.3	23-MAR-95:0900
G42827	3	8.2	6.6	< 0.04	16	311	272	19	1189	180.0	0.020	< 0.04	37.7	56	385	14.8	07-APR-95:0900
G42827	2	8.1	1.0	1.79	9	363	179	65	1164	185.0	0.019	0.10	3.1	86	368	21.6	10-MAY-95:1320

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G42828	3	8.2	6.4	< 0.04	17	271	264	19	1129	175.0	0.084	< 0.04	37.9	51	379	7.9	08-APR-95:0900
G42837	3	8.4	5.8	0.06	12	125	137	5	537	78.8	0.032	< 0.04	8.8	16	186	7.7	20-APR-95:0900
G42838	3	8.4	8.8	< 0.04	9	114	152	< 1	517	74.9	0.024	< 0.04	1.6	7	183	6.4	26-MAY-95:0910
G42840	1	7.8	1.4	0.57	4	4	87	26	596	61.4	0.015	0.05	0.6	25	365	34.9	03-MAY-95:0900
G42840	2	8.0	2.9	0.13	11	70	79	8	382	56.0	0.015	< 0.04	1.3	24	151	12.6	16-JUN-95:1430
G42841	1	8.0	1.2	3.31	< 3	63	54	21	478	61.4	0.011	2.51	2.1	42	225	5.7	03-MAY-95:0900
G42841	1	7.6	1.4	5.84	< 3	61	57	23	549	72.7	0.022	< 0.04	1.6	65	257	19.8	22-MAY-95:0722
G42842	3	8.1	1.0	21.94	14	597	195	83	1558	243.0	0.042	0.05	3.4	186	312	30.3	23-APR-95:0900
G42843	2	8.3	0.8	13.45	32	556	196	82	1456	223.0	0.017	< 0.04	8.3	148	307	31.4	24-APR-95:0900
G42843	2	8.0	0.5	16.56	7	559	205	84	1505	252.0	0.019	0.08	9.6	154	337	33.6	17-MAY-95:0835
G42844	1	8.2	0.8	0.34	12	29	16	6	189	25.3	0.056	0.19	19.1	13	75	6.3	03-MAY-95:0900
G42847	2	9.1	1.1	0.26	10	81	81	4	376	49.0	0.080	0.05	15.3	12	141	4.0	27-APR-95:0900
G42847	2	8.4	1.7	< 0.04	7	8	78	2	330	37.3	0.043	< 0.04	1.7	6	185	7.0	24-MAY-95:1040
G42852	2	8.2	0.6	15.83	6	223	132	44	960	141.0	0.060	0.11	7.9	85	321	30.7	31-MAY-95:1200
G42852	2	8.0	0.9	16.14	6	204	124	43	958	146.0	0.027	0.05	2.9	95	337	35.7	01-SEP-95:1145
G42853	3	8.2	0.6	20.76	56	374	288	75	1561	240.0	0.054	0.07	13.6	74	483	32.1	31-MAY-95:1200
G42857	3	7.9	0.6	2.54	363	1998	1124	271	4703	735.0	0.026	0.09	48.0	139	615	24.9	06-JUN-95:1200
G42859	3	8.2	0.5	23.56	3	252	110	45	970	151.0	0.035	0.13	9.5	115	270	32.9	07-JUN-95:1200

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G42860	2	8.1	0.6	11.69	7	90	81	32	824	99.3	0.033	0.17	34.8	78	367	14.6	08-JUN-95:1200
G42861	1	8.2	0.8	0.15	10	25	104	19	662	74.7	0.022	0.50	40.0	23	360	3.2	08-JUN-95:1200
G42863	1	8.0	0.6	9.35	15	114	102	17	531	81.5	0.017	0.68	11.5	34	160	2.7	13-JUN-95:1200
G42864	3	8.2	1.5	28.83	18	484	276	70	1548	228.0	0.040	0.17	17.1	110	364	23.7	14-JUN-95:1200
G42864	3	7.7	1.6	27.30	19	467	278	72	1500	239.0	0.028	0.25	2.5	97	362	29.5	05-SEP-95:1130
G42867	1	8.0	0.9	0.83	10	28	74	12	424	49.0	0.034	< 0.04	6.3	18	223	3.6	17-JUN-95:1200
G42869	1	8.0	1.4	0.33	10	26	49	11	500	56.9	0.056	0.05	41.2	39	264	10.7	19-JUN-95:1200
G43221	1	7.8	1.4	7.72	8	36	38	7	285	38.8	0.041	< 0.04	2.3	28	106	23.9	04-APR-95:1000
G43221	3	7.9	4.1	1.33	9	22	63	10	348	46.8	0.025	0.13	3.6	20	172	16.8	14-JUN-95:1220
G43222	2	8.2	2.6	15.37	24	50	91	17	554	70.3	0.010	< 0.04	3.3	37	214	17.0	10-APR-95:0900
G43222	2	7.4	2.3	14.33	13	44	91	16	526	71.2	0.020	< 0.04	1.7	37	211	16.5	10-JUN-95:0100
G43224	3	8.3	4.1	2.14	12	25	67	9	347	44.1	0.015	< 0.04	5.3	12	167	5.6	21-APR-95:1200
G43225	2	8.3	3.4	2.80	16	21	55	8	312	40.1	0.021	< 0.04	4.7	14	145	8.5	25-APR-95:1000
G43226	3	7.8	0.5	35.61	13	71	37	39	534	75.9	0.030	0.37	18.2	39	129	7.5	02-MAY-95:0900
G43230	1	8.4	0.6	1.94	7	155	142	25	717	97.0	0.027	< 0.04	6.7	33	278	26.4	15-MAY-95:1500
G43231	1	8.0	0.3	2.88	5	14	30	16	271	35.8	0.024	< 0.04	9.4	17	136	30.4	17-MAY-95:1300
G43246	1	8.0	0.7	1.94	7	5	26	14	296	37.1	0.020	< 0.04	1.7	28	168	27.4	20-JUN-95:1500
G43247	2	8.0	2.3	3.33	11	29	49	20	429	57.8	0.029	< 0.04	3.2	41	213	24.6	22-JUN-95:1500

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G43250	1	8.1	0.6	0.09	10	5	16	8	203	24.0	0.073	< 0.04	4.9	18	115	2.0	17-JUL-95:1300
G43250	1	7.8	0.4	0.42	7	9	22	17	319	37.9	0.025	0.05	6.3	34	182	37.5	18-AUG-95:1230
G43251	1	8.0	0.3	6.36	16	42	25	23	378	54.0	0.030	0.06	6.6	47	156	43.9	19-AUG-95:0830
G43257	2	8.4	0.6	18.14	27	200	157	65	1101	150.0	0.019	0.07	15.2	69	399	38.0	26-MAY-95:1100
G43257	2	7.7	0.5	11.15	16	95	74	37	603	85.1	0.013	< 0.04	8.1	39	233	23.3	05-JUL-95:0400
G43258	3	8.4	1.1	23.04	72	462	504	41	2002	261.0	0.042	0.06	28.4	31	623	36.1	31-MAY-95:0900
G43259	3	8.3	0.8	21.03	113	822	631	83	2491	372.0	0.028	0.08	30.7	72	529	31.6	09-JUN-95:1400
G43260	3	8.0	0.9	21.23	104	743	668	68	2545	350.0	0.023	0.06	30.7	41	652	38.9	20-JUN-95:1100
G43263	1	8.3	0.4	4.34	11	20	44	83	751	90.3	0.027	0.10	15.8	20	442	30.3	16-JUN-95:1200
G43266	1	7.8	0.8	8.09	28	148	139	29	787	111.5	0.021	0.04	9.2	50	284	16.3	23-JUN-95:1200
G43267	1	8.7	0.4	0.47	17	17	72	72	752	85.9	0.021	0.04	27.1	7	441	27.1	26-JUN-95:1200
G43269	1	8.4	0.6	1.66	15	70	74	83	860	104.2	0.028	< 0.04	5.5	29	472	42.4	29-JUN-95:1200
G43272	1	8.1	0.9	9.12	75	165	90	73	963	143.0	0.027	0.07	29.9	72	341	15.9	07-JUL-95:1200
G43273	3	8.4	1.3	22.37	117	153	218	97	1399	190.0	0.010	0.04	6.3	37	549	35.2	23-JUL-95:0650
G43273	3	8.8	1.7	22.83	127	172	227	98	1456	181.0	0.095	0.08	7.4	39	560	34.9	10-JUL-95:1200
G43274	2	7.7	1.3	13.06	16	6	35	28	399	50.0	0.008	< 0.04	4.3	23	187	35.6	17-JUL-95:0105
G43274	2	8.5	1.2	10.96	14	6	35	26	376	45.6	0.015	< 0.04	5.1	22	179	34.2	11-JUL-95:1400
G43275	2	8.5	1.3	9.25	128	189	211	104	1439	181.0	0.029	0.17	8.3	43	584	23.1	19-JUL-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A60

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43276	1	8.3	0.8	7.73	26	113	144	23	791	101.5	0.053	0.05	10.0	50	319	30.6	30-MAY-95:0930
G43277	1	8.4	0.6	8.52	27	148	136	32	837	116.3	0.023	< 0.04	15.1	56	315	28.6	31-MAY-95:1200
G43278	2	7.6	0.8	5.39	43	298	198	69	1268	189.0	0.019	0.27	17.8	76	444	15.4	06-JUN-95:1700
G43279	3	8.1	0.5	38.16	86	296	220	74	1539	249.0	0.031	0.23	18.7	106	466	26.4	08-JUN-95:1000
G43280	3	8.0	0.5	31.68	35	230	112	73	1132	158.0	0.016	0.09	10.1	96	357	35.2	20-JUN-95:1000
G43283	1	7.6	0.5	1.03	9	54	14	86	883	105.6	0.023	0.22	2.0	92	510	29.4	17-AUG-95:1100
G43289	1	7.8	0.9	1.06	5	15	35	18	412	51.1	0.016	1.09	4.9	40	236	16.7	16-AUG-95:1000
G43290	1	7.7	0.5	0.06	10	33	32	20	358	49.7	0.018	0.05	13.2	33	178	6.8	24-AUG-95:1000
G43291	1	8.0	0.6	0.15	10	14	48	22	569	66.6	0.013	< 0.04	34.4	51	318	15.9	28-AUG-95:0100
G43292	1	7.8	0.6	0.07	10	10	32	28	521	60.9	0.030	< 0.04	19.5	47	306	19.9	05-SEP-95:1200
G43293	1	8.0	0.6	0.11	9	14	45	31	545	60.3	0.018	< 0.04	9.9	46	320	20.9	07-SEP-95:1100
G43295	2	8.2	3.1	0.17	9	20	101	9	558	66.4	0.021	< 0.04	3.8	32	311	11.0	13-SEP-95:1200
G43297	1	8.4	0.7	4.58	9	96	111	16	545	73.9	0.053	0.05	4.6	23	217	21.4	19-SEP-95:0100
G43305	3	8.2	0.6	28.43	17	16	14	96	779	96.0	0.031	0.05	2.5	38	384	29.9	23-AUG-95:0400
G43306	2	8.0	1.5	7.37	7	12	61	19	533	63.9	0.033	< 0.04	2.4	47	287	30.7	30-AUG-95:1200
G43307	1	8.1	1.2	5.66	9	20	26	10	347	44.2	0.025	< 0.04	3.5	46	168	21.1	05-SEP-95:0300
G43308	1	8.0	0.4	5.84	11	19	25	10	333	44.4	0.036	< 0.04	3.1	44	160	21.2	08-SEP-95:0400
G43309	1	8.0	1.0	7.49	11	12	61	19	534	64.5	0.041	< 0.04	2.7	47	284	30.7	12-SEP-95:0200

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A60

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43424	2	7.9	1.1	5.88	18	213	171	38	1127	155.0	0.012	< 0.04	2.6	105	452	31.6	10-APR-95:1720
G43424	2	8.1	1.9	6.91	26	271	216	35	1105	169.0	0.007	< 0.04	2.7	69	371	29.8	08-APR-95:1130
G43425	2	8.0	1.7	6.93	30	274	218	35	1208	170.0	0.014	0.04	3.0	91	431	29.3	10-APR-95:1200
G43427	1	8.1	1.2	7.07	16	93	94	34	746	90.8	0.013	< 0.04	3.9	60	338	22.2	24-APR-95:0930
G43432	2	8.4	1.5	13.97	6	137	69	72	817	114.0	0.027	0.06	4.1	55	336	35.1	30-MAY-95:1100
G43433	1	8.4	1.3	1.72	4	5	55	30	541	62.6	0.038	0.05	6.9	37	322	28.6	07-JUN-95:1500
G43517	3	8.0	4.1	0.11	8	34	56	6	345	45.4	0.025	< 0.04	3.0	30	168	13.9	28-FEB-95:0900
G43518	2	8.0	2.4	1.71	6	133	148	26	871	111.2	0.028	0.04	4.7	61	395	27.4	02-MAR-95:1430
G43518	2	7.0	2.3	0.84	9	126	131	24	815	104.7	0.013	< 0.04	1.6	64	371	23.9	29-APR-95:1610
G43522	1	7.9	0.8	0.26	19	21	73	43	753	78.2	0.057	< 0.04	1.6	51	445	31.5	18-MAR-95:1530
G43522	1	8.0	1.2	1.15	5	15	70	43	778	84.5	0.009	< 0.04	1.0	61	473	33.2	06-APR-95:1340
G43525	1	8.0	0.7	0.11	9	41	67	52	813	88.2	0.154	< 0.04	8.2	56	475	23.1	27-MAR-95:1030
G43525	1	8.2	1.2	0.48	17	34	66	59	859	92.7	0.020	0.05	3.6	67	499	36.5	08-APR-95:1400
G43526	2	8.3	1.5	0.09	10	292	170	32	869	137.0	0.026	0.05	23.2	56	232	7.3	28-MAR-95:1620
G43526	2	8.2	2.1	0.04	12	255	146	32	1057	151.0	0.010	< 0.04	2.1	122	398	18.4	09-APR-95:0900
G43528	1	8.1	1.0	0.69	< 3	23	48	54	797	83.2	0.013	< 0.04	2.3	66	490	28.6	04-APR-95:1350
G43528	1	7.8	0.7	0.62	7	20	49	57	906	98.9	0.013	< 0.04	2.0	94	552	32.4	07-APR-95:1610
G43529	2	8.3	1.2	13.76	< 3	87	114	59	939	108.9	0.010	0.04	1.5	52	460	36.3	05-APR-95:1120

KEY CLASS: 1 Suitable for potable use

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15-Nov-1995 11:31 AM

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

Page 10

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A60

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43529	2	7.0	1.3	15.01	8	88	114	62	931	111.6	0.019	< 0.04	1.6	58	436	34.8	26-APR-95:1200
G43530	2	8.3	1.4	11.93	10	90	138	50	950	115.1	0.009	< 0.04	2.9	47	457	37.5	06-APR-95:1300
G43531	2	8.3	1.1	11.82	9	86	122	54	965	110.5	0.011	< 0.04	1.9	60	474	37.2	07-APR-95:1600
G43534	2	8.2	2.6	1.39	6	129	165	24	843	109.0	0.017	< 0.04	4.4	39	382	31.3	21-APR-95:1400
G43543	2	8.4	0.7	16.05	33	146	104	74	890	118.1	0.057	0.06	6.0	45	336	32.9	15-MAY-95:1700
G43544	2	8.4	0.9	16.16	33	144	104	75	893	121.1	0.061	0.06	6.1	45	339	32.8	16-MAY-95:1430
G43545	2	8.2	1.8	6.33	22	184	193	33	1022	141.0	0.030	0.23	9.4	52	409	14.5	17-MAY-95:1300
G43546	2	8.1	1.8	6.31	24	182	193	32	1011	141.0	0.025	0.48	9.5	52	400	14.6	18-MAY-95:1500
G43547	2	8.1	1.6	6.20	34	183	192	34	1005	142.0	0.034	1.12	9.4	57	382	14.5	19-MAY-95:1430
G43553	1	7.7	1.0	0.05	24	95	139	29	829	102.5	0.042	1.09	5.0	51	396	23.7	07-JUN-95:1420
G72842	3	8.0	1.0	20.69	19	587	196	82	1505	258.0	0.035	< 0.04	3.7	187	277	33.0	11-MAY-95:0830
GLEN1	3	8.6	1.4	1.06	59	477	418	55	1633	229.0	0.017	< 0.04	5.2	26	481	45.4	26-APR-95:0700
GLEN2	2	7.9	1.3	0.73	38	292	278	36	1158	167.0	0.028	< 0.04	3.9	36	385	31.0	29-APR-95:0800
GLEN3	2	7.5	1.3	0.70	36	287	261	38	1119	167.0	0.017	< 0.04	3.9	34	372	32.8	11-APR-95:0900
GLEN4	2	7.7	1.9	0.83	36	284	270	37	1143	169.0	0.021	< 0.04	3.9	32	389	32.5	06-APR-95:0700
H040563	1	7.0	0.5	6.63	13	199	72	44	668	104.3	0.017	< 0.04	4.4	63	199	16.8	21-JUN-95:1630
H110478	2	8.0	0.6	9.64	31	238	163	50	1052	145.0	0.014	0.04	6.9	70	370	32.1	19-MAR-95:1600
H110657	2	7.0	0.8	19.86	27	224	170	37	1008	137.0	0.031	< 0.04	6.9	77	310	35.6	07-FEB-95:1000

KEY CLASS: 1 Suitable for potable use

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A60

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
H110725	1	8.0	0.4	9.69	6	34	33	21	379	55.5	0.011	< 0.04	1.9	37	167	35.2	16-MAR-95:0700
H110731	2	7.0	0.5	9.10	66	240	114	59	940	136.0	0.012	< 0.04	3.3	77	279	36.7	18-MAR-95:1100
H110753	2	7.0	0.3	18.83	12	8	25	42	663	78.7	0.009	0.18	0.6	74	344	29.5	17-MAR-95:2100
HH1	2	8.7	1.1	1.87	56	255	199	52	1070	156.0	0.024	0.11	20.6	36	363	25.4	05-APR-95:1100
MASETE	2	7.5	1.2	7.25	34	180	170	49	1066	129.7	0.021	< 0.04	4.4	70	432	27.8	16-AUG-95:0800
MOKABA	1	7.7	0.4	0.05	24	97	63	21	542	77.4	0.012	0.04	2.5	58	226	19.4	20-JUL-95:1200
PUDIAGK	2	8.1	1.0	6.83	22	272	218	34	1114	170.0	0.012	0.04	2.3	77	375	30.8	30-APR-95:1025
SKRIK	2	8.1	1.6	< 0.04	6	6	66	2	328	36.6	0.025	< 0.04	2.1	15	188	8.1	19-MAY-95:0810
T1704	3	7.0	0.6	70.50	< 3	153	65	43	684	103.1	0.011	0.07	8.2	62	30	15.7	22-MAR-95:1400
T1792	2	8.0	0.5	13.45	26	86	93	49	809	99.6	0.021	< 0.04	3.7	56	358	38.4	15-MAR-95:1030
T3122	3	8.0	0.7	30.35	9	88	46	57	856	110.6	0.077	0.05	2.9	97	345	22.3	01-MAY-95:1500

KEY CLASS: 1 Suitable for potable use

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15-Nov-1995 11:31 AM

## WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

### INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

Page 12

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A70

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
2250LPM	3	8.1	0.7	13.16	60	628	181	138	1815	262.0	0.022	0.04	77.3	131	443	26.0	22-APR-95:1800
G40341	1	8.0	0.3	2.03	37	178	118	70	968	123.6	0.037	< 0.04	14.0	56	398	27.9	03-FEB-95:0900
G41310	2	8.1	0.5	13.04	49	256	165	115	1276	170.0	0.018	0.15	9.6	41	478	22.4	11-APR-95:0430
G41340	1	8.0	0.4	3.44	27	146	87	68	718	103.5	0.021	0.04	12.2	19	283	25.7	10-FEB-95:1400
G41341	1	8.0	0.3	2.89	39	164	101	62	775	104.8	0.028	0.05	12.3	28	292	23.8	15-FEB-95:1100
G41342	1	8.0	0.3	1.06	21	85	52	29	417	59.6	0.022	< 0.04	6.3	23	161	31.1	21-FEB-95:1530
G41342	1	8.0	0.3	2.48	44	183	118	61	921	115.6	0.040	< 0.04	12.8	59	354	23.0	02-FEB-95:1300
G42220	1	7.8	1.3	8.15	9	27	61	20	474	56.6	0.019	0.04	7.5	32	230	32.2	18-JUL-95:1200
G42361	1	8.0	0.4	1.01	42	179	99	57	710	104.7	0.034	< 0.04	6.2	26	242	34.6	18-FEB-95:1300
G42364	1	8.0	0.5	1.08	38	158	91	52	694	93.8	0.043	0.05	6.4	34	254	29.6	17-FEB-95:1530
G42366	1	8.6	0.8	1.36	14	36	91	13	473	57.7	0.068	< 0.04	3.9	14	242	34.5	23-FEB-95:1100
G42367	1	8.0	0.6	0.92	27	120	78	66	752	98.1	0.022	< 0.04	5.9	35	341	36.8	28-FEB-95:1259
G42368	2	8.0	1.7	14.98	48	477	184	116	1358	217.0	0.011	< 0.04	12.2	91	298	33.6	08-FEB-95:1100
G42369	1	8.0	0.6	3.30	32	158	43	77	779	104.1	0.017	< 0.04	5.9	65	315	37.2	12-FEB-95:0829
G42370	1	8.0	0.5	0.91	27	87	81	52	724	91.2	0.019	< 0.04	4.7	39	351	37.4	13-FEB-95:1400
G42524	1	7.0	0.4	2.45	32	101	120	35	801	108.8	0.022	0.07	3.5	60	359	31.2	15-NOV-94:1000
G42524	1	7.0	0.5	2.41	28	100	117	35	791	107.6	0.020	0.04	3.6	61	357	31.4	15-NOV-94:1140
G42524	1	7.0	0.5	2.47	28	106	117	35	800	107.5	0.027	< 0.04	3.5	62	359	31.7	15-NOV-94:1320

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A70

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G42524	1	8.0	0.5	2.41	30	108	120	36	817	108.3	0.010	< 0.04	3.8	62	366	31.6	15-NOV-94:1430
G42524	1	7.0	0.5	2.77	29	106	119	35	808	108.3	0.025	< 0.04	3.4	61	362	31.9	16-NOV-94:1600
G42524	1	8.0	0.5	2.77	29	113	120	35	818	109.8	0.013	< 0.04	3.3	63	363	32.1	17-NOV-94:0400
G42524	1	7.0	0.5	3.29	29	112	121	36	821	111.2	0.027	< 0.04	3.3	65	360	32.6	17-NOV-94:1600
G42524	1	8.0	0.5	3.45	30	113	123	36	825	111.2	0.024	< 0.04	3.3	65	360	32.5	18-NOV-94:0400
G42527	3	7.0	0.4	24.41	145	373	214	85	1690	234.0	0.033	< 0.04	9.1	155	493	28.8	19-NOV-94:1530
G42527	3*	7.0	0.5	24.17	144	377	218	87	1699	212.0	0.036	< 0.04	9.2	160	489	28.9	19-NOV-94:1710
G42527	3	8.0	0.4	24.18	148	359	216	87	1670	214.0	0.071	< 0.04	9.3	154	484	29.1	19-NOV-94:1830
G42527	3	7.0	0.3	23.75	146	345	211	75	1661	209.0	0.031	< 0.04	8.9	156	503	29.2	19-NOV-94:2030
G42527	3	7.0	0.3	23.37	146	343	209	75	1643	210.0	0.011	< 0.04	9.0	156	493	29.2	19-NOV-94:2141
G42527	3	7.0	0.3	20.43	138	282	194	74	1529	196.0	0.030	< 0.04	8.4	149	486	29.3	22-NOV-94:1600
G42527	3	7.0	0.3	21.32	142	294	198	74	1558	202.0	0.030	< 0.04	8.5	150	490	29.5	23-NOV-94:0400
G42527	2	7.0	0.3	19.55	141	273	194	74	1517	193.0	0.031	< 0.04	8.4	146	488	29.6	23-NOV-94:1600
G42529	1	7.0	0.4	1.60	19	99	101	29	645	85.3	0.028	< 0.04	4.2	47	277	31.5	14-NOV-94:1130
G42529	1	7.0	0.4	7.95	17	93	98	29	659	83.7	0.029	0.08	4.1	48	275	32.1	24-NOV-94:1300
G42529	1	7.0	0.6	7.82	16	92	98	29	657	90.8	0.029	< 0.04	4.1	47	276	32.1	24-NOV-94:1430
G42529	1	7.0	0.5	7.68	17	92	98	29	656	91.0	0.025	< 0.04	4.0	47	275	32.0	24-NOV-94:1800
G42529	1	8.0	0.5	7.69	19	98	97	29	658	88.1	0.005	< 0.04	4.2	52	267	31.1	25-NOV-94:1700

KEY CLASS: 1  Suitable for potable use

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A70

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G42529	1	8.0	0.5	7.56	53	88	99	30	688	86.6	< 0.005	< 0.04	4.2	52	270	31.0	26-NOV-94:0900
G42529	1	8.0	0.5	7.22	19	106	100	31	676	83.9	< 0.005	< 0.04	4.2	48	276	30.9	26-NOV-94:1700
G42529	1	8.0	0.4	7.50	19	103	98	30	665	86.9	< 0.005	< 0.04	4.3	50	268	30.6	27-NOV-94:0900
G42533	2	7.9	1.3	9.84	51	271	324	27	1346	188.0	0.023	0.04	5.2	42	476	34.0	18-JUL-95:1200
G42534	1	8.0	0.6	8.86	19	72	101	53	898	112.7	0.037	< 0.04	2.6	62	449	24.4	15-JAN-95:1600
G42571	1	8.0	1.4	5.74	15	23	85	19	487	63.2	0.015	< 0.04	3.3	22	240	19.3	23-NOV-94:1100
G42571	2	8.0	1.6	0.39	20	89	127	32	786	102.1	0.017	< 0.04	3.1	44	383	17.4	10-JAN-95:0500
G42572	1	8.0	1.0	5.73	13	23	86	19	483	56.7	0.011	< 0.04	3.3	22	239	19.4	24-NOV-94:1030
G42573	1	8.0	0.8	5.81	13	24	85	19	482	58.9	0.019	< 0.04	3.2	22	237	19.3	26-NOV-94:1200
G42573	1	8.0	0.7	0.24	17	24	48	22	414	52.7	0.019	< 0.04	3.9	26	222	23.1	10-JAN-95:1650
G42575	1	8.0	0.8	5.95	14	25	85	19	487	58.6	0.017	< 0.04	3.3	22	239	19.2	30-NOV-94:1200
G42576	1	8.0	0.8	5.46	12	18	73	16	430	53.5	0.013	< 0.04	3.0	23	214	20.5	03-DEC-94:1200
G42577	2	8.0	0.7	11.45	28	89	152	48	971	108.0	0.024	< 0.04	3.3	45	455	23.9	06-DEC-94:1200
G42578	2	8.0	1.0	9.56	30	150	194	43	1058	126.8	0.017	< 0.04	5.9	43	450	22.7	07-DEC-94:1200
G42578	2	8.0	0.8	10.18	26	137	188	44	925	127.8	0.016	0.30	3.4	23	375	28.1	15-JAN-95:1200
G42579	2	8.0	1.5	1.66	22	137	174	30	843	103.3	0.043	< 0.04	17.7	22	354	8.4	08-DEC-94:1430
G42587	2	8.3	2.5	1.98	27	128	247	7	930	115.4	0.020	< 0.04	2.4	11	406	25.7	16-MAR-95:1200
G42588	2	9.0	1.1	3.94	22	198	277	28	1097	146.0	0.023	< 0.04	1.4	10	444	24.6	14-FEB-95:1000

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A70

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G42589	2	8.0	1.8	6.12	17	171	217	30	1011	137.0	0.014 <	0.04	5.0	35	416	21.1	15-FEB-95:1500
G42589	2	8.5	1.2	6.24	20	164	204	31	1026	134.0	0.013 <	0.04	1.4	43	438	26.0	04-APR-95:1030
G42624	1	8.0	0.6	2.94	17	74	102	63	917	112.2	0.023 <	0.04	5.0	46	490	27.6	09-JAN-95:1120
G42625	2	8.0	3.8	2.80	69	111	371	19	1528	184.0	0.018	0.08	13.7	21	745	23.4	08-NOV-94:1300
G42626	2	8.0	2.2	2.49	25	60	145	15	635	84.0	0.022 <	0.04	5.8	17	291	24.4	10-NOV-94:1100
G42626	2	8.0	1.7	2.42	21	52	132	17	684	80.6	0.029	0.09	3.8	29	342	31.9	07-JAN-95:1200
G42629	3	8.0	2.9	4.18	45	242	413	21	1517	189.0	0.049 <	0.04	7.3	20	613	26.6	17-NOV-94:1430
G42629	2	8.2	2.6	4.17	43	222	351	24	1435	185.0	0.014 <	0.04	3.8	28	609	31.0	17-MAR-95:1500
G42630	2	8.0	4.0	4.72	105	208	389	16	1487	171.0	0.021 <	0.04	10.6	19	586	18.9	16-NOV-94:1130
G42652	1	8.0	0.4	8.06	18	103	119	45	846	106.4	0.029 <	0.04	12.0	46	384	34.5	07-MAR-95:1700
G42652	1	7.0	0.5	8.01	17	104	119	44	846	110.2	0.019 <	0.04	12.2	44	386	32.4	26-MAR-95:1900
G42653	2	8.0	0.2	12.37	23	164	149	55	969	133.0	0.016 <	0.04	14.0	54	373	29.7	08-MAR-95:1630
G42653	2	7.0	0.5	15.52	23	159	139	53	1008	139.0	0.011 <	0.04	12.9	60	404	29.2	29-MAR-95:1400
G42654	2	8.4	0.8	11.64	27	155	146	47	937	118.8	0.053	0.04	13.9	46	369	29.7	09-MAR-95:1600
G42654	2	7.7	0.4	12.03	21	154	144	45	967	133.0	0.013 <	0.04	12.4	54	395	30.2	28-MAR-95:2100
G42747	2	8.3	0.4	17.22	21	111	100	33	647	87.7	0.021	0.08	10.9	37	211	13.9	08-JUN-95:1500
G42748	2	8.5	0.4	13.71	16	18	79	31	591	69.8	0.009 <	0.04	12.8	30	281	26.3	14-JUN-95:1300
G42749	2	7.8	2.3	3.22	17	213	200	37	1006	146.0	0.038	0.04	6.1	57	377	18.1	15-JUN-95:1600

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A70

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G42750	2	8.2	1.6	2.45	23	57	145	20	718	88.7	0.011	< 0.04	5.8	28	350	16.4	20-JUN-95:1430
G42751	2	8.2	0.7	19.71	19	74	98	56	855	109.9	0.022	0.11	14.2	48	376	21.9	23-JUN-95:1100
G42752	2	8.0	0.2	19.62	21	73	99	59	851	102.9	0.017	0.05	7.3	47	376	24.9	27-JUN-95:1130
G42764	3	8.4	0.3	35.32	35	143	131	47	882	124.4	0.024	0.06	21.0	50	245	19.5	25-JUL-95:1100
G43215	2	7.0	0.3	12.19	23	567	194	100	1378	249.0	0.011	0.05	12.9	110	260	25.7	28-FEB-95:0830
G43215	3	7.0	0.4	25.77	21	537	202	103	1548	258.0	0.006	0.05	11.9	127	354	26.1	22-MAR-95:0200
G43216	3	8.0	1.1	99.28	132	345	170	151	1910	274.0	0.020	0.16	19.3	167	398	29.0	06-MAR-95:1400
G43217	1	8.0	0.7	6.97	34	132	114	45	873	113.8	0.015	< 0.04	10.8	64	362	24.1	08-MAR-95:1100
G43217	1	7.8	1.1	6.67	43	129	114	44	869	116.7	0.010	< 0.04	10.9	66	355	24.2	12-APR-95:1200
G43217	1	7.9	0.8	6.55	35	139	115	41	867	103.5	0.028	0.06	11.3	60	357	23.1	18-JUL-95:1200
G43218	2	8.5	0.6	19.18	27	176	121	56	935	123.6	0.050	0.08	16.6	59	323	31.7	13-MAR-95:1600
G43218	2	7.8	0.5	18.25	23	169	118	56	935	123.6	0.017	0.20	15.0	63	336	33.7	06-APR-95:2000
G43220	2	8.3	0.7	13.13	18	66	71	25	556	76.1	0.033	0.05	13.9	35	219	28.1	23-MAR-95:1300
G43220	2	7.0	1.1	10.42	16	56	68	25	575	70.3	0.017	0.04	13.5	39	253	31.4	20-APR-95:2000
G43228	1	8.3	0.6	3.75	10	61	80	13	440	58.3	0.033	0.11	8.2	21	188	19.3	09-MAY-95:1200
G43232	2	8.0	0.4	12.42	41	214	158	68	1073	151.0	0.018	< 0.04	18.6	60	376	32.4	23-MAY-95:1000
G43234	1	8.4	0.7	9.45	35	155	132	48	916	118.6	0.028	0.04	12.0	63	352	22.8	26-MAY-95:0800
G43234	2	7.7	0.9	10.52	42	145	132	47	930	125.0	0.007	< 0.04	12.0	63	362	27.4	11-JUL-95:0430

KEY CLASS: 1 Suitable for potable use

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15-Nov-1995 11:31 AM

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

Page 17

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A70

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43235	1	8.0	0.3	7.56	28	158	146	61	987	124.2	0.060	0.11	14.3	39	415	21.4	06-MAR-95:1630
G43236	2	7.0	0.3	7.54	31	187	140	70	1120	154.0	0.023	0.04	12.8	74	469	32.4	08-MAR-95:1200
G43236	3	7.0	0.4	23.72	28	182	139	68	1122	155.0	0.013	< 0.04	12.0	72	424	31.9	24-MAR-95:2000
G43237	2	8.2	0.5	4.19	33	263	117	48	895	136.0	0.016	< 0.04	64.1	46	249	15.1	10-MAR-95:0800
G43238	2	8.4	0.5	5.61	28	230	133	55	928	140.0	0.057	0.06	20.5	56	311	38.0	17-MAR-95:1400
G43238	2	8.0	0.7	5.24	26	207	116	52	886	121.8	0.039	< 0.04	27.9	54	310	40.0	08-APR-95:1100
G43239	2	8.0	0.3	13.93	15	72	69	24	483	68.8	0.029	< 0.04	10.2	23	171	31.6	27-MAR-95:1300
G43239	2	7.0	0.5	14.02	8	68	69	25	484	66.4	0.013	< 0.04	7.9	25	180	35.7	13-APR-95:1900
G43240	2	7.9	0.5	18.88	6	63	61	22	409	57.3	0.022	0.07	6.7	20	120	37.3	30-MAR-95:0900
G43240	2	7.1	0.5	18.48	3	65	62	23	422	62.9	0.013	< 0.04	6.7	21	129	41.0	19-APR-95:1620
G43245	1	7.8	0.8	0.05	15	125	94	31	613	83.1	0.031	0.12	6.0	35	250	5.7	24-APR-95:1200
G43245	1	7.7	0.7	4.77	17	130	108	42	751	94.1	0.042	< 0.04	9.6	41	312	32.1	13-JUL-95:0815
G43255	1	8.0	0.4	3.94	43	109	106	25	663	89.2	0.023	< 0.04	22.2	41	245	35.1	18-MAY-95:1400
G43256	1	8.0	0.4	5.57	35	136	112	31	704	95.7	0.027	< 0.04	14.1	49	248	33.8	22-MAY-95:1500
G43256	1	7.0	0.6	5.57	31	147	112	30	730	97.9	0.025	< 0.04	13.8	48	264	30.8	25-JUN-95:1530
G43276	1	8.0	0.7	7.93	24	116	144	23	794	104.4	0.038	< 0.04	10.1	49	321	30.7	27-JUN-95:2000
G43531	2	7.0	1.3	12.09	8	84	122	55	943	115.5	0.021	< 0.04	1.7	61	456	33.7	26-APR-95:1000
GAMADIK	1	7.0	0.4	3.51	23	145	88	73	860	106.6	0.042	< 0.04	12.0	45	375	34.3	06-FEB-95:1100

KEY CLASS: 1 Suitable for potable use

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A70

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
GAMASO	2	7.7	1.1	11.36	13	108	90	27	587	87.5	0.020 <	0.04	8.0	43	201	30.4	07-JUN-95:2200
H010357	2	7.0	1.0	19.41	594	290	209	155	1984	255.0	0.023	0.37	13.0	157	392	14.0	26-APR-95:1500
H010976	2	7.0	0.9	14.89	17	24	105	44	788	89.3	0.021 <	0.04	5.2	38	400	29.4	24-APR-95:1915
H040043	1	7.7	0.6	3.70	24	54	85	19	518	64.7	0.041 <	0.04	7.1	30	231	33.2	15-JUL-95:0630
H040575	1	7.0	0.6	9.79	9	56	69	17	419	61.8	0.050 <	0.04	8.3	27	155	32.6	19-MAY-95:2200
H101974	2	8.0	1.4	15.51	18	41	128	41	834	100.7	0.018 <	0.04	4.2	41	404	27.0	23-APR-95:2300
H110216	1	7.9	0.6	3.47 <	3	188	121	56	878	126.8	0.037	0.04	14.0	57	349	35.0	18-JUL-95:1200
H110484	1	7.0	0.3	7.91	21	189	111	64	919	118.3	0.036	0.06	12.8	60	349	38.2	06-FEB-95:1000
H110485	2	7.0	0.3	9.36	31	186	126	70	1040	126.4	0.038 <	0.04	16.6	57	419	34.2	03-FEB-95:0800
H110560	2	8.0	0.7	13.62	39	180	164	65	1117	154.0	0.015 <	0.04	18.0	53	441	37.4	08-JUL-95:0430
H110672	2	8.0	1.1	2.99	39	110	161	63	1067	128.7	0.030 <	0.04	20.0	35	512	37.1	23-APR-95:1430
H110677	3	7.5	0.3	12.95	5	814	162	118	1816	311.0	0.011	0.04	2.6	254	330	35.5	18-MAR-95:1500
H110700	3	8.3	0.4	12.46	51	614	219	134	1803	294.0	0.011	0.06	21.2	149	458	31.2	18-JUL-95:1632
L1311	1	7.4	0.8	5.97	5	80	72	17	406	60.4	0.025 <	0.04	4.0	24	145	32.1	05-JUN-95:2115
MADITSA	1	7.9	0.5	0.46	9	18	31	2	144	18.1	0.108	0.12	3.4	2	62	20.3	18-JUL-95:1200
SEFATEN	2	7.9	1.1	14.03	30	72	83	25	547	76.6	0.013	1.64	2.8	31	195	4.7	18-JUL-95:1200
T1342	1	7.6	1.0	5.22	8	75	79	22	512	70.0	0.030 <	0.04	5.7	35	215	27.8	24-MAY-95:0330
T1767	2	8.0	0.9	11.95	23	51	141	15	687	78.1	0.023 <	0.04	6.9	22	308	27.4	22-APR-95:2100

KEY CLASS: 1  Suitable for potable use

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

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DEPARTMENT OF WATER AFFAIRS AND FORESTRY

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T1849	1	7.0	0.5	9.66	15	78	80	21	492	71.4	0.056 <	0.04	8.8	29	179	32.9	16-MAY-95:1200
T3014	2	8.3	0.5	9.96	126	242	186	68	1299	170.0	0.018	0.05	4.5	86	445	22.7	11-AUG-95:0900
T3347	2	8.0	1.2	7.88	37	175	188	44	1093	143.0	0.043	0.04	3.0	63	449	27.7	01-MAY-95:0940
T3535	2	7.9	0.5	9.14	73	179	138	94	1326	177.0	0.026	0.04	5.3	91	578	34.8	20-AUG-95:0800
T3590	2	8.0	0.5	10.59	23	144	198	71	1248	170.0	0.034	0.04	6.4	46	585	31.4	21-AUG-95:0600
T3617	2	7.7	0.6	5.09	35	300	209	102	1489	213.0	0.022	0.05	7.1	81	600	26.0	24-AUG-95:0700
T3627	2	8.0	0.5	9.67	23	147	177	71	1205	160.0	0.030	0.04	6.4	46	567	33.9	02-SEP-95:0235
T3664	3	7.8	0.5	25.74	19	111	101	75	1010	118.8	0.017	0.04	7.5	52	435	30.2	06-SEP-95:1100
T3675	1	8.0	0.5	3.77	10	18	120	39	773	87.2	0.018 <	0.04	4.3	31	438	27.6	09-SEP-95:1031
TCHEBEN	1	7.0	0.5	2.44	8	42	69	18	435	60.2	0.048 <	0.04	6.1	28	207	33.1	22-MAY-95:1530
WESTPHA	1	8.1	0.5	3.25	26	137	89	73	848	115.9	0.038	0.07	14.7	37	375	35.0	07-JUL-95:0700

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A80

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
B735	1	6.0	0.2	0.93	9	25	10	3	81	11.4	0.009	< 0.04	9.0	4	14	6.0	29-NOV-94:1700
B831	1	7.0	0.3	4.71	18	134	67	43	644	92.3	0.016	< 0.04	2.7	57	247	11.1	17-FEB-95:1300
G40383	1	7.0	0.3	< 0.04	28	78	52	24	423	60.5	0.016	< 0.04	1.6	34	168	13.5	07-FEB-95:1000
G40387	1	6.6	0.8	0.20	9	8	5	2	54	6.5	0.008	0.40	1.2	2	20	3.4	20-JAN-95:1000
G42544	3	10.1	3.5	0.05	11	33	90	1	297	38.4	0.031	0.04	1.9	1	127	37.8	17-JUL-95:1200
G42552	1	7.0	0.3	4.23	< 3	9	7	7	99	14.3	0.008	< 0.04	1.6	9	35	7.7	15-NOV-94:1200
G42554	1	6.8	0.6	2.19	7	7	6	3	62	8.4	0.033	< 0.04	1.4	4	19	4.8	10-MAY-95:1200
G42561	2	7.1	0.5	14.80	8	66	47	44	656	86.5	0.014	0.16	0.8	57	301	23.2	17-JUL-95:1200
G43145	1	8.0	0.8	2.23	19	54	54	10	301	42.9	0.015	< 0.04	3.4	17	108	16.1	22-FEB-95:1200
G43145	1	8.3	0.4	4.51	56	134	75	43	628	91.8	0.208	< 0.04	3.6	51	202	17.4	29-MAY-95:1200
G43146	1	8.0	1.1	0.06	34	52	78	< 1	259	39.5	0.007	< 0.04	2.6	3	71	20.0	23-FEB-95:0800
G43146	1	8.8	1.1	0.18	31	58	77	1	274	41.9	0.017	0.04	3.0	4	80	15.2	17-JUL-95:1200
G43146	2	9.1	1.3	0.05	39	54	80	1	262	42.3	0.017	0.04	2.9	3	67	18.9	12-JUN-95:1200
G43147	1	8.0	0.6	0.25	24	52	62	12	358	47.9	0.006	< 0.04	2.9	22	149	10.2	21-FEB-95:1200
G43155	2	7.0	0.7	12.23	55	201	182	8	628	98.2	0.014	< 0.04	2.3	13	91	21.2	18-FEB-95:1630
G43155	1	7.7	0.7	1.00	41	154	124	2	393	67.4	0.013	< 0.04	2.1	7	47	10.9	07-FEB-95:1545
G43156	3	8.0	1.0	60.00	8	112	196	76	1305	153.0	0.020	0.04	2.2	40	495	39.5	22-FEB-95:1800
G43156	3	8.2	1.0	60.26	5	117	263	29	1230	161.0	0.034	< 0.04	3.0	29	423	32.7	09-FEB-95:1630

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A80

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43165	1	6.7	0.3	3.71 <	3	10	10	3	50	8.8	0.044 <	0.04	1.6	1	4	1.9	28-FEB-95:1600
G43169	1	7.8	0.7	4.57	13	156	90	53	725	99.7	0.024 <	0.04	5.8	42	282	21.5	16-MAR-95:1000
G43856	3	7.4	0.2	0.36	346	3117	1595	171	5690	1003.0	0.024	0.10	40.3	294	101	6.9	09-MAY-95:0930
G43860	2	8.6	0.6	13.35	44	263	262	128	1574	215.0	0.104	0.05	4.7	7	660	29.0	25-MAY-95:0800
G43861	1	8.1	0.4	4.21	17	140	70	42	635	92.9	0.021 <	0.04	3.0	56	236	10.9	29-MAY-95:1000
G43861	1	7.0	0.4	4.29	17	141	71	44	648	87.9	0.013	0.04	3.0	55	244	10.0	24-JUN-95:2013
G43862	1	7.9	0.2	0.42	5	5	6	7	151	17.8	0.039 <	0.04	2.0	16	88	18.2	01-JUN-95:1200
G43865	1	7.5	0.2 <	0.04	9	12	18	9	163	22.6	0.018	0.05	0.8	11	84	7.1	20-JUN-95:1100
T19861	1	7.3	0.2	2.26 <	3	13	13	17	231	29.2	0.016 <	0.04	< 0.3	20	128	19.4	16-APR-95:1717
T19962	1	7.7	0.2	1.01	5	8	17	12	213	25.2	0.028 <	0.04	1.4	17	120	18.4	18-APR-95:0825
T3512	1	8.2	0.2	3.99	4	15	49	63	701	80.4	0.014 <	0.04	1.7	40	418	22.5	08-APR-95:0940
T3609	1	8.6	0.3	3.99	5	16	52	68	917	95.1	0.014 <	0.04	1.5	75	560	23.3	10-APR-95:0720

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A90

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
516	1	7.4	0.2	1.25	< 3	24	30	12	251	33.3	0.052	< 0.04	1.7	18	130	7.8	20-MAR-95:1200
517	1	7.8	0.6	0.94	< 3	50	33	46	520	67.5	0.009	< 0.04	0.6	40	281	18.1	22-MAR-95:1400
518	1	7.3	0.2	2.88	< 3	24	22	16	245	33.6	0.062	< 0.04	0.8	18	124	21.7	24-MAR-95:1730
539	1	7.2	0.5	0.44	8	20	45	30	535	65.6	0.015	< 0.04	1.3	50	311	26.2	04-MAY-95:0800
B205	1	7.3	0.4	0.24	6	41	40	42	665	83.2	0.016	0.17	2.4	70	379	15.2	02-MAY-95:1522
B50H	1	7.3	0.5	4.00	6	40	38	33	522	69.5	0.015	< 0.04	1.7	53	273	29.7	28-APR-95:1920
B829	1	7.0	0.5	5.58	20	135	68	42	655	92.1	0.017	0.05	2.7	58	249	11.0	23-FEB-95:1000
BENMUT	1	8.0	0.6	3.36	13	39	36	96	885	105.1	0.020	< 0.04	1.4	42	527	42.7	08-FEB-95:0600
BN4	1	8.0	0.7	0.19	7	22	47	23	458	57.0	0.032	< 0.04	1.8	39	259	23.9	06-MAY-95:0900
DB2	2	7.7	0.9	6.11	29	84	100	72	1105	128.7	0.007	0.05	4.6	84	577	37.4	07-MAR-95:1100
G39510	1	7.0	0.3	1.00	17	112	78	55	715	93.1	0.018	< 0.04	6.5	43	328	27.5	09-FEB-95:0830
G40374	3	7.0	1.0	60.12	69	475	262	219	2355	292.0	0.027	0.05	11.7	86	792	26.1	18-FEB-95:0600
G41285	1	8.0	0.3	0.29	12	17	28	32	435	52.0	0.015	< 0.04	1.4	41	248	16.5	24-NOV-94:1000
G41286	1	8.0	0.3	0.05	10	30	28	32	455	51.9	0.011	< 0.04	1.3	41	255	16.6	28-NOV-94:1000
G41287	1	8.0	0.5	0.12	7	20	30	28	445	52.3	0.007	< 0.04	1.5	49	253	18.6	30-NOV-94:1600
G41287	1	8.0	0.2	0.32	5	25	21	22	293	37.5	0.019	< 0.04	0.4	29	156	22.6	08-NOV-94:1400
G43153	2	8.0	0.5	18.27	13	95	64	89	1174	128.1	0.008	< 0.04	< 0.3	103	597	36.7	18-FEB-95:0600
G43154	3	8.0	0.8	59.54	17	139	211	27	1020	128.7	0.026	< 0.04	2.6	33	267	23.0	06-FEB-95:1100

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A90

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43154	2	8.0	0.5	15.56	60	248	220	7	801	120.7	0.036	< 0.04	2.5	23	140	17.0	02-FEB-95:1200
G43158	3	8.0	0.4	48.95	23	125	121	119	1459	181.0	0.010	< 0.04	1.6	94	623	36.3	22-MAR-95:1200
G43159	2	8.7	2.8	0.14	51	270	316	5	1024	157.0	0.085	< 0.04	2.2	5	304	2.3	14-FEB-95:1400
G43160	3	8.0	4.4	< 0.04	77	412	512	11	1659	240.0	0.018	< 0.04	2.9	13	514	6.7	25-FEB-95:0930
G43160	2	8.4	3.5	0.05	48	294	339	7	1142	169.0	0.031	< 0.04	2.7	9	359	4.2	16-FEB-95:1300
G43161	2	8.1	1.6	2.91	4	33	31	92	851	98.4	0.015	< 0.04	1.3	40	520	42.9	02-FEB-95:1000
G43163	1	8.3	0.9	1.56	5	32	108	43	735	83.2	0.013	< 0.04	4.6	17	424	29.1	23-FEB-95:0900
G43164	1	6.7	0.4	2.91	< 3	6	6	2	43	5.9	0.014	< 0.04	0.9	1	10	4.0	24-FEB-95:1200
G43164	2	4.0	0.5	5.60	< 3	10	11	4	71	11.0	0.012	< 0.04	1.9	1	14	5.3	16-MAY-95:1200
G43165	1	6.0	0.4	3.42	< 3	10	9	3	77	10.9	0.023	< 0.04	0.8	5	27	5.5	17-MAY-95:1245
G43166	1	7.0	0.2	8.49	6	46	73	58	799	97.8	0.016	0.51	2.9	52	429	28.4	21-MAR-95:1330
G43166	1	8.1	0.6	8.11	4	53	76	54	717	93.4	0.019	0.06	2.9	34	375	31.1	08-FEB-95:1500
G43167	1	8.3	0.6	7.27	13	101	82	71	833	108.2	0.018	0.08	6.4	39	400	18.1	25-MAR-95:1815
G43167	1	7.6	0.6	8.35	11	102	79	71	877	111.7	0.009	< 0.04	5.8	48	428	19.1	13-MAR-95:1200
G43168	1	7.0	0.4	6.56	11	85	77	77	892	113.4	0.022	< 0.04	5.0	46	461	28.3	24-MAR-95:1800
G43168	1	8.3	1.0	6.36	11	90	81	74	915	104.5	0.020	0.08	5.3	45	474	27.4	15-MAR-95:1400
G43169	1	7.7	0.6	< 0.04	21	162	94	55	820	111.8	0.082	< 0.04	6.0	54	350	21.2	26-MAR-95:0430
G43655	1	7.0	1.4	0.75	< 3	4	9	4	103	11.8	0.097	< 0.04	1.9	9	56	21.4	23-FEB-95:0715

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A90

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43657	1	8.2	0.9	1.61	< 3	5	14	15	232	25.6	0.012	< 0.04	1.3	18	139	21.0	21-MAR-95:1600
G43658	1	7.8	0.5	1.20	< 3	5	12	11	217	24.4	0.046	< 0.04	1.7	23	129	21.6	21-MAR-95:0910
G43658	1	7.7	0.4	< 0.04	5	5	13	11	220	24.1	0.018	< 0.04	1.8	23	132	21.6	28-FEB-95:1900
G43658	1	7.7	0.6	1.36	4	5	19	19	317	38.0	0.020	0.04	1.9	28	191	19.8	17-JUL-95:1200
G43666	1	8.1	0.4	0.31	7	9	29	17	291	36.7	0.012	< 0.04	< 0.3	22	169	26.8	17-MAR-95:0900
G43666	1	8.1	0.5	< 0.04	15	13	39	18	354	45.5	0.033	< 0.04	1.5	31	195	21.5	08-MAR-95:1100
G43671	1	7.4	0.2	2.01	< 3	6	12	14	245	29.4	0.014	< 0.04	1.0	29	141	17.0	09-MAY-95:0600
G43672	1	7.3	0.3	2.35	< 3	9	13	13	216	26.8	0.023	0.04	2.3	22	118	22.6	22-MAY-95:2230
G43673	1	7.1	0.3	2.92	< 3	6	9	10	197	23.2	0.083	< 0.04	2.6	24	106	23.3	23-MAY-95:0600
G43850	2	8.1	0.6	11.04	10	93	58	63	820	96.7	0.017	< 0.04	0.8	66	394	27.4	06-APR-95:1000
G43850	2	7.9	0.3	10.51	14	93	60	64	792	104.7	0.038	< 0.04	0.7	64	369	28.6	06-APR-95:0900
G43851	1	7.7	0.2	1.44	10	34	26	22	279	40.1	0.010	< 0.04	3.4	16	133	6.0	07-APR-95:1100
G43851	1	6.7	0.2	0.79	5	26	24	12	201	30.6	0.009	0.14	2.8	10	96	10.8	16-JUL-95:1430
G43852	1	8.2	0.2	0.96	11	28	27	14	220	31.2	0.025	< 0.04	1.9	11	101	7.6	12-APR-95:1000
G43852	1	6.8	0.2	1.12	4	25	25	13	211	32.6	0.015	< 0.04	2.1	12	102	10.6	14-JUL-95:0717
G43853	2	8.0	0.4	0.64	66	491	316	83	1592	249.0	0.014	< 0.04	1.6	65	464	14.2	20-APR-95:1100
G43853	2	7.3	0.7	0.71	55	380	276	64	1319	210.0	0.015	< 0.04	1.6	63	389	12.4	10-JUL-95:0828
G43853	1	6.4	0.1	2.03	9	37	32	7	175	29.8	0.010	< 0.04	2.3	6	59	14.9	22-JUL-95:1030

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : A90

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43854	1	7.9	0.5	1.23	26	108	109	69	976	118.3	0.042	< 0.04	14.9	41	494	22.5	21-APR-95:1600
G43855	2	8.0	0.4	1.36	35	206	150	87	1168	155.0	0.023	< 0.04	1.9	47	519	21.6	25-APR-95:1300
G43855	2	8.3	0.3	3.55	19	234	150	94	1247	179.0	0.012	0.04	1.5	81	534	23.5	19-JUL-95:1759
G43857	1	8.1	0.3	0.05	10	56	38	23	400	55.8	0.022	< 0.04	< 0.3	41	190	15.4	15-MAY-95:1245
G43870	1	7.8	0.3	0.20	7	4	7	10	176	20.5	0.026	< 0.04	1.5	18	104	14.2	18-MAY-95:1530
G43880	1	8.0	0.3	2.14	5	5	10	18	269	33.3	0.023	< 0.04	0.6	32	155	14.3	22-JUN-95:1000
LEV1	1	7.0	0.4	6.42	< 3	17	15	12	189	27.4	0.032	0.05	3.6	15	78	21.2	17-MAY-95:1055
LEV2	1	6.0	0.3	5.04	< 3	17	16	12	187	27.5	0.031	0.16	3.7	15	81	21.1	17-MAY-95:1100
LEVUBU	1	7.0	0.4	4.29	19	3	17	12	206	25.7	0.023	0.04	3.9	16	95	19.7	17-JUL-95:1200
MACANUW	1	7.4	0.6	8.74	< 3	22	19	33	476	60.0	0.016	< 0.04	< 0.3	58	250	20.9	26-MAR-95:0830
MANENZH	2	7.0	0.6	12.78	9	77	76	72	830	102.3	0.022	0.04	3.7	40	406	33.2	17-FEB-95:0710
MAPAKON	1	8.1	0.6	3.65	14	188	91	53	748	111.4	0.011	< 0.04	9.2	50	268	12.7	04-FEB-95:1000
MURAGA	1	7.7	0.2	3.04	8	12	19	27	401	50.7	0.017	< 0.04	< 0.3	44	228	25.1	10-MAR-95:1430
SIGONDE	2	7.0	0.8	7.31	13	86	99	71	1078	133.0	0.011	< 0.04	4.5	82	565	35.9	06-FEB-95:1200
ZN100ND	2	8.0	0.7	18.26	70	201	175	152	1586	186.0	0.035	0.05	8.4	29	712	34.8	01-FEB-95:1500

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B40

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
HLOGOT	2	7.2	1.8	1.08	< 3	< 3	9	2	82	9.3	0.009	< 0.04	2.1	6	45	13.5	23-MAY-95:1200
MABT1	2	8.0	0.6	8.63	92	145	136	84	1204	150.0	0.019	< 0.04	7.9	76	512	27.0	07-APR-95:0840
MAKF 5	1	8.4	0.4	2.52	13	26	27	73	656	77.9	0.017	0.73	4.5	32	383	12.8	30-MAR-95:1500
MAKF1	1	8.2	0.9	0.11	37	23	31	62	646	76.6	0.015	0.06	5.0	40	367	16.4	29-MAR-95:1310
MAKF3	2	8.3	1.4	0.05	286	155	85	143	1390	172.0	0.013	0.16	9.3	87	511	14.4	30-MAR-95:1440
MOKB4	1	7.9	0.4	7.82	42	27	52	47	718	87.1	0.020	< 0.04	2.8	70	362	33.5	06-APR-95:1410
MORL2	1	8.0	0.4	9.84	50	44	73	59	951	107.7	0.014	< 0.04	4.2	89	483	29.2	06-APR-95:1115
PIDM1	3	7.9	0.7	23.44	8	37	37	55	748	87.4	0.038	0.04	3.0	72	353	30.3	30-MAR-95:1527
SPITS	2	8.0	1.5	0.11	22	5	10	84	771	80.8	0.006	< 0.04	5.3	51	486	23.1	24-MAY-95:1200
VES2	2	8.1	2.2	0.33	4	4	13	3	159	18.6	0.010	< 0.04	4.3	18	90	9.3	22-MAY-95:1200
VES4	2	8.0	0.2	10.67	11	23	126	24	923	103.7	0.007	< 0.04	13.0	63	506	27.6	29-MAY-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B50

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G42564	3	8.0	4.3	< 0.04	24	50	44	4	237	38.7	0.036	< 0.04	7.1	19	70	10.8	29-OCT-94:1000
G42564	1	8.0	1.1	2.00	8	23	31	16	388	50.0	0.027	< 0.04	3.6	43	208	16.8	23-JAN-95:1200
G42613	1	8.0	1.1	7.72	5	23	44	34	516	63.5	0.008	0.07	1.7	42	271	19.7	15-DEC-94:1200
G42613	1	7.5	0.8	1.92	4	7	43	22	413	49.9	0.015	0.04	0.9	29	244	30.0	18-JUL-95:1200
G42616	2	8.0	0.9	5.26	134	470	195	24	1349	214.0	0.010	< 0.04	5.3	210	235	12.9	16-DEC-94:1200
G42617	1	8.0	1.1	1.06	19	61	130	29	828	95.2	0.011	< 0.04	2.3	58	429	23.7	15-DEC-94:1200
G42619	1	7.0	0.6	2.64	< 3	13	26	13	273	33.3	0.008	< 0.04	< 0.3	24	150	27.7	16-DEC-94:1200
G42619	1	8.0	1.3	5.84	22	40	51	41	578	76.0	0.017	< 0.04	3.0	46	285	16.2	29-NOV-94:1200
G42619	3	8.0	2.2	31.95	196	796	452	157	2281	366.0	0.017	0.08	18.4	73	365	32.8	29-NOV-94:1200
G42632	3	8.0	0.4	94.77	103	198	92	147	1419	188.0	0.031	< 0.04	14.5	84	295	13.6	07-JAN-95:1530
G42633	3	8.0	0.4	24.02	67	200	76	121	1099	158.0	0.017	0.08	7.7	58	379	14.7	09-JAN-95:1100
G42634	3	8.0	0.6	20.10	150	402	121	142	1477	231.0	0.020	0.06	14.7	117	362	32.8	21-JAN-95:1230
G42635	2	8.0	1.2	19.61	136	382	118	149	1446	214.0	0.087	0.07	14.5	103	373	34.8	23-JAN-95:1645
G42637	3	8.0	0.3	63.93	42	56	57	99	1097	136.0	0.025	0.05	1.1	87	387	35.2	25-JAN-95:1545
G42641	1	8.0	0.7	0.08	26	41	20	24	519	64.0	0.014	0.17	17.5	73	260	6.2	01-FEB-95:1100
G42643	3	8.2	4.8	3.64	36	62	82	2	398	54.1	0.074	< 0.04	21.6	13	131	9.0	08-FEB-95:1000
G42644	2	8.2	2.4	0.27	20	29	47	4	293	39.3	0.023	< 0.04	6.6	25	130	11.5	07-FEB-95:0800
G42646	2	8.0	0.9	11.19	218	87	131	53	925	122.0	0.015	< 0.04	17.3	47	263	3.5	17-FEB-95:0830

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B50

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G42649	2	8.0	2.8	10.01	61	72	187	11	895	107.2	0.033	< 0.04	28.1	28	378	24.0	23-FEB-95:1130
G42712	2	7.0	0.5	12.67	10	42	22	39	630	78.0	0.020	< 0.04	3.2	82	309	13.1	05-JAN-95:1200
G42715	2	8.0	2.4	16.81	31	84	51	62	910	116.6	0.006	0.44	7.4	106	403	16.1	21-DEC-94:1200
G42715	2	8.0	2.2	17.04	31	73	47	63	741	97.2	0.019	0.05	7.4	61	313	17.0	10-NOV-94:1500
G42716	1	8.0	0.6	2.65	14	29	34	37	446	56.5	0.032	< 0.04	3.4	28	236	12.1	10-NOV-94:1500
G42717	1	8.0	0.8	3.98	12	38	36	41	583	69.9	0.006	< 0.04	2.5	56	310	15.9	02-JAN-94:1200
G42717	1	8.0	0.9	3.85	16	37	36	42	498	63.6	0.026	< 0.04	2.5	39	253	15.0	22-NOV-94:1400
G42721	3	8.0	1.0	0.28	682	1035	480	225	3044	455.0	0.064	0.04	23.0	210	317	6.3	07-DEC-94:1100
G42721	3	8.0	1.5	13.74	688	1071	473	242	3206	451.0	0.028	0.06	23.2	203	363	31.2	08-JAN-95:1200
G42729	2	8.0	3.5	0.44	70	76	89	11	481	68.9	0.063	< 0.04	4.9	34	156	9.1	15-FEB-95:0900
G42729	2	7.9	1.1	10.33	139	267	212	83	1474	199.0	0.019	0.05	8.8	89	516	24.0	20-MAR-95:1200
G42731	1	7.0	0.4	0.73	17	32	43	39	546	64.8	0.016	< 0.04	3.0	42	301	11.7	02-MAR-95:1300
G42731	1	7.8	0.4	0.92	12	27	43	36	563	68.9	0.010	< 0.04	2.5	49	319	14.5	23-MAR-95:2030
G42731	1	8.4	0.5	1.18	20	35	42	37	547	67.4	0.047	0.04	3.2	45	293	10.6	02-MAR-95:1800
G42731	1	8.0	0.3	< 0.04	11	38	57	38	673	73.0	0.019	0.04	5.6	53	385	6.6	02-FEB-95:1200
G42732	2	8.1	0.5	14.75	132	545	139	121	1495	240.0	0.010	0.06	10.6	162	261	12.3	22-MAR-95:1200
G42732	2	8.3	0.4	19.17	124	556	145	112	1457	244.0	0.074	0.07	14.9	146	224	8.8	08-MAR-95:1500
G42733	1	7.9	0.4	1.49	10	29	47	43	661	78.1	0.013	< 0.04	4.4	58	380	13.0	27-MAR-95:1300

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B50

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G42733	1	8.6	0.6	1.08	16	35	43	42	556	66.9	0.033	0.05	5.3	41	303	12.4	16-MAR-95:1300
G42737	1	8.0	0.7	8.21	24	62	56	26	610	76.4	0.020	< 0.04	2.5	66	276	12.0	06-APR-95:1100
G42738	1	8.0	0.5	8.97	13	34	48	26	534	62.5	0.021	< 0.04	3.5	50	262	12.3	08-APR-95:1300
G42740	1	8.0	0.7	7.11	11	25	34	21	416	50.3	0.015	< 0.04	3.2	42	203	11.0	20-APR-95:1030
G42742	2	8.2	1.6	0.24	< 3	7	31	17	405	48.6	0.014	< 0.04	4.4	47	241	9.3	10-MAY-95:1400
G42743	1	8.0	0.8	0.06	12	21	45	14	307	39.8	0.025	< 0.04	5.2	20	155	15.4	15-APR-95:1500
G42744	1	8.0	0.6	0.81	19	34	50	19	374	47.8	0.060	< 0.04	4.5	26	179	20.5	20-MAY-95:1400
G42765	2	8.0	1.7	18.55	18	46	67	98	971	108.9	0.029	< 0.04	7.1	44	499	35.6	06-JAN-95:1200
G42766	1	8.0	1.4	5.28	12	25	74	38	668	79.0	0.043	< 0.04	10.9	39	365	42.2	06-JAN-95:1200
G42768	1	8.5	0.3	0.05	8	6	7	29	371	45.0	0.017	< 0.04	4.3	42	225	6.0	16-SEP-95:0500
G42771	3	8.0	4.6	1.12	44	148	228	15	894	124.5	0.013	< 0.04	3.8	17	352	8.3	25-NOV-94:1030
G42772	2	8.0	2.4	0.98	12	24	67	13	401	51.0	0.015	< 0.04	3.8	24	206	7.2	30-NOV-94:1000
G42775	2	7.5	1.0	19.99	15	38	30	34	539	72.1	0.015	< 0.04	5.6	55	222	15.0	18-MAR-95:1900
H010198	3	8.3	0.5	26.86	12	67	49	32	709	97.0	0.013	0.04	2.5	103	266	14.0	25-JUL-95:1200
H010376	2	7.6	1.9	19.91	24	120	80	122	1210	154.0	0.015	< 0.04	10.9	54	581	35.6	06-MAY-95:1330
H011650	1	7.9	0.6	1.05	9	8	31	20	426	52.1	0.009	< 0.04	4.5	42	251	17.3	02-JUL-95:1700
H031167	3	8.2	1.3	19.97	107	760	132	246	1898	339.0	0.015	0.05	20.0	120	347	36.1	09-MAY-95:2000
H031168	3	8.0	1.9	21.09	55	336	114	164	1435	216.0	0.013	< 0.04	11.2	74	480	33.9	09-MAY-95:1430

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B50

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
LAKAU	2	7.0	3.4	2.11	< 3	21	37	1	187	26.4	0.027	< 0.04	9.3	8	77	13.7	16-MAY-95:1200
MALIMAT	3	7.0	1.1	46.39	132	194	88	116	1329	177.0	0.023	0.25	11.8	110	386	28.1	26-APR-95:2200
SEL1	1	8.5	0.1	7.82	36	44	44	54	715	84.8	0.011	0.04	1.7	75	349	33.9	08-JUN-95:0700
SEL10	3	7.5	0.3	43.42	82	67	63	59	1058	116.4	0.049	0.29	3.4	142	368	17.9	26-JUN-95:1055
SEL11	1	7.1	0.2	4.61	51	20	23	52	699	78.0	0.019	0.27	1.3	81	369	34.1	27-JUN-95:0340
SEL12	2	8.1	0.2	16.00	31	192	62	92	943	126.0	0.012	0.06	1.9	69	348	39.4	28-JUN-95:0350
SEL13	3	8.0	0.2	23.78	59	199	71	123	1061	146.0	0.025	0.05	2.9	46	373	37.0	30-JUN-95:0250
SEL2	1	8.0	0.1	0.09	18	59	50	52	673	84.2	0.009	< 0.04	1.1	60	355	32.5	08-JUN-95:1100
SEL3	1	7.9	0.1	9.13	17	47	28	54	699	84.9	0.007	< 0.04	0.7	79	356	34.5	09-JUN-95:0215
SEL4	3	8.1	0.1	37.71	69	60	44	65	844	106.8	0.009	< 0.04	1.8	95	280	34.8	14-JUN-95:0400
SEL5	2	7.5	0.1	17.31	163	495	130	120	1633	239.0	0.008	0.08	2.8	208	358	36.0	19-JUN-95:0430
SEL6	3	7.5	0.1	35.18	135	639	149	135	1837	284.0	0.017	0.05	6.0	229	318	37.3	22-JUN-95:1130
SEL7	1	8.0	0.1	5.28	31	100	65	59	733	93.9	0.015	< 0.04	1.5	53	328	33.2	25-JUN-95:1240
SEL8	2	7.5	0.1	19.93	111	371	131	102	1415	209.0	0.011	0.05	2.7	159	369	36.4	23-JUN-95:0940
SEL9	3	7.6	0.1	22.56	53	42	21	71	719	90.2	0.010	0.14	0.9	67	299	33.9	26-JUN-95:1130
SERA	2	8.0	3.0	6.68	22	11	36	3	196	27.9	0.043	< 0.04	4.4	10	63	25.0	21-APR-95:1200
T1605	1	7.6	0.5	0.26	7	5	30	15	354	43.9	0.012	< 0.04	3.9	35	211	16.5	19-JUL-95:1730
THABA	2	8.0	2.8	0.06	< 3	3	12	4	178	21.3	0.009	< 0.04	3.3	26	101	14.4	21-MAY-95:1200

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B50

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
VES1	1	7.9	1.4	0.44	5	< 3	12	1	82	8.7	0.007	< 0.04	3.3	3	42	16.1	21-MAY-95:1200
VES10	3	8.0	4.8	0.59	13	10	77	6	370	46.4	0.011	< 0.04	3.7	13	197	10.4	19-APR-95:1200
VES11	3	8.0	4.1	0.12	< 3	4	24	2	157	20.7	0.010	< 0.04	7.3	10	85	14.9	20-MAY-95:1200
VES16	2	7.9	3.9	0.17	5	18	47	4	291	38.9	0.011	< 0.04	2.8	24	152	23.2	31-MAY-95:1200
VES17	2	7.0	1.7	5.76	8	14	39	3	188	26.6	0.011	0.08	2.2	8	71	25.0	31-MAY-95:1200
VES21	1	8.3	0.8	1.88	< 3	6	19	18	274	34.9	0.012	< 0.04	7.4	17	161	20.5	23-MAY-95:1200
VES3	2	7.7	3.0	0.24	8	12	33	4	271	35.2	0.006	0.14	2.5	28	147	20.5	28-MAY-95:1200
VES6	3	8.0	6.7	< 0.04	< 3	6	33	3	202	25.5	0.015	< 0.04	3.8	16	108	6.3	19-MAY-95:1200
VES7	3	8.0	4.1	0.53	7	52	42	4	318	46.0	0.007	< 0.04	2.7	40	134	22.9	30-MAY-95:1200
VES8	3	7.0	2.7	34.71	< 3	35	67	4	307	28.3	0.008	< 0.04	7.3	10	21	36.5	30-MAY-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B70

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G42734	1	7.0	0.5	0.82	13	27	33	19	393	48.1	0.016	< 0.04	2.9	39	210	21.2	28-MAR-95:1424
G42734	1	7.9	0.3	0.81	14	22	32	19	360	47.7	0.015	< 0.04	3.3	36	190	17.4	29-MAR-95:1415
G42734	1	8.1	0.5	1.31	13	22	31	19	364	44.8	0.017	< 0.04	3.2	35	192	17.3	30-MAR-95:1400
G42735	1	7.7	0.7	3.87	14	79	28	41	582	75.9	0.017	< 0.04	3.5	71	269	22.4	29-MAR-95:1940
G42735	1	8.2	0.5	3.82	15	62	25	35	501	69.9	0.023	< 0.04	4.0	60	232	21.6	27-MAR-95:1000
G42735	1	8.3	0.5	3.91	13	61	24	36	491	69.1	0.022	0.06	3.9	59	226	21.4	29-MAR-95:1905
G42766	1	8.0	0.5	0.50	12	12	17	16	222	28.7	0.021	< 0.04	2.4	13	120	11.0	12-SEP-95:0200
G43789	1	8.7	1.1	0.09	21	28	98	20	518	63.6	0.021	< 0.04	7.4	18	266	16.4	15-AUG-95:0400
G43790	1	8.1	0.6	< 0.04	28	66	63	52	644	79.6	0.232	< 0.04	3.2	42	318	30.8	17-AUG-95:1200
G44015	1	8.4	0.5	0.53	5	7	31	26	408	45.9	0.020	0.05	1.6	34	247	17.7	11-JUL-95:1630
G44027	1	8.3	0.6	1.24	8	12	90	48	747	81.8	0.020	0.05	2.7	41	442	15.6	18-AUG-95:0200
G44028	1	8.2	0.6	0.17	11	17	121	48	760	83.8	0.026	< 0.04	4.9	18	442	11.5	21-AUG-95:0400
H050347	1	7.2	0.6	0.83	4	5	17	3	128	16.0	0.093	< 0.04	1.8	8	69	27.0	23-AUG-95:0617
H050615	1	7.1	0.3	1.23	< 3	4	15	2	98	12.8	0.226	< 0.04	1.0	7	50	29.3	16-SEP-95:0230
H050621	1	8.2	0.5	0.58	< 3	10	35	10	322	40.5	0.036	< 0.04	< 0.3	34	187	19.7	27-AUG-95:0610
H050693	1	7.4	0.9	1.20	6	6	13	4	122	16.5	0.026	< 0.04	1.0	10	62	18.7	17-AUG-95:0820
H050703	1	7.0	0.5	1.15	< 3	10	28	4	165	22.6	0.021	0.04	2.2	10	85	26.5	29-MAY-95:1800
H050730	1	7.7	0.7	< 0.04	3	7	30	5	184	23.9	0.028	< 0.04	0.3	9	105	13.4	25-AUG-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B70

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
H050732	1	8.0	0.7	0.20	7	8	61	17	432	50.1	0.019	< 0.04	0.9	26	255	22.8	22-JUN-95:0830
H050770	1	7.8	0.9	1.43	6	37	92	16	542	61.7	0.034	< 0.04	2.6	32	286	19.8	13-SEP-95:0341
H050771	1	7.8	0.9	2.35	4	53	101	16	561	73.0	0.064	< 0.04	2.6	34	279	18.1	16-SEP-95:0300
H050772	1	7.9	1.0	9.52	5	91	181	24	926	102.9	0.032	< 0.04	2.7	41	441	16.1	17-SEP-95:0325
MAKB 1	2	8.2	0.8	0.38	16	21	286	25	1270	134.0	0.014	< 0.04	5.7	17	735	23.2	13-APR-95:0800
SEGR1	1	7.3	0.3	0.14	5	5	9	4	117	13.3	0.020	< 0.04	2.1	11	65	9.4	25-APR-95:1345
SEKP9	3	8.0	0.4	22.85	31	67	23	131	949	114.4	0.010	< 0.04	5.0	27	461	31.3	11-APR-95:1320
SEL14	3	7.9	0.1	30.38	79	219	72	145	1253	160.0	0.042	0.17	2.9	59	444	38.2	29-JUN-95:1035
SEL15	2	8.1	0.4	13.61	75	99	35	131	1135	144.0	0.025	< 0.04	0.7	85	532	33.7	03-JUL-95:1030

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B80

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
BEZUIDE	1	7.2	0.5	3.99	8	16	20	16	209	30.9	0.016	< 0.04	5.7	10	94	24.3	07-APR-95:1600
DIEHOOP	1	7.8	0.8	0.08	13	26	40	34	448	55.2	0.018	< 0.04	3.9	25	250	22.5	26-APR-95:1800
DZUMERI	3	8.0	0.7	37.09	27	540	251	118	1870	291.0	0.016	0.14	21.9	126	509	31.0	19-JUL-95:1200
G41294	3	7.0	0.5	63.32	27	117	53	72	808	119.6	0.005	< 0.04	6.0	66	153	7.8	07-NOV-94:1700
G41295	1	8.0	0.3	2.05	10	30	38	21	427	52.5	0.059	< 0.04	5.3	41	223	14.2	15-NOV-94:1200
G41296	3	8.0	0.7	38.25	39	177	108	67	860	120.5	0.021	< 0.04	14.0	44	197	2.9	16-NOV-94:1400
G41296	3	8.0	0.5	37.01	40	173	106	70	861	122.6	0.080	< 0.04	13.9	45	204	3.0	16-NOV-94:1400
G41298	1	8.0	0.3	6.59	12	21	22	15	274	40.4	0.018	< 0.04	6.1	29	115	14.4	16-NOV-94:1400
G41298	1	8.0	0.3	7.21	12	20	22	15	270	39.9	0.012	< 0.04	6.1	28	110	14.5	23-NOV-94:1400
G41299	3	8.0	1.1	21.50	9	55	44	45	571	79.3	0.006	< 0.04	6.8	46	221	17.2	25-NOV-94:1300
G41299	3	7.0	0.5	21.52	11	55	44	45	570	79.9	0.006	< 0.04	6.9	46	219	17.3	25-NOV-94:1300
G41300	1	8.0	0.4	4.57	12	42	41	41	496	57.6	0.019	< 0.04	7.2	34	246	24.1	28-NOV-94:1400
G41300	1	8.0	0.4	5.04	12	42	41	40	492	59.8	0.017	< 0.04	7.2	34	241	23.9	28-NOV-94:1400
G43115	2	7.2	< 0.1	0.78	22	194	144	58	1054	146.0	0.016	0.05	2.4	74	456	25.7	19-JUL-95:1200
G43119	1	8.0	1.3	< 0.04	7	8	122	35	869	92.3	0.012	< 0.04	1.5	55	524	37.9	01-DEC-94:1800
G43120	1	8.0	0.7	0.11	12	121	60	35	626	87.3	< 0.005	< 0.04	3.7	74	262	36.2	02-DEC-94:1200
G43126	3	8.0	1.8	25.63	25	376	302	74	1516	226.0	0.035	0.06	4.5	52	465	19.5	09-DEC-94:1500
G43126	3	8.0	2.3	25.55	18	374	337	68	1509	227.0	0.026	< 0.04	4.9	43	450	19.3	09-DEC-94:1200

KEY CLASS: 1 Suitable for potable use

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B80

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43126A	3	8.0	1.4	25.88	26	382	267	98	1623	226.0	0.007	< 0.04	1.4	82	534	39.1	08-DEC-94:1430
G43126B	3	8.0	1.7	26.33	86	393	260	96	1494	226.0	0.005	< 0.04	2.9	83	375	37.1	08-DEC-94:1400
G43129	1	7.0	0.8	2.53	< 3	15	29	9	329	41.1	0.005	< 0.04	2.0	46	175	19.5	02-DEC-94:1200
G43134	1	7.0	0.5	2.91	< 3	7	9	4	93	13.1	0.037	< 0.04	2.9	7	39	21.2	02-DEC-94:1200
G43137	3	8.0	1.6	41.53	62	253	157	74	1235	191.0	0.008	0.77	4.4	107	321	15.9	30-NOV-94:1420
G43176	1	7.0	0.2	0.77	7	8	8	6	179	21.2	0.057	< 0.04	2.5	24	98	18.4	05-MAY-95:0330
G43178	1	7.3	< 0.1	2.44	4	< 3	24	6	261	31.6	0.019	0.04	1.9	33	148	23.4	19-JUL-95:1200
G43183	1	8.7	0.7	2.48	7	144	133	40	780	101.7	0.041	< 0.04	15.1	29	328	6.3	14-MAR-95:1030
G43184	1	8.4	0.8	< 0.04	14	19	63	30	609	67.0	0.031	0.05	13.8	44	348	24.5	16-MAR-95:1240
G43184	1	7.7	0.9	0.09	5	15	58	30	590	70.2	0.012	< 0.04	7.8	46	351	25.3	08-MAY-95:0530
G43185	3	8.0	3.3	0.06	22	630	344	55	1416	248.0	0.037	0.04	11.4	70	230	11.4	07-DEC-94:1600
G43186	2	8.0	2.9	< 0.04	11	169	136	15	567	85.5	0.027	< 0.04	3.0	21	172	12.1	12-JAN-95:1030
G43186	2	8.0	3.0	< 0.04	14	270	166	22	702	111.3	0.019	< 0.04	8.1	32	154	9.2	11-JAN-95:1630
G43186	2	7.0	2.6	< 0.04	12	152	126	14	579	85.8	0.014	< 0.04	1.8	30	197	15.4	27-APR-95:1705
G43194	1	7.0	1.4	0.10	10	15	70	17	475	53.5	0.023	< 0.04	2.1	25	275	30.2	30-APR-95:1500
G43698	1	8.3	0.4	7.25	7	33	20	12	282	39.7	0.026	< 0.04	9.1	32	112	18.2	15-FEB-95:1200
G43703	1	8.5	1.0	0.13	14	36	106	19	581	71.1	0.145	0.07	8.3	19	309	26.2	11-APR-95:1405
G43704	1	7.8	0.7	4.00	5	23	19	11	229	35.7	0.042	< 0.04	5.9	27	99	19.8	25-APR-95:1130

KEY CLASS: 1 Suitable for potable use

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3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B80

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43704	1	7.0	0.6	0.73	13	13	58	31	525	60.5	0.012	< 0.04	9.6	31	300	32.6	21-MAY-95:0700
G43705	1	8.4	0.7	0.16	8	6	27	58	630	71.9	0.029	0.05	6.7	39	396	29.8	26-APR-95:1305
G43705	1	7.0	0.5	0.11	8	6	20	49	557	66.1	0.016	0.06	4.8	49	344	35.5	23-MAY-95:0225
G43724	3	7.8	0.3	0.82	54	1603	550	231	2927	511.0	0.013	0.05	17.9	194	223	18.0	27-FEB-95:1000
G43725	1	8.6	0.6	0.12	13	92	146	32	834	97.9	0.021	0.04	7.9	36	416	21.0	08-MAR-95:1400
G43726	2	8.5	0.4	1.38	24	389	158	70	1138	186.0	0.051	0.06	7.6	105	310	23.9	10-MAR-95:1100
G43727	1	8.5	0.7	0.06	20	67	148	35	802	91.2	0.024	< 0.04	6.4	16	417	24.2	15-MAR-95:1500
G43728	2	8.5	0.7	12.16	8	139	134	53	1039	125.1	0.032	0.06	8.7	74	465	30.1	17-MAR-95:1000
G43729	2	8.3	0.8	0.13	12	138	155	64	1132	134.0	0.030	0.10	6.3	58	572	32.7	23-MAR-95:1700
G43730	2	8.3	0.8	0.06	17	298	187	70	1200	166.0	0.022	0.04	6.5	68	453	29.3	27-MAR-95:1200
G43731	1	8.4	0.5	3.10	14	21	73	43	602	65.2	0.098	0.11	2.4	21	339	33.6	06-APR-95:0900
G43732	1	8.2	0.6	4.68	13	101	75	77	914	106.2	0.017	0.04	4.6	54	466	36.0	11-APR-95:0800
G43732	1	7.9	0.5	5.85	10	93	75	74	935	109.4	0.036	0.04	3.9	64	482	34.6	01-SEP-95:0200
G43733	1	8.4	0.8	4.57	10	43	75	66	810	90.8	0.013	< 0.04	4.9	36	454	29.7	11-APR-95:1700
G43734	2	8.3	0.9	4.00	31	140	130	91	1034	145.0	0.031	0.06	4.3	37	478	30.7	21-APR-95:1100
G43734	2	8.1	0.8	16.02	27	142	135	102	1259	164.0	0.026	0.05	4.4	53	594	31.7	18-AUG-95:0610
G43735	1	8.5	0.8	4.00	24	104	85	86	950	120.8	0.042	< 0.04	6.6	44	477	24.9	25-APR-95:1700
G43736	1	8.6	0.7	1.98	16	29	100	94	996	108.3	0.017	< 0.04	7.6	10	599	26.0	03-MAY-95:1500

KEY CLASS: 1 Suitable for potable use

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B80

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43737	2	9.0	0.6	0.71	28	44	96	106	956	107.1	0.028	< 0.04	6.2	4	548	22.9	08-MAY-95:1200
G43737	2	8.0	0.6	2.69	9	30	103	85	1034	118.1	0.021	0.04	6.5	40	613	30.8	27-AUG-95:0400
G43738	1	8.4	0.9	1.96	13	30	99	89	999	112.1	0.024	< 0.04	9.7	24	594	28.6	09-MAY-95:1600
G43738	2	8.0	0.6	2.40	8	28	100	84	1026	117.0	0.022	0.04	6.5	39	615	30.6	06-SEP-95:0700
G43741	3	8.4	0.5	21.77	16	245	145	74	1113	165.0	0.025	< 0.04	6.7	80	369	32.8	15-JUL-95:1200
G43765	1	8.6	1.2	< 0.04	9	70	144	15	673	86.1	0.052	0.07	20.6	16	326	3.2	29-MAY-95:1200
G43766	1	8.4	0.7	0.07	17	92	124	36	754	98.7	0.031	< 0.04	3.1	40	361	1.9	30-MAY-95:1500
G43768	3	8.1	0.9	46.59	7	132	84	47	758	116.3	0.025	0.05	9.7	64	170	1.6	31-MAY-95:1600
G43770	1	7.4	0.8	< 0.04	9	121	56	8	257	45.3	0.029	< 0.04	3.9	16	34	3.9	21-JUN-95:1430
G43774	1	8.1	0.7	0.47	6	6	15	5	139	16.2	0.040	0.04	4.2	10	74	11.8	04-JUL-95:1530
G43776	2	8.3	1.2	11.80	24	160	142	63	1083	147.0	0.041	0.05	6.8	66	465	34.1	14-JUN-95:1200
G43777	3	8.2	1.1	39.46	50	158	120	70	1076	145.0	0.020	< 0.04	4.8	82	342	33.3	20-JUN-95:1700
G43778	3	7.6	1.0	30.83	36	211	157	73	1327	187.0	0.019	0.04	5.2	99	499	35.2	02-JUL-95:0450
G43778	3	8.4	0.9	29.61	36	220	154	80	1290	168.0	0.087	0.13	10.8	87	467	22.4	22-JUN-95:1400
G43779	2	8.7	0.9	5.34	16	154	155	78	1152	137.0	0.020	0.05	30.4	28	545	15.0	23-JUN-95:1430
G43781	3	8.3	1.2	0.51	46	911	494	113	2316	387.0	0.018	0.08	15.5	101	518	21.5	10-JUL-95:1600
G43795	1	8.2	0.8	0.07	22	109	86	33	734	92.3	0.014	0.05	6.9	72	331	13.3	05-APR-95:1500
G43796	1	8.3	0.9	0.07	25	126	90	34	744	100.5	0.009	< 0.04	16.8	62	319	14.3	10-APR-95:1100

KEY CLASS: 1 Suitable for potable use

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B80

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43796	1	7.6	1.1	0.88	21	100	81	33	752	101.0	0.012	< 0.04	3.2	78	353	18.9	11-MAY-95:1200
G43799	1	8.2	0.7	0.04	6	100	100	25	540	78.3	0.032	< 0.04	7.3	27	224	2.0	12-MAY-95:1540
G43799	1	7.3	0.4	0.17	< 3	21	23	22	325	40.0	0.024	< 0.04	3.9	28	184	28.2	01-JUN-95:1710
G43800	1	8.1	0.6	0.05	4	132	135	22	642	96.1	0.035	< 0.04	8.0	29	255	2.2	15-MAY-95:1500
G43800	1	7.2	0.7	0.24	< 3	126	108	25	607	82.4	0.023	< 0.04	5.1	32	253	26.9	05-JUN-95:1900
G43803	2	8.4	0.9	0.05	17	112	221	48	1112	127.5	0.171	< 0.04	10.1	21	558	1.6	24-MAY-95:1200
G43804	1	8.1	0.5	0.05	11	135	82	51	713	104.7	0.026	< 0.04	3.8	56	307	1.7	25-MAY-95:1200
G43811	1	8.5	0.8	0.19	15	50	97	48	787	91.5	0.026	< 0.04	7.5	41	432	18.1	11-MAY-95:1200
G43815	3	8.0	0.4	20.01	227	1058	375	221	2614	416.0	0.098	0.35	28.8	156	374	6.3	24-MAY-95:1600
G43816	3	8.2	0.6	26.02	19	163	88	48	753	114.6	0.074	0.61	7.2	59	206	15.2	29-MAY-95:1400
G43820	1	8.5	0.7	5.84	10	35	129	14	578	69.7	0.010	< 0.04	7.9	10	284	3.4	19-JUN-95:1500
G43821	1	8.2	0.6	7.83	9	24	57	26	459	59.5	0.013	< 0.04	5.5	30	224	25.7	20-JUN-95:1200
G43822	1	8.3	0.9	0.11	18	44	121	43	859	96.3	0.041	0.06	13.1	31	482	12.9	21-JUN-95:1200
G43823	1	8.1	0.5	0.34	24	105	161	30	791	102.9	0.012	< 0.04	15.4	24	352	4.9	22-JUN-95:1200
G43827	2	8.2	0.7	12.73	15	144	118	55	914	116.6	0.037	< 0.04	4.4	56	381	35.0	03-JUL-95:1600
G43828	2	8.4	0.7	10.60	17	137	125	56	925	114.1	0.067	0.06	6.7	49	399	32.6	11-JUL-95:1230
G44017	1	8.1	0.5	1.33	9	16	31	16	313	38.2	0.029	< 0.04	3.3	25	168	26.1	13-JUL-95:1630
G44030	1	8.1	0.6	2.21	11	31	33	42	542	68.1	0.022	0.05	7.1	52	292	22.6	22-AUG-95:0400

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B80

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
GAZ 1	2	8.2	1.2	1.03	103	384	197	68	1166	192.0	0.007	0.05	5.9	76	267	18.6	15-MAR-95:1230
GAZ2	2	8.0	1.7	1.28	105	390	197	61	1126	173.0	0.013	< 0.04	5.7	70	238	19.4	15-MAR-95:1230
GIYANI	2	7.5	0.7	3.73	29	366	298	65	1606	206.0	0.012	0.26	3.6	88	606	22.4	19-JUL-95:1200
H070082	2	8.1	0.6	11.73	5	142	138	57	1060	124.9	0.021	0.05	9.5	66	483	32.8	12-JUN-95:1900
H070094	1	8.4	0.9	0.95	54	73	114	29	651	81.5	0.023	< 0.04	1.1	38	276	23.5	28-MAY-95:0910
H070094	2	7.6	1.8	0.83	58	70	113	28	656	87.4	0.030	< 0.04	1.2	37	283	24.9	10-JUN-95:1100
H070095	1	7.8	1.1	0.06	7	101	176	28	865	100.5	0.021	< 0.04	2.8	33	423	24.3	24-MAY-95:1200
H070097	2	8.2	1.2	3.77	< 3	207	300	56	1464	175.0	0.021	< 0.04	1.9	41	687	29.8	30-MAY-95:1155
H070169	2	8.0	0.7	12.37	13	90	142	48	970	120.1	0.013	< 0.04	4.3	59	458	24.9	03-DEC-94:1800
H070171	2	7.4	0.7	17.89	7	302	167	59	1094	171.0	0.011	0.07	6.5	80	322	25.8	19-JUL-95:1200
H070198	2	8.0	0.9	7.59	21	78	156	49	1011	122.0	0.013	< 0.04	2.9	49	510	34.3	15-MAY-95:0400
H070202	1	7.0	0.9	3.68	7	45	90	27	585	74.7	0.021	< 0.04	3.8	33	298	35.1	16-MAY-95:1300
H070522	3	7.6	0.6	58.69	24	342	109	114	1476	207.0	0.021	0.13	4.4	166	374	32.3	18-AUG-95:0430
H070605	3	7.0	0.5	22.44	6	65	68	42	684	90.3	0.019	< 0.04	7.1	57	277	28.2	10-DEC-94:1200
H070832	1	7.8	0.9	0.07	12	103	103	43	780	101.2	0.036	0.07	4.5	57	375	26.4	10-JUN-95:1335
H070841	1	8.0	0.7	7.52	14	88	94	41	823	99.3	0.018	< 0.04	4.0	69	392	31.7	09-DEC-94:1200
H070841	3	7.1	0.4	27.18	15	241	98	72	1040	162.0	0.010	0.05	7.2	92	323	34.2	19-JUL-95:1200
MZILELA	2	8.0	< 0.1	0.04	22	329	220	95	1624	199.0	0.015	2.83	4.4	100	697	25.6	19-JUL-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

15-Nov-1995 11:31 AM

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

Page 40

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B80

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
NKOMO B	2	7.3	0.8	14.79	13	66	47	66	881	109.4	0.015	0.10	2.9	80	443	39.3	19-JUL-95:1200
T12717	3	7.0	0.5	26.02	22	209	178	75	1205	180.0	0.015 <	0.04	8.2	73	429	31.0	18-MAY-95:0600
T7150	2	7.6	0.7	5.91	13	87	133	60	1037	121.6	0.022	0.04	7.2	68	527	30.2	18-AUG-95:0245
XAWELA1	2	7.5	1.3	1.92	26	163	209	54	1296	151.0	0.033	0.04	2.5	71	624	24.6	19-JUL-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : B90

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G41250	1	7.0	0.4	< 0.04	8	26	45	32	536	63.3	0.015	< 0.04	< 0.3	46	310	23.6	05-JAN-95:1000
G41257	1	7.0	0.3	0.66	8	17	28	29	437	55.3	0.013	< 0.04	< 0.3	40	257	28.1	12-JAN-95:1600
G41281	1	8.0	0.5	0.11	< 3	33	29	39	582	65.7	0.011	< 0.04	< 0.3	65	337	25.6	12-NOV-94:1300
G41281	1	7.0	0.4	0.07	< 3	33	29	40	589	68.6	0.009	< 0.04	1.1	66	344	25.5	12-NOV-94:1300
G41282	1	8.0	0.4	0.35	8	5	44	39	576	60.4	0.011	< 0.04	1.4	44	355	13.8	12-NOV-94:1230
G41282	1	8.0	0.4	0.38	10	27	46	43	612	65.4	0.013	< 0.04	1.3	47	358	13.8	11-NOV-94:1230
G41282	1	8.0	0.4	0.94	9	4	22	26	417	46.2	0.015	< 0.04	< 0.3	41	254	21.3	03-JAN-95:0800
G41283	1	8.0	1.2	0.06	10	28	89	27	639	69.0	0.021	< 0.04	3.1	42	360	35.1	15-NOV-94:1100
G41283	1	8.0	1.2	0.06	10	28	89	26	599	67.0	0.020	0.07	3.0	31	336	35.2	15-NOV-94:1100
G43739	2	8.1	0.5	5.49	19	261	194	74	1279	180.0	0.045	0.08	12.8	67	513	2.8	15-MAY-95:1400
G43742	3	8.1	0.3	31.83	22	685	220	161	2009	333.0	0.011	0.07	14.5	172	486	29.6	21-JUL-95:0300

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : X30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
H050386	1	7.5	0.5	1.18	4	4	15	4	131	15.6	0.093	< 0.04	1.5	11	69	23.0	22-JUN-95:0830
H050403	1	7.3	0.6	0.30	4	5	16	5	141	16.4	0.047	< 0.04	1.7	9	81	26.2	24-JUN-95:1120
H050659	1	7.0	0.3	2.07	< 3	21	23	12	249	34.2	0.008	< 0.04	1.1	26	126	21.3	10-JUN-95:1630
H050663	1	7.2	0.3	3.81	< 3	5	13	4	106	15.0	0.016	< 0.04	1.9	8	46	22.5	26-MAY-95:1200
H050667	1	7.4	0.8	0.04	< 3	21	35	22	360	47.7	0.015	< 0.04	2.7	29	201	21.7	08-MAY-95:0633
H050672	1	7.1	0.7	3.29	< 3	10	17	5	134	18.8	0.045	< 0.04	1.5	10	62	24.8	02-MAY-95:1015
H050674	1	7.3	0.7	0.19	4	15	28	14	279	34.5	0.027	< 0.04	1.3	25	155	22.1	06-MAY-95:1200
H050688	2	6.8	0.2	13.32	< 3	14	18	6	159	25.6	0.011	< 0.04	2.4	14	34	22.6	25-MAY-95:1900
H050689	1	6.8	0.2	0.40	< 3	4	11	3	93	12.0	0.060	< 0.04	0.7	7	51	24.6	24-MAY-95:1230
H050692	1	6.9	0.2	1.08	4	4	8	1	62	8.0	0.063	< 0.04	2.9	3	27	18.5	29-MAY-95:1700
H050695	1	7.6	0.5	0.82	4	21	55	7	315	41.0	0.053	< 0.04	2.1	19	165	21.9	20-MAY-95:1200
H050697	1	7.7	0.9	< 0.04	12	100	82	17	525	72.9	0.024	< 0.04	3.6	44	218	11.3	27-MAY-95:0915
H050699	1	7.6	0.5	0.77	6	5	17	4	137	17.1	0.049	< 0.04	3.7	10	72	24.2	23-MAY-95:1312
H050704	1	6.8	0.6	1.45	< 3	7	18	3	130	16.7	0.061	< 0.04	1.7	10	67	27.4	23-MAY-95:1132
H050706	1	8.0	0.4	0.24	10	7	15	3	126	15.4	0.074	< 0.04	3.0	10	63	20.4	23-MAY-95:1000
H050709	1	7.8	0.5	0.85	3	6	27	8	271	32.5	0.028	< 0.04	2.2	31	155	17.7	28-MAY-95:1200
H050713	1	7.6	0.7	1.37	4	15	48	7	288	35.2	0.140	< 0.04	2.3	19	152	21.4	28-MAY-95:1200
H050714	2	7.8	1.6	3.47	4	9	30	9	278	34.5	0.028	< 0.04	2.1	31	145	17.2	07-JUN-95:1300

KEY CLASS:  1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : X30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
H050715	1	7.0	0.6	1.53	4	9	11	14	184	23.6	0.018	< 0.04	1.7	15	100	22.1	07-JUN-95:1210
H050716	2	7.3	0.5	12.11	7	31	27	25	357	49.0	0.017	0.04	2.4	32	147	25.2	08-JUN-95:2340
H050717	2	7.1	0.9	10.08	8	49	64	18	451	59.9	0.028	< 0.04	3.0	36	187	23.5	09-JUN-95:0630
H050718	1	7.1	0.5	1.06	5	4	18	5	143	16.1	0.043	< 0.04	2.5	10	77	26.6	28-JUN-95:1031
H050719	1	7.2	1.0	3.51	3	25	49	17	375	46.5	0.010	< 0.04	2.7	28	191	19.9	08-JUN-95:1900
H050720	1	7.4	1.3	0.24	< 3	4	13	5	113	14.0	0.053	< 0.04	2.5	8	62	28.2	17-JUN-95:0635
H050721	1	7.4	0.5	1.70	3	8	14	6	145	19.5	0.066	< 0.04	1.8	12	75	27.8	22-AUG-95:0800
H050726	1	7.4	0.5	3.07	< 3	4	11	11	165	20.3	0.015	< 0.04	1.6	12	89	17.9	19-JUN-95:1235
H050727	1	7.7	0.5	1.24	6	11	17	52	468	52.1	0.015	< 0.04	2.1	24	288	29.4	19-JUN-95:1010
H050728	1	7.3	0.9	4.50	8	35	47	37	482	64.2	0.013	< 0.04	2.7	32	245	27.1	21-JUN-95:1235
H050729	1	7.6	0.7	0.92	10	35	37	54	586	71.1	0.028	0.06	1.9	35	334	35.7	21-JUN-95:0350
H050732	1	7.5	0.4	4.06	3	6	15	4	145	19.4	0.051	< 0.04	2.0	13	67	24.0	12-AUG-95:0600
H050736	1	7.8	0.8	1.59	4	20	31	25	462	58.7	0.018	< 0.04	1.2	51	264	13.5	18-AUG-95:0400
H050738	1	7.9	0.7	1.62	17	20	63	6	290	33.7	0.390	0.15	2.0	7	137	26.3	18-SEP-95:1045
H050741	1	7.2	0.2	1.42	12	4	17	3	127	13.8	0.061	< 0.04	1.9	7	62	29.6	06-SEP-95:1135
H050743	1	7.7	0.9	0.89	4	9	45	5	260	30.4	0.082	< 0.04	2.6	17	142	27.2	28-AUG-95:1059
H050743	1	7.5	0.3	2.43	< 3	4	16	2	108	14.9	0.035	< 0.04	< 0.3	8	53	26.1	27-AUG-95:1200
H050744	1	7.1	0.3	2.28	< 3	5	16	2	102	12.6	0.113	< 0.04	1.4	6	50	28.7	06-SEP-95:0942

KEY CLASS: 1  Suitable for potable use

2

Suitable for short term potable use

3

Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN PROVINCE

DRAINAGE REGION : X30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
H050767	1	7.2	0.2	1.55	9	5	12	2	99	11.6	0.057	0.08	2.2	7	45	24.8	09-SEP-95:1100
H050768	1	7.2	0.3	2.19 <	3	12	21	4	159	20.8	0.087 <	0.04	1.2	15	78	25.9	12-SEP-95:0558
H050769	1	6.9	0.2	6.43	8	16	19	5	136	20.4	0.027 <	0.04	2.4	11	38	21.3	12-SEP-95:1045

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# NORTHERN CAPE

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

Page 1

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : C90

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
12-9	1	8.0	0.6	2.27	42	68	31	57	739	89.6	0.011 <	0.04	10.5	83	359	18.9	01-NOV-94:1259
13/1	1	8.0	0.4	2.92	30	47	23	35	623	76.9	0.009	0.08	4.6	95	309	13.4	02-NOV-94:1325
13/3	1	8.0	0.3	5.33	14	33	12	33	577	69.7	0.098	0.35	5.7	90	299	14.1	01-NOV-94:1421

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : D41

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
E94130	2	8.0	0.7	10.84	6	26	9	39	528	67.1	0.032	< 0.04	1.9	67	270	7.2	25-OCT-94:0800
E94131	1	8.0	< 0.1	1.18	< 3	5	4	15	271	36.4	0.005	< 0.04	2.0	42	159	6.7	21-NOV-94:0812
E94132	1	8.0	0.1	1.58	4	5	4	23	363	46.8	0.005	< 0.04	1.8	53	217	6.7	18-NOV-94:1333
E94134	1	8.0	0.1	3.70	8	9	5	40	526	66.4	0.008	< 0.04	1.2	72	308	7.5	18-NOV-94:1503
E94135	1	8.0	0.2	4.62	< 3	8	4	29	447	57.1	0.012	< 0.04	1.2	68	258	7.5	18-NOV-94:1520

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : D42

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
E94128	3	8.0	3.3	< 0.04	356	572	1074	7	3591	445.0	0.062	1.09	11.1	5	1280	6.5	25-OCT-94:1500
E94129	3	8.0	3.7	< 0.04	333	539	1064	8	3563	426.0	0.058	1.33	11.0	9	1307	7.5	25-OCT-94:1500
G38354	2	8.0	3.2	5.10	53	50	119	31	997	100.3	0.018	0.04	7.7	113	490	16.3	07-JUN-95:1304
G38359	3	8.0	4.9	11.35	243	322	405	22	1542	197.0	0.014	0.07	5.2	69	345	14.4	07-JUN-95:1519

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : D60

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
5286	2	8.0	1.6	4.90	60	46	59	33	675	85.3	0.011	0.17	3.7	75	308	10.5	13-OCT-94:1200
5288	1	7.0	1.1	2.68	51	50	40	38	645	81.6	0.009	0.10	2.4	79	305	17.5	19-OCT-94:1350
5292	3	8.0	2.1	2.16	511	380	461	58	1942	258.0	0.015	< 0.04	3.8	83	356	11.2	12-OCT-94:1200
5295	1	8.0	1.3	5.39	61	53	53	36	658	78.0	0.015	0.10	3.9	73	290	12.2	12-OCT-94:1200
5295	2	8.0	1.3	4.20	350	339	228	71	1507	220.0	0.008	< 0.04	5.7	143	287	13.1	17-OCT-94:1200
5301	1	7.0	1.2	4.85	30	29	31	27	496	64.1	0.008	< 0.04	3.6	60	240	10.3	12-OCT-94:1200
5303	1	8.0	1.2	5.13	82	58	49	37	675	84.7	0.012	0.06	3.7	77	283	13.1	12-OCT-94:1200
5310	1	8.0	1.2	2.96	67	47	37	36	611	71.9	0.009	< 0.04	4.1	75	271	11.6	20-OCT-94:1200
5318	2	7.0	1.9	2.14	45	63	46	28	563	69.8	0.011	< 0.04	2.3	68	245	14.1	12-OCT-94:1200
5330	2	8.0	1.2	6.32	182	174	105	59	1060	134.0	0.009	< 0.04	5.5	124	314	10.4	19-OCT-94:1200
5331	1	8.0	1.3	2.93	44	41	46	30	587	69.8	0.022	0.07	3.0	68	279	13.3	18-OCT-94:1800
5340	1	8.0	1.4	4.82	159	111	117	51	978	128.0	0.013	< 0.04	4.0	92	346	13.2	13-OCT-94:1200
5345	1	7.0	1.2	1.01	82	56	53	31	621	75.5	0.010	< 0.04	3.1	71	261	11.5	13-OCT-94:1200
NN1	1	7.0	1.4	1.59	21	14	30	16	338	40.4	0.008	< 0.04	3.1	36	173	11.2	21-OCT-94:1600
NN13	2	8.0	1.6	2.40	27	19	38	16	512	65.1	0.009	< 0.04	2.1	77	264	10.4	22-OCT-94:1040
PF6	1	7.0	1.4	5.28	55	49	50	27	627	74.8	0.020	< 0.04	4.1	79	277	10.8	24-OCT-94:1355
PN14	1	8.0	1.1	5.45	117	128	74	51	865	116.5	0.023	< 0.04	3.8	93	307	14.5	24-OCT-94:1125
PN7	1	7.0	1.0	5.69	47	43	39	36	660	84.4	0.027	< 0.04	3.3	84	313	13.3	24-OCT-94:0903

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

18-Dec-1995 12:37 PM

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
**INSTITUTE FOR WATER QUALITY STUDIES**

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : D60

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
QMWON1	3	7.0	6.8	0.10	9	235	195	< 1	575	102.3	0.011	< 0.04	1.4	6	100	8.4	13-OCT-94:1354

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : D73

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
228-7	3	7.0	0.3	24.35	9	19	23	43	684	78.8	0.011	< 0.04	4.3	87	320	20.6	07-DEC-94:1500
234-3	1	7.0	0.2	5.64	< 3	12	12	9	190	26.6	0.007	< 0.04	3.0	23	84	12.5	30-NOV-94:1630
238-2	1	7.0	0.2	0.97	8	27	13	8	140	22.9	0.006	< 0.04	3.0	13	53	9.8	22-NOV-94:1600
364-5	2	8.0	0.4	18.43	93	141	55	88	987	123.9	0.010	< 0.04	5.4	91	354	20.4	08-DEC-94:0955
447-3	1	7.0	0.3	7.11	19	26	16	52	785	83.9	0.009	< 0.04	6.3	96	442	21.8	07-DEC-94:1310
485-3	2	8.0	0.4	14.42	18	27	17	46	641	73.7	0.008	< 0.04	3.2	79	317	18.6	06-DEC-94:1125
541-7	1	8.0	0.5	< 0.04	36	15	13	42	542	62.6	< 0.005	< 0.04	3.9	61	305	6.8	06-DEC-94:1450
ELT-4	1	7.0	0.2	4.55	13	41	20	11	231	36.9	0.008	< 0.04	3.8	28	78	29.1	24-NOV-94:1700
ELT-5	1	7.0	0.3	2.72	< 3	19	8	5	85	13.8	0.009	< 0.04	2.0	8	24	10.1	24-NOV-94:1230
ELT-6	1	7.0	0.2	1.38	< 3	7	4	3	47	7.6	0.006	< 0.04	1.7	4	16	6.6	24-NOV-94:1300
ELT-8	1	7.0	0.3	1.10	< 3	7	4	2	48	7.7	0.007	< 0.04	2.7	3	17	6.1	24-NOV-94:1330
ION-2	1	8.0	0.2	2.24	27	29	42	9	285	39.4	0.007	< 0.04	4.9	21	117	28.5	29-NOV-94:0830
ION-4	2	7.0	0.1	16.18	6	100	24	22	282	48.1	0.006	< 0.04	4.2	28	21	11.0	29-NOV-94:0907
KAN-5	2	8.0	0.5	18.39	20	128	61	49	729	102.6	0.017	< 0.04	4.5	71	258	17.6	23-NOV-94:1255
MAA-4	1	7.0	0.2	2.56	< 3	11	6	4	64	10.8	0.005	< 0.04	2.0	5	19	8.0	24-NOV-94:1500
MAA-6	1	7.0	0.2	2.39	5	14	7	5	74	13.2	< 0.005	< 0.04	1.8	6	20	8.8	24-NOV-94:1435
MOE-3	1	7.0	0.4	0.32	8	8	6	4	76	10.9	0.012	< 0.04	2.2	6	33	11.8	22-NOV-94:1100
MOE-4	1	7.0	0.1	1.20	4	10	5	4	58	9.5	0.007	< 0.04	2.9	4	19	10.3	22-NOV-94:1145

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
**INSTITUTE FOR WATER QUALITY STUDIES**

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : D73

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
MOE-7	1	7.0	0.2	1.44	6	14	8	4	86	13.9	0.006	< 0.04	3.7	8	29	10.2	22-NOV-94:1005
ROV-1	1	8.0	0.4	3.93	58	106	91	54	835	107.0	0.007	< 0.04	7.1	62	360	26.4	23-NOV-94:1100
VRS1	1	8.0	0.5	7.38	37	114	81	44	805	105.6	0.010	< 0.04	6.0	80	335	20.1	22-NOV-94:1245
VRS3	2	8.0	0.5	12.10	57	179	99	59	966	141.0	0.008	< 0.04	10.6	93	339	23.0	22-NOV-94:1355

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : E30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
API	3	8.0	1.4	4.27	365	1162	613	147	2859	434.0	0.020	0.07	13.4	155	314	7.6	09-MAY-95:1020
DS1	3	7.0	1.4	13.35	289	1204	591	123	2653	423.0	0.022	0.24	12.9	163	171	8.1	09-MAY-95:1500
GE1	3	8.0	2.6	5.93	580	2783	1370	210	5648	858.0	0.020	0.08	26.1	386	216	9.2	11-MAY-95:1340
KL1	3	8.0	1.6	3.01	281	1094	525	140	2635	397.0	0.021	0.06	10.0	184	317	10.7	11-MAY-95:0930
KL2	3	8.0	2.3	2.36	238	823	462	104	2316	333.0	0.014	0.06	5.7	135	440	12.9	11-MAY-95:1000
KS1	3	8.0	2.0	1.86	519	2488	1113	240	4971	762.0	0.017	0.07	29.8	333	196	10.2	10-MAY-95:1210
KS2	3	8.0	1.9	1.80	439	2034	879	207	4129	633.0	0.018	0.06	29.8	278	207	12.6	10-MAY-95:1225
LG1	3	8.0	1.1	5.73	586	864	468	149	2595	344.0	0.016	0.06	7.7	181	256	9.2	10-MAY-95:1445
OS1	3	8.0	1.5	11.16	172	839	511	67	2050	302.0	0.040	0.06	21.0	93	243	17.8	10-MAY-95:1320
UL1	3	8.0	2.0	6.52	464	1905	999	159	4097	627.0	0.017	0.06	34.2	217	237	9.1	10-MAY-95:1040
UL2	3	8.0	1.7	4.66	295	1129	584	117	2659	410.0	0.020	0.05	16.8	164	271	14.6	10-MAY-95:1100
VZ1	3	8.0	2.0	0.28	464	1454	812	92	3332	510.0	0.014	0.17	6.1	217	233	7.0	11-MAY-95:1100
VZ2	3	7.0	1.7	1.88	711	1371	696	167	3609	525.0	0.015	0.10	17.8	281	292	8.3	11-MAY-95:1300

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : E40

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G39646	3	7.0	0.9	2.45	238	1515	512	190	2990	540.0	0.005	< 0.04	4.4	272	202	7.8	21-SEP-94:1300
G39646	3	7.0	4.9	1.95	231	1465	501	184	2910	528.0	< 0.005	< 0.04	3.7	268	200	7.9	23-SEP-94:1130
G39646	3	7.0	1.1	1.95	260	1497	516	187	2997	496.0	0.011	< 0.04	4.2	275	204	6.4	23-SEP-94:1130
G39646	3	7.0	1.1	2.41	272	1585	528	192	3130	506.0	0.023	0.15	5.2	283	208	6.5	21-SEP-94:1300
G39859	3	7.0	1.3	11.13	211	651	225	112	1759	299.0	0.012	0.12	6.2	197	252	10.8	20-SEP-94:0645
G39859	2	8.0	0.6	1.77	104	370	165	55	1081	174.0	0.006	0.11	3.4	99	227	8.7	26-SEP-94:0645
G39859	3	7.0	0.6	11.23	228	706	234	117	1856	297.0	0.008	< 0.04	7.3	203	255	8.9	20-SEP-94:0645
G39859	2	8.0	0.4	1.68	112	374	165	56	1083	171.0	0.010	< 0.04	3.4	96	220	7.2	26-SEP-94:0645
G39861	2	8.0	2.7	< 0.04	12	93	146	2	507	64.8	0.009	< 0.04	< 0.3	4	202	6.2	17-SEP-94:1130
G39972	2	8.0	1.0	< 0.04	156	263	130	69	1067	152.0	0.012	< 0.04	2.8	96	287	9.1	16-SEP-94:1145
G39973	3	9.0	12.5	< 0.04	27	94	145	< 1	455	73.1	0.033	1.24	1.1	2	141	14.8	10-OCT-94:1345
G39973	3	10.0	15.8	< 0.04	22	85	139	< 1	441	70.0	0.028	1.62	< 0.3	< 1	144	18.0	18-OCT-94:0540
G39973	3	8.0	9.8	0.12	34	96	153	< 1	492	76.4	0.013	1.04	0.7	1	160	14.7	10-OCT-94:1345
G39973	3	9.0	13.9	0.04	24	85	143	< 1	455	70.5	0.013	1.04	< 0.3	< 1	153	17.3	18-OCT-94:0540

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : F30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
BN1	3	7.7	3.2	0.05	322	1633	495	209	3149	506.0	0.011	0.08	9.3	297	148	10.6	12-JUN-95:0830
BN2	3	7.7	2.2	0.08	235	1081	372	132	2270	367.0	0.010	0.05	9.2	237	164	11.4	13-JUN-95:0210
DT2	3	7.4	1.0	4.34	184	2003	885	170	3560	648.0	0.015	0.08	38.2	161	81	22.6	09-JUN-95:1030
DY1	2	7.8	3.1	1.45	32	115	54	19	372	59.7	0.012	< 0.04	2.8	35	86	18.9	13-JUN-95:0315
KE3	3	7.7	0.7	7.22	169	1221	617	109	2344	431.0	0.013	0.05	33.3	76	71	11.5	18-MAY-95:0100
KF1	2	7.9	2.7	2.65	61	287	105	32	687	115.8	0.010	< 0.04	3.1	80	86	12.2	12-JUN-95:0930
KN1	3 <sup>+</sup>	8.4	3.5	11.46	263	967	535	92	2350	392.0	0.014	0.05	10.8	138	238	19.4	14-JUN-95:0430
KN2	3	7.5	3.5	0.06	171	699	272	74	1559	279.0	0.017	0.05	12.9	155	140	17.5	14-JUN-95:0510
KS1	3	7.6	1.7	4.53	240	856	541	54	1905	335.0	0.017	< 0.04	15.7	58	97	23.5	18-MAY-95:0140
KS2	3	7.9	1.9	0.07	103	765	273	83	1508	279.0	0.010	0.21	14.5	126	115	6.9	12-JUN-95:0250
MP1	3	7.8	3.8	4.87	410	2421	898	244	4683	747.0	0.010	0.07	16.4	421	203	11.9	14-JUN-95:1030
MP2	3	7.8	3.4	1.24	119	713	369	33	1502	256.0	0.010	< 0.04	9.8	107	116	27.0	14-JUN-95:0100
NP1	3	7.2	3.2	< 0.04	159	999	313	122	1903	321.0	0.017	2.18	12.2	177	94	4.8	12-JUN-95:0115
NS1	3	7.8	3.0	2.47	615	2248	1129	175	4775	779.0	0.015	0.06	30.5	311	207	14.8	09-JUN-95:1215
OK1	2	8.3	3.6	0.14	48	149	99	16	549	80.7	0.011	< 0.04	2.8	50	147	13.8	13-JUN-95:0400
SP1	3	7.8	0.7	0.16	175	1123	656	63	2239	409.0	0.036	< 0.04	28.4	65	104	15.6	08-JUN-95:0500
SP2	3	7.7	0.7	0.13	175	1162	706	59	2325	428.0	0.020	< 0.04	30.0	59	109	14.5	08-JUN-95:0530
SR1	3	8.0	2.3	< 0.04	771	4433	2375	266	8495	1360.0	0.009	0.69	102.1	310	191	9.9	16-MAY-95:1130

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
**INSTITUTE FOR WATER QUALITY STUDIES**

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : F30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
SR2	3	6.9	1.9	0.05	791	5116	2431	358	9384	1510.0	0.014	3.70	127.3	470	67	1.1	16-MAY-95:1215
WF1	3	8.0	3.5	5.67	287	1003	482	94	2311	375.0	0.013	0.07	14.9	176	185	14.0	16-MAY-95:0400

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : F40

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
EPI	2	7.8	0.4	< 0.04	43	361	202	27	747	129.8	0.009	< 0.04	10.9	18	69	2.8	07-JUN-95:1220
GPI	3	7.5	0.9	0.05	997	7949	3326	668	14084	2030.0	0.017	0.58	127.9	842	140	7.7	17-MAY-95:1000
HD1	3	8.0	1.4	38.67	112	615	496	42	1944	290.0	0.094	0.05	17.8	82	333	11.9	08-JUN-95:1430
HI1	3	7.8	0.6	0.05	119	1874	935	109	3334	547.0	0.014	0.04	45.2	118	109	13.6	07-JUN-95:0950
KE1	2	8.0	0.9	1.54	55	552	323	24	1086	205.0	0.020	0.05	13.4	21	74	16.7	18-MAY-95:1140
KE2	3	8.0	0.5	6.40	192	1526	966	61	3001	547.0	0.029	< 0.04	34.1	45	121	25.3	18-MAY-95:1240
KM1	3	7.9	2.9	12.03	451	2609	1172	258	5005	911.0	0.013	0.08	43.7	243	141	11.8	18-MAY-95:0245
KN1	3	7.8	0.5	2.10	49	670	364	47	1294	257.0	0.019	< 0.04	15.6	45	77	24.9	08-JUN-95:0930
KN2	3	7.9	0.6	0.25	158	1386	849	53	2682	487.0	0.032	< 0.04	42.5	47	118	16.1	08-JUN-95:0430
KY1	3	7.8	2.0	1.42	683	2640	1657	143	5593	939.0	0.014	0.05	91.4	175	160	17.4	08-JUN-95:1140
PY3	1	7.7	0.6	8.02	9	58	42	3	205	34.7	0.018	< 0.04	4.0	17	30	15.7	08-JUN-95:1045
R11	3	8.0	0.8	0.11	306	1952	1251	91	4005	642.0	0.020	0.04	42.6	79	231	14.5	07-JUN-95:1040
RL7	3	8.0	0.8	2.02	220	1878	1131	80	3632	584.0	0.020	0.91	40.8	66	169	5.8	08-JUN-95:1300
SK1	3	7.8	0.9	0.37	364	2755	1188	238	5141	797.0	0.013	0.07	47.8	326	180	13.0	17-MAY-95:1045
SN1	3	8.0	0.6	22.00	57	258	274	16	1019	150.0	0.149	< 0.04	6.8	32	227	11.8	07-JUN-95:1445
SN4	3	8.0	2.5	0.52	846	9519	4305	283	16685	2410.0	0.028	0.10	150.9	1419	130	17.5	06-JUN-95:1600
SS1	3	8.3	1.5	0.07	118	913	545	43	1859	302.0	0.015	< 0.04	27.1	36	144	7.7	17-MAY-95:1230
TE1	2	8.0	0.6	0.24	27	276	195	11	641	115.2	0.011	< 0.04	10.0	11	90	24.7	08-JUN-95:1215

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : F40

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
ZA1	2	7.8	0.5	1.14	27	347	214	17	695	123.4	0.018	< 0.04	9.7	14	50	33.8	07-JUN-95:1130

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
**INSTITUTE FOR WATER QUALITY STUDIES**  
 DEPARTMENT OF WATER AFFAIRS AND FORESTRY  
 PRIVATE BAG X313  
 PRETORIA  
 0001

PROVINCE : NORTHERN CAPE

DRAINAGE REGION : L21

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
5279	1	8.0	1.2	5.37	76	61	58	22	651	84.4	0.007 <	0.04	3.0	90	259	6.2	12-OCT-94:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WESTERN CAPE

15-Nov-1995 12:36 PM

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
**INSTITUTE FOR WATER QUALITY STUDIES**

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

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Page 1

PROVINCE : WESTERN CAPE

DRAINAGE REGION : E10

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G39979	2	8.0	2.8	0.06	8	98	216	< 1	762	99.9	0.033	0.55	2.6	4	352	6.8	21-OCT-94:1200
G39979	3	7.0	1.9	0.06	378	1692	864	68	3455	603.0	0.008	0.95	15.8	295	113	4.9	20-OCT-94:1200
G39979	2	8.0	3.1	0.08	15	148	238	3	814	114.0	0.015	0.88	3.0	6	326	6.3	21-OCT-94:1200

KEY CLASS: 1 Suitable for potable use      2 Suitable for short term potable use      3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : WESTERN CAPE

DRAINAGE REGION : E30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
DE1	3	8.0	3.0	0.22	645	1601	728	158	3666	524.0	0.014	0.06	22.1	314	159	10.2	12-MAY-95:1400
GP1	2	8.0	2.4	8.89	103	437	237	65	1284	182.0	0.019	< 0.04	5.3	106	238	13.4	12-MAY-95:1200
GP2	2	8.0	2.8	6.38	102	458	247	58	1246	178.0	0.016	0.04	6.1	82	215	14.2	12-MAY-95:1230
GP3	3	8.0	1.9	4.45	131	1121	485	114	2265	396.0	0.016	0.06	18.7	149	185	14.7	12-MAY-95:1245
KD1	3	8.0	2.9	3.52	322	1253	811	95	3005	425.0	0.016	0.06	20.3	109	308	6.1	12-MAY-95:1650
KE1	3	8.0	2.6	17.42	903	1862	1188	173	4909	632.0	0.014	0.09	30.4	268	333	5.2	12-MAY-95:1440
KE2	3	8.0	1.9	0.89	247	1442	823	84	2949	441.0	0.013	0.05	15.9	124	171	5.9	12-MAY-95:1515
KL1	3	8.0	1.3	1.93	321	1403	589	161	2897	459.0	0.014	0.06	16.4	228	140	8.7	12-MAY-95:1100
OB1	3	8.0	2.1	78.56	1515	3932	1877	428	9267	1253.0	0.133	0.33	81.8	776	251	17.0	12-MAY-95:1000
RF1	2	8.0	1.9	13.60	95	232	198	39	1008	144.0	0.025	0.05	4.1	61	260	12.2	10-MAY-95:0900

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

15-Nov-1995 12:36 PM

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
**INSTITUTE FOR WATER QUALITY STUDIES**

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

Page 3

PROVINCE : WESTERN CAPE

DRAINAGE REGION : G20

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
BE1	1	8.0	0.6	< 0.04	82	160	142	20	619	94.2	0.010	< 0.04	3.5	20	156	22.8	01-OCT-94:1500
LS1	2	7.0	0.5	2.74	95	445	215	38	916	179.0	0.014	< 0.04	13.5	52	37	2.5	15-OCT-94:1500

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



# EASTERN CAPE

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : EASTERN CAPE

DRAINAGE REGION : M10

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G40035	2	7.0	0.3	0.42	48	220	119	27	626	100.8	0.007	< 0.04	8.4	39	133	3.8	12-OCT-94:1445
G40035A	3	< 2.0	0.3	< 0.04	83	3537	55	7	3698	3340.0	0.038	0.14	3.6	13	< 4	2.4	31-OCT-94:0930
G40035B	3	< 2.0	0.2	1000.00	< 3	57	39	12	11917	5200.0	0.301	0.37	4.5	9	< 4	33.6	21-OCT-94:1000
G40036	3	< 2.0	1.5	18.22	530	4485	455	113	6671	2940.0	2.417	67.23	758.3	155	< 4	16.2	18-NOV-94:1200
G40037	3	< 2.0	0.5	0.10	171	4062	392	63	5084	2930.0	26.874	105.04	109.7	70	< 4	37.1	18-NOV-94:1000
G40038	3	< 2.0	0.5	0.15	534	6701	1508	212	9230	3810.0	0.324	1.22	78.7	194	< 4	8.9	30-NOV-94:0910
G40039	3	< 2.0	0.3	0.09	201	5075	803	90	6381	3310.0	1.759	4.94	112.9	87	< 4	33.2	05-DEC-94:1515
G40040	3	2.0	0.4	0.05	5684	21877	11016	2895	43942	7980.0	1.575	32.77	694.6	1729	< 4	39.2	08-DEC-94:1300
G40041	3	< 2.0	0.6	< 0.04	597	6026	902	134	7770	4030.0	0.153	1.30	15.6	94	< 4	16.2	09-DEC-94:1545
G40042	3	8.0	1.0	1000.00	192	1727	2784	366	16755	1680.0	0.137	39.24	1679.0	165	1666	7.2	15-DEC-94:1100
G40043	3	< 2.0	1.4	< 0.04	1684	21556	9699	1174	34724	5990.0	1.178	1.65	94.2	511	< 4	23.7	16-DEC-94:0500
G40044	3	< 2.0	0.6	< 0.04	229	5542	664	97	6713	4170.0	1.241	2.68	78.5	95	< 4	11.1	15-DEC-94:0600

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

15-Nov-1995 09:23 AM

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

Page 2

PROVINCE : EASTERN CAPE

DRAINAGE REGION : P40

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G44073	3	9.1	4.7	< 0.04	4	137	104	< 1	322	60.1	0.006	< 0.04	2.2	6	52	5.2	24-AUG-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

15-Nov-1995 09:23 AM

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
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PROVINCE : EASTERN CAPE

DRAINAGE REGION : Q14

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
QMMDG3	2	8.0	2.7	0.04	25	48	59	8	426	59.3	0.009 <	0.04	1.3	50	191	9.7	01-NOV-94:1616

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

15-Nov-1995 09:23 AM

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

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DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

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PROVINCE : EASTERN CAPE

DRAINAGE REGION : R10

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43678	1	8.3	0.8	1.10	17	37	56	12	369	51.4	0.018	0.08	2.8	28	173	14.5	14-AUG-95:1200
G44071	2	8.3	1.8	0.04	23	125	101	20	652	94.9	0.009	0.07	3.7	62	258	10.6	29-AUG-95:1200
G44076	1	8.3	0.9	0.90	9	30	28	4	191	29.3	0.015	0.16	7.6	15	76	5.4	28-AUG-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : EASTERN CAPE

DRAINAGE REGION : R20

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G40029	2	8.0	0.6	11.48	18	80	68	30	535	64.1	0.025	0.07	4.3	42	198	20.0	08-MAY-95:1000
G40029A	2	8.0	0.5	11.41	19	78	68	30	544	65.0	0.028	0.06	3.2	43	206	22.4	10-MAY-95:1330
G40110	1	8.0	1.2	0.36	18	182	166	14	807	96.0	0.052	0.27	55.1	26	281	7.0	19-MAY-95:0900

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

15-Nov-1995 09:23 AM

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
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Page 6

PROVINCE : EASTERN CAPE

DRAINAGE REGION : R30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43199	1	8.0	0.7	0.48	4	111	84	21	643	87.6	0.015	< 0.04	4.6	76	279	7.4	15-MAY-95:1600

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

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DEPARTMENT OF WATER AFFAIRS AND FORESTRY

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PROVINCE : EASTERN CAPE

DRAINAGE REGION : R40

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43690	3	7.0	1.6	0.27	219	2462	884	260	4542	665.0	0.014	0.08	9.5	354	288	7.4	22-JUN-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

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PROVINCE : EASTERN CAPE

DRAINAGE REGION : S30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
C18/01	3	7.8	0.3	0.11	639	6365	2147	633	11072	1560.0	0.014	0.44	84.0	929	224	19.2	24-JUL-95:1700
G40084	2	8.0	0.7	12.77	12	100	93	25	720	84.5	0.028	0.04	3.3	79	287	10.2	25-APR-95:1500

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

15-Nov-1995 09:23 AM

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
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PROVINCE : EASTERN CAPE

DRAINAGE REGION : S60

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
MS1	1	8.0	0.5	0.08	11	113	87	8	412	60.3	0.040	< 0.04	7.0	29	129	11.2	03-JUL-95:1751

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



**KWAZULU NATAL**

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

Page 1

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : T40

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
405530	1	7.7	0.7	6.71	5	144	84	38	671	90.9	0.033	< 0.04	2.1	60	252	8.7	18-MAY-95:1200
405533	1	7.6	0.6	4.33	8	108	63	29	533	70.7	0.044	1.03	2.7	47	208	7.6	17-MAY-95:1200
405534	1	7.4	1.2	9.18	6	26	48	6	262	34.9	0.044	< 0.04	7.2	11	95	10.4	17-MAY-95:1200
405535	1	7.4	0.6	2.77	4	56	42	20	364	49.3	0.027	< 0.04	3.2	28	162	11.8	19-MAY-95:1200
405536	1	8.0	0.4	0.11	4	59	38	25	400	50.6	0.026	< 0.04	6.3	34	192	8.6	20-MAY-95:1200
405537	1	8.1	0.7	3.28	4	32	41	14	323	38.6	0.036	< 0.04	8.9	19	154	5.6	23-MAY-95:1600
405544	1	7.7	0.7	3.63	3	104	71	29	542	76.1	0.024	< 0.04	4.2	41	223	4.9	26-MAY-95:1200
405546	2	8.3	1.8	0.05	17	78	121	20	575	71.3	0.036	< 0.04	4.4	16	258	6.4	27-MAY-95:1200
405547	1	7.4	0.7	6.65	4	33	47	22	445	55.7	0.012	< 0.04	2.1	41	218	10.1	29-MAY-95:1200

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

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0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : T50

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
405424	1	7.4	0.9	0.83	43	164	163	24	715	98.5	0.011	< 0.04	2.0	26	237	6.9	14-MAY-95:1200
405518	2	7.2	0.8	0.72	32	326	188	48	990	150.0	0.021	< 0.04	3.2	65	265	5.5	15-MAY-95:1200
405519	3	6.1	0.6	5.16	49	821	318	82	1425	250.0	0.026	0.05	4.1	71	46	6.5	16-MAY-95:1200
405521	3	8.0	1.3	0.05	156	2880	1268	253	5109	852.0	0.022	0.05	28.4	242	229	2.3	26-APR-95:1200
405522	2	8.0	1.1	6.28	39	586	298	64	1299	240.0	0.054	0.05	4.2	75	168	5.3	06-MAY-95:1200
405525	1	7.7	0.8	7.11	8	108	102	33	641	86.4	0.029	< 0.04	5.6	34	261	3.1	09-MAY-95:1200
405527	1	7.9	0.7	5.29	11	65	76	27	515	67.3	0.035	0.07	4.5	29	229	8.2	11-MAY-95:1200
405540	1	8.3	0.7	3.95	4	60	57	20	408	55.3	0.045	0.23	9.4	22	177	2.5	24-MAY-95:1200
405541	1	7.9	0.6	6.83	4	76	75	28	583	76.8	0.022	< 0.04	3.0	47	262	7.1	25-MAY-95:1200
405543	1	8.2	0.6	2.13	< 3	21	25	8	211	27.5	0.030	< 0.04	5.1	15	102	14.8	26-MAY-95:1200
405551	1	7.5	0.6	6.74	17	53	44	14	376	49.6	0.040	< 0.04	4.6	34	147	9.6	30-MAY-95:1200
405555	2	8.5	2.2	0.08	14	19	81	6	381	43.2	0.050	< 0.04	11.1	10	195	2.9	08-JUN-95:1200
405557	1	7.8	0.4	< 0.04	13	79	81	24	548	72.5	0.039	< 0.04	4.4	40	251	8.1	09-JUN-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
**INSTITUTE FOR WATER QUALITY STUDIES**

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : U10

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
402002	1	7.5	0.3	1.81	4	36	31	13	277	38.1	0.023	< 0.04	2.8	28	127	15.8	04-MAY-95:1200
402004	1	7.8	0.4	4.60	19	13	46	26	471	57.3	0.008	< 0.04	1.4	41	250	19.1	05-MAY-95:1400

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : U80

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
402013	1	6.8	0.5	8.37	12	47	37	13	234	37.2	0.008	< 0.04	4.0	11	60	19.9	02-MAY-95:1200
402014	3	6.9	0.7	25.78	< 3	107	82	12	399	65.4	0.007	0.14	2.8	21	47	14.9	01-MAY-95:1200
402017	1	6.5	0.6	0.10	4	15	17	2	85	12.8	0.019	< 0.04	2.2	2	34	17.9	03-MAY-95:1200
402018	1	7.7	1.4	0.79	7	31	38	8	259	37.3	0.010	< 0.04	3.0	21	120	22.8	03-MAY-95:1200
402233	1	7.6	0.8	1.24	14	36	40	11	285	39.5	0.029	< 0.04	1.8	23	125	13.1	08-MAY-95:1200
402241	1	7.7	0.7	3.04	< 3	29	24	17	243	34.0	0.055	< 0.04	2.1	17	112	28.6	07-MAY-95:1200
402291	1	6.8	1.0	8.64	4	83	59	10	306	50.9	0.037	< 0.04	2.4	18	73	24.5	08-MAY-95:1200
402299	1	7.2	0.5	4.10	< 3	34	31	9	203	29.1	0.066	< 0.04	1.9	11	77	21.3	11-MAY-95:1200
MAHLABA	1	7.1	0.5	3.90	3	22	25	7	158	24.0	0.065	< 0.04	2.7	8	60	18.1	07-MAY-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : V30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
K0028	1	8.0	0.2	1.41	< 3	7	5	6	120	16.6	0.009	< 0.04	< 0.3	16	64	15.5	02-DEC-94:0900
K03	1	7.0	0.2	0.34	8	21	34	21	534	63.0	0.006	< 0.04	3.7	71	307	15.3	19-DEC-94:1315
K04	1	8.0	0.1	< 0.04	40	12	24	17	340	46.0	< 0.005	0.04	1.7	42	167	21.6	14-DEC-94:0930
K08	1	7.0	0.2	0.10	11	26	18	15	366	48.2	0.008	< 0.04	2.2	55	195	12.2	19-DEC-94:1445

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : V40

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
204170	3	7.9	0.5	49.59	74	281	129	80	1262	185.0	0.026	0.05	9.6	117	289	12.2	14-SEP-95:0300
204171	1	7.6	0.6	0.07	37	136	120	59	902	118.3	0.042	< 0.04	16.9	45	399	8.4	13-SEP-95:1200
B203347	1	8.3	1.1	0.31	58	116	131	50	881	115.8	0.005	< 0.04	8.2	52	380	13.6	23-AUG-95:1056
B204173	1	7.7	0.2	1.96	8	12	16	19	286	36.0	0.009	< 0.04	2.8	28	156	15.5	29-SEP-95:1030
B204175	1	7.7	0.4	< 0.04	26	35	47	32	512	64.7	0.010	0.04	3.1	51	261	13.9	30-SEP-95:0600
B204178	1	7.6	0.3	0.67	13	25	31	11	212	30.6	0.011	< 0.04	5.1	13	91	3.5	03-OCT-95:1200
NN1	1	7.2	0.5	< 0.04	13	10	15	13	265	32.9	< 0.005	< 0.04	2.3	32	146	7.3	29-AUG-95:1230
NN2	1	7.9	0.8	1.25	27	37	51	28	531	64.4	0.027	< 0.04	2.4	47	272	11.5	29-AUG-95:1230
NN3	1	7.5	0.7	< 0.04	127	14	30	48	728	82.3	0.009	< 0.04	3.3	91	340	11.8	29-AUG-95:1230
NN4	1	8.1	0.6	< 0.04	26	18	26	53	796	82.9	0.005	< 0.04	2.2	107	463	11.2	29-AUG-95:1230
NN5	1	7.5	0.7	1.74	17	27	66	49	844	88.4	0.023	< 0.04	3.1	84	483	14.5	29-AUG-95:1235

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : V50

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
B203317	1	7.6	0.5	0.95	6	13	17	2	83	13.3	0.030	< 0.04	4.2	3	27	13.2	05-JUL-95:0200
B203317	1	7.2	0.3	1.17	4	17	17	2	72	10.9	0.088	< 0.04	2.7	< 1	19	15.0	17-AUG-95:0300
B203331	2	8.4	2.0	2.78	9	21	76	27	576	61.2	0.017	< 0.04	8.1	32	319	20.6	27-JUL-95:1100
B203331	1	7.6	1.3	2.83	10	20	76	28	607	67.1	0.027	< 0.04	7.4	39	339	32.0	06-SEP-95:0315
B203333	3	8.1	2.4	32.36	18	230	154	117	1432	180.0	0.015	0.04	27.1	63	555	20.9	27-JUL-95:0420
B203333	3	8.0	2.7	36.37	18	229	159	128	1662	196.0	0.035	0.05	22.6	95	694	27.3	07-SEP-95:0315
B203335	2	7.9	0.7	2.18	82	306	199	75	1221	194.0	0.021	0.06	21.5	66	379	15.9	19-SEP-95:0100
B203338	2	8.5	2.7	4.00	23	283	273	110	1509	212.0	0.011	0.07	15.0	20	627	7.0	21-JUL-95:1740
B203338	3	8.0	2.7	23.34	22	231	247	112	1614	195.0	0.049	0.04	14.7	53	679	14.2	05-SEP-95:0315
B203339	1	8.5	0.5	0.07	46	71	55	60	638	83.7	0.027	< 0.04	8.6	35	296	12.0	16-AUG-95:0820
B203344	1	8.4	0.5	1.21	8	36	46	15	382	45.9	0.025	< 0.04	4.4	34	190	17.6	09-AUG-95:1000
B203345	2	8.0	1.9	0.06	34	129	252	65	1336	165.0	0.023	0.05	13.2	32	663	18.9	18-AUG-95:0515
B203345	2	8.0	2.0	7.62	24	132	236	77	1535	170.0	0.032	0.05	11.4	63	783	17.0	12-SEP-95:0345
B203349	3	8.9	1.9	26.50	58	336	330	144	1877	231.0	0.020	< 0.04	35.6	5	696	4.5	24-AUG-95:0310
B203356	3	7.8	2.0	37.28	222	882	331	217	2411	360.0	0.028	0.06	33.1	112	366	8.0	08-SEP-95:0500
B203357	2	8.2	2.2	< 0.04	316	324	264	108	1620	219.0	0.018	< 0.04	15.0	76	421	8.6	13-SEP-95:0230
B203359	2	8.2	4.0	1.95	269	288	304	46	1255	199.0	0.041	< 0.04	22.1	37	227	5.1	15-SEP-95:0500

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W11

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
B203353	1	8.3	0.8	< 0.04	9	39	35	13	340	41.5	0.033	< 0.04	4.4	35	166	15.7	06-SEP-95:0830
B203315	1	7.1	0.3	2.05	9	20	19	2	88	15.4	0.107	< 0.04	5.0	2	17	13.0	04-JUL-95:0400
B203315	1	6.8	0.3	1.08	4	20	18	2	80	13.1	0.701	< 0.04	3.6	2	19	13.8	16-AUG-95:0430
B203316	1	8.1	0.6	0.18	7	34	37	7	231	34.1	0.010	< 0.04	11.3	13	98	7.4	17-JUL-95:1020
B203316	1	8.0	0.3	0.44	10	31	35	8	214	31.9	0.028	< 0.04	2.3	14	92	13.6	04-SEP-95:0345
B203318	2	8.3	1.8	< 0.04	12	62	54	14	420	57.1	0.025	0.05	3.7	47	185	11.8	05-JUL-95:0100
B203318	1	8.1	1.4	< 0.04	8	85	68	12	458	62.4	0.050	< 0.04	2.9	49	190	16.5	18-AUG-95:0300
B203322	1	8.3	0.2	2.89	7	32	39	8	237	34.9	0.049	< 0.04	4.3	13	99	14.9	14-JUL-95:1345
B203322	1	7.4	0.5	2.82	4	32	38	8	233	30.7	0.059	< 0.04	1.9	13	101	19.1	31-AUG-95:1200
B203324	1	8.4	0.9	4.28	9	46	61	20	442	54.5	0.017	0.06	5.5	26	208	9.8	14-JUL-95:0750
B203324	1	7.8	0.6	3.91	6	41	57	23	424	55.2	0.014	0.10	2.9	32	200	13.9	30-AUG-95:1200
B203325	1	8.3	1.2	0.16	6	52	57	13	328	46.1	0.005	< 0.04	5.2	18	144	6.8	20-JUL-95:1045
B203325	1	7.6	0.7	0.15	4	41	53	15	367	47.5	0.128	< 0.04	4.2	30	179	20.1	24-AUG-95:0830
B203326	1	8.2	0.3	< 0.04	20	65	44	12	396	57.8	0.018	< 0.04	4.5	49	166	9.5	07-JUL-95:1700
B203326	1	7.6	0.5	< 0.04	13	51	43	7	341	47.3	0.314	< 0.04	3.5	46	145	28.8	23-AUG-95:1200
B203330	1	8.4	0.9	< 0.04	19	146	114	14	498	79.1	0.013	< 0.04	3.0	24	145	11.3	29-AUG-95:1200
B203332	1	8.4	0.6	6.16	11	123	122	22	633	90.8	0.020	0.05	4.4	32	238	7.3	11-JUL-95:1030
B203332	1	8.1	1.2	6.59	10	116	115	26	656	83.3	0.033	0.05	2.7	41	258	15.5	25-AUG-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
**INSTITUTE FOR WATER QUALITY STUDIES**

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W11

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
B203334	1	8.3	0.7	4.00	< 3	65	80	21	503	67.9	0.012	< 0.04	3.2	37	228	13.2	18-JUL-95:0945
B203336	1	8.2	0.9	0.32	11	79	58	12	367	53.4	0.026	< 0.04	3.9	32	139	9.1	18-JUL-95:1635
B203336	1	7.2	0.5	0.39	7	74	61	12	378	53.2	0.130	< 0.04	2.8	36	151	16.4	21-AUG-95:0430
B203340	1	8.1	0.7	4.19	8	29	34	12	273	34.8	0.021	< 0.04	2.7	20	121	22.7	31-JUL-95:0100
B203350	1	8.5	1.4	5.77	16	76	102	28	601	82.2	0.018	< 0.04	12.6	27	258	4.7	25-AUG-95:0550
B203350	1	8.0	0.9	5.66	10	62	90	31	604	75.3	0.011	< 0.04	5.3	36	283	11.6	02-SEP-95:1200
B203351	1	8.2	0.6	1.53	9	30	33	9	217	29.8	0.013	0.04	5.8	12	90	15.4	29-AUG-95:0830
B203351	1	8.1	0.4	1.08	7	28	28	8	230	32.2	0.068	< 0.04	2.5	24	105	16.6	03-SEP-95:1245

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W12

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202191	1	8.0	0.6	0.06	15	12	37	3	176	21.8	0.037	< 0.04	5.9	4	81	4.3	24-MAY-95:1600
202192	1	8.0	0.6	0.04	18	12	36	3	176	23.1	0.052	< 0.04	6.0	4	80	4.4	27-MAY-95:1200
202192	1	8.3	0.2	0.08	12	11	28	2	117	20.1	0.025	< 0.04	3.3	3	47	14.1	27-MAY-95:1200
202193	1	8.0	1.0	1.19	31	29	49	6	300	43.0	0.047	< 0.04	17.7	16	118	2.9	31-MAY-95:1200
202194	1	8.5	0.5	0.04	13	9	16	7	175	21.9	0.044	< 0.04	13.7	10	87	18.2	30-MAY-95:1200
202194	1	7.0	0.4	0.23	8	6	13	5	103	15.8	0.033	< 0.04	3.6	7	48	15.9	23-JUN-95:1600
202195	1	7.5	0.5	< 0.04	13	10	8	9	164	20.5	0.049	0.04	3.2	15	86	6.3	26-MAY-95:0000
202195	1	7.7	0.8	1.53	4	10	9	8	142	18.9	0.006	< 0.04	2.7	16	70	17.8	26-MAY-95:1611
202196	1	7.0	0.2	0.07	10	6	12	4	101	11.7	0.051	< 0.04	3.5	4	50	19.5	29-MAY-95:1200
202196	1	7.0	0.3	0.04	7	4	10	5	93	12.9	0.014	< 0.04	3.4	5	48	16.6	22-JUN-95:1400
202197	1	6.0	0.4	0.38	10	20	18	3	94	14.1	0.047	< 0.04	2.0	3	30	15.6	27-MAY-95:1200
202197	1	6.0	0.4	0.41	5	8	16	3	89	12.2	0.100	< 0.04	2.3	3	40	21.5	27-MAY-95:1500
202199	1	7.5	0.2	0.50	9	8	11	3	83	11.4	0.022	< 0.04	2.3	6	32	9.6	31-MAY-95:1200
202199	1	6.8	0.1	0.63	6	9	9	3	79	11.7	0.012	< 0.04	1.5	5	34	12.4	31-MAY-95:1605
202200	1	7.0	0.4	0.07	7	11	12	6	151	18.2	0.014	< 0.04	10.3	10	77	4.8	31-MAY-95:1200
202200	1	7.2	0.2	< 0.04	5	9	9	4	95	13.9	0.017	< 0.04	3.7	6	46	15.6	31-MAY-95:1210
202201	1	8.0	0.2	< 0.04	7	11	13	9	153	20.2	0.019	< 0.04	7.3	9	78	8.4	25-MAY-95:1200
202202	1	7.7	0.3	0.65	10	11	24	3	124	17.1	0.121	< 0.04	3.0	5	53	18.1	01-JUN-95:1200

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W12

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202202	1	7.2	0.2	0.87	7	8	22	1	97	15.6	0.081	< 0.04	2.4	3	40	20.3	01-JUN-95:1110
202203	1	8.1	0.3	0.05	11	15	21	5	138	18.6	0.070	0.05	3.4	8	60	20.8	01-MAY-95:1200
202203	2	8.0	0.8	0.06	37	387	362	64	1626	240.0	0.019	0.12	3.5	53	589	9.3	01-MAY-95:0800
202203	1	6.9	0.3	0.11	< 3	16	19	5	133	19.3	0.035	< 0.04	2.7	9	64	26.9	01-MAY-95:1115
202204	1	7.9	0.4	1.57	5	14	33	2	140	19.5	0.036	< 0.04	2.5	4	59	23.1	04-JUN-95:1200
202204	1	7.1	0.6	1.62	< 3	15	31	3	144	19.8	0.229	< 0.04	2.2	6	64	30.1	04-JUN-95:1052
202205	1	7.8	0.4	< 0.04	20	88	83	20	558	79.1	0.014	< 0.04	4.0	46	244	19.9	22-JUN-95:1600
202206	1	7.2	0.3	0.78	6	10	13	2	69	12.2	0.026	0.05	3.7	4	23	9.0	26-JUN-95:0142
202207	1	7.9	0.6	0.51	10	21	24	3	120	17.4	0.204	0.04	2.7	4	42	18.7	05-JUN-95:1200
202208	1	5.6	0.3	< 0.04	20	15	20	6	213	28.7	0.028	0.04	3.0	31	97	11.5	05-JUN-95:1200
202208	1	7.4	0.3	1.00	7	17	17	4	188	26.5	0.022	< 0.04	2.6	25	92	12.9	04-JUN-95:1115
202209	1	8.0	0.3	1.93	11	16	19	5	190	25.2	0.060	< 0.04	7.6	22	82	5.3	09-JUN-95:1800
202210	1	7.6	0.5	< 0.04	17	23	31	5	201	28.7	0.030	< 0.04	8.7	16	81	5.2	02-JUN-95:1200
202212	1	8.0	0.3	0.86	7	17	23	6	140	20.4	0.052	< 0.04	2.9	8	60	14.4	08-JUN-95:1200
202212	1	6.9	0.4	0.82	5	16	20	5	143	21.1	0.020	< 0.04	2.6	10	66	21.9	08-JUN-95:1005
202213	1	7.0	0.3	0.10	12	15	21	2	89	13.0	0.022	< 0.04	4.1	2	27	5.4	20-JUN-95:0700
202213	1	6.5	0.4	0.25	4	22	21	2	99	16.2	0.013	< 0.04	3.8	4	34	18.0	20-JUN-95:1410
202214	1	8.2	0.5	0.87	12	76	59	30	463	67.2	0.014	< 0.04	2.7	31	202	11.7	05-JUN-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W12

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202214	1	7.3	0.6	1.07	10	73	56	28	462	63.6	0.017	< 0.04	2.6	31	210	15.3	04-JUN-95:1215
202215	1	7.0	0.5	0.75	27	15	19	3	132	16.2	0.170	0.05	3.1	7	44	18.6	17-JUN-95:0118
202216	1	8.1	0.4	0.40	9	42	48	16	312	45.2	0.014	< 0.04	4.4	17	143	20.2	03-MAY-95:0000
202216	1	7.2	0.4	0.76	8	42	47	17	312	42.5	0.015	< 0.04	3.9	14	145	26.3	04-MAY-95:1420
202217	1	7.0	0.4	0.61	13	14	20	5	176	25.0	0.021	< 0.04	2.8	22	79	14.7	15-JUN-95:1700
202218	1	7.8	0.4	1.85	5	15	15	4	115	17.8	0.066	< 0.04	2.8	11	44	10.4	06-JUN-95:1200
202219	1	7.9	0.2	0.30	5	9	12	3	110	16.2	0.020	< 0.04	3.4	12	52	11.4	06-JUN-95:1200
202219	1	6.8	0.4	0.45	< 3	9	10	2	59	9.0	0.044	< 0.04	3.0	3	23	13.1	06-JUN-95:1100
202220	1	7.0	0.5	< 0.04	18	24	25	6	190	29.5	0.054	< 0.04	3.9	21	75	9.1	25-JUN-95:1600
202221	1	6.8	0.3	0.32	5	11	11	2	63	9.7	0.055	< 0.04	3.6	3	22	12.8	27-JUN-95:0930
202221A	1	6.9	0.2	0.51	7	8	11	1	59	9.9	0.040	< 0.04	3.5	2	19	11.7	20-JUN-95:1014
202222	1	8.1	0.3	0.04	48	43	48	18	371	36.9	0.015	< 0.04	8.9	28	145	7.4	01-JUN-95:1200
202223	1	7.7	1.0	0.07	14	13	29	3	178	24.8	0.041	< 0.04	11.1	11	79	3.8	27-MAY-95:1200
202224	1	7.0	0.2	0.07	8	12	12	2	61	9.9	0.041	< 0.04	3.8	2	18	7.6	08-JUN-95:1600
202224	1	7.1	0.3	0.42	< 3	11	11	1	58	9.9	0.018	0.23	3.4	3	21	8.5	08-JUN-95:1015
202226	1	7.6	0.5	1.51	6	12	15	2	86	13.8	0.024	< 0.04	4.5	5	28	5.4	30-MAY-95:1200
202226	1	6.5	0.4	2.33	4	13	13	2	74	11.2	0.009	< 0.04	3.6	3	21	10.4	30-MAY-95:1210
202227	1	6.0	0.2	1.16	6	10	6	1	46	5.8	0.018	< 0.04	3.7	1	11	7.0	16-JUN-95:0800

KEY CLASS: 1  Suitable for potable use

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W12

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202228	1	7.0	0.4	0.36	6	4	9	3	75	8.8	0.038	< 0.04	2.2	3	37	15.7	18-JUN-95:1400
202230	3	7.8	0.7	< 0.04	43	1916	1043	102	3735	587.0	0.054	0.07	35.0	97	409	3.7	21-JUN-95:1500
202231	3	8.1	1.7	< 0.04	35	511	488	64	1921	264.0	0.023	0.11	12.2	43	628	12.8	21-JUN-95:1400
202231	3	8.0	1.3	0.04	31	400	400	50	1733	237.0	0.013	0.06	4.8	54	650	15.9	22-JUN-95:1011
202233	2	7.7	1.3	< 0.04	33	421	357	58	1685	237.0	0.010	0.12	3.0	74	604	13.5	23-JUN-95:0315
202236	3	8.1	1.4	< 0.04	62	1330	906	116	3416	493.0	0.030	0.47	14.7	71	750	11.2	25-JUN-95:0800
202236	3	7.9	1.0	0.04	95	1286	913	123	3585	516.0	0.014	0.39	10.2	79	885	12.6	25-JUN-95:0401
202239	3	8.1	1.8	0.07	9	1196	847	15	2508	410.0	0.019	1.09	14.2	35	319	5.2	25-JUN-95:1210
202239	2	8.2	1.1	0.08	46	323	249	6	821	146.0	0.016	< 0.04	3.9	26	135	14.1	25-JUN-95:1215
202240	3	7.1	1.5	0.18	80	1673	927	148	3684	582.0	0.044	0.06	25.0	114	587	7.5	24-JUN-95:1500
202240	3	7.5	1.8	0.17	70	1719	933	153	3797	609.0	0.010	1.22	18.2	146	619	9.7	24-JUN-95:1217
202242	3	8.1	2.1	0.06	50	1531	982	68	3331	563.0	0.016	1.39	25.3	61	500	6.8	26-JUN-95:0800
202245	3	8.1	0.8	0.04	13	1286	802	26	2507	427.0	0.024	1.08	11.9	60	251	3.8	24-JUN-95:1400
202245	3	8.2	0.7	0.22	5	1212	787	24	2453	431.0	0.035	0.77	11.2	78	273	9.1	07-AUG-95:1221
202246	3	8.2	1.0	4.92	77	885	683	70	2770	381.0	0.010	0.90	10.7	87	766	7.3	26-JUN-95:0114
202247	3	8.3	0.7	0.06	131	2176	1239	153	4611	743.0	0.013	0.69	22.1	130	623	8.6	25-JUN-95:0700
202247	3	7.6	1.1	0.26	142	2153	1226	147	4766	655.0	0.014	0.50	23.2	184	728	10.1	26-JUN-95:1118
202248	2	8.3	0.7	< 0.04	30	227	270	42	1201	162.0	0.040	0.82	13.1	26	485	5.5	23-JUN-95:1400

KEY CLASS: 1 Suitable for potable use

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W12

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202248	2	8.0	0.8	< 0.04	36	246	285	42	1303	157.0	0.010	0.11	4.3	35	536	7.1	24-JUN-95:0410
202249	3	8.2	0.8	5.08	85	1310	824	118	3224	504.0	0.020	0.71	20.2	63	640	4.2	23-JUN-95:1400
202249	3	7.9	0.6	1.01	98	1255	806	129	3306	443.0	0.008	0.57	13.2	86	748	8.5	23-JUN-95:0118
202250	3	8.0	0.5	0.05	144	2444	1222	228	4762	760.0	0.033	1.09	119.8	122	393	3.5	22-JUN-95:0150
202250	3	8.1	3.8	< 0.04	22	1366	905	18	2634	410.0	0.013	0.97	9.0	36	224	12.0	22-JUN-95:0215
202251	1	7.9	0.3	< 0.04	22	72	70	21	504	73.1	0.018	< 0.04	3.6	45	222	4.8	30-JUN-95:0324
202256	1	8.1	0.4	0.11	11	126	96	27	513	71.6	0.012	< 0.04	5.3	20	185	3.6	18-JUL-95:1410
202263	2	7.7	0.7	2.71	18	405	226	59	1209	186.0	0.026	0.14	5.1	68	341	7.5	04-JUL-95:0210
202263	2	7.9	1.4	1.99	27	440	273	33	1192	171.0	0.011	0.04	3.7	67	277	10.6	04-JUL-95:1111
202274	2	8.1	0.6	1.60	18	208	151	39	845	118.8	0.017	< 0.04	3.3	53	301	6.1	27-JUN-95:0310
202276	2	8.0	0.6	7.75	27	343	197	52	1154	159.0	0.018	0.06	3.3	99	327	8.2	09-AUG-95:0216
202277	2	8.3	1.0	0.12	12	216	198	11	780	120.2	0.043	1.04	19.6	20	246	1.9	27-JUN-95:1202
202279	1	8.5	1.1	1.43	49	144	164	23	711	105.5	0.023	0.04	6.0	21	243	1.2	04-JUL-95:0400
202281	2	8.1	0.7	2.37	13	392	195	49	1091	169.0	0.039	0.24	3.9	77	286	9.2	11-JUL-95:1405
202281	2	7.8	0.6	2.33	9	390	195	49	1102	170.0	0.010	< 0.04	2.8	88	293	11.1	17-AUG-95:0403
202282	1	8.1	1.2	0.30	17	97	91	18	472	65.5	0.034	0.07	6.9	21	180	1.6	11-JUL-95:1405
202282	1	8.0	0.6	0.14	19	87	84	22	548	73.0	0.041	< 0.04	1.6	45	236	11.2	19-AUG-95:1219
202283	1	8.4	0.7	0.73	5	105	80	28	509	68.7	0.021	< 0.04	3.0	32	208	10.7	18-JUL-95:1600

KEY CLASS: 1 Suitable for potable use

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W12

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202283	1	8.0	0.7	1.28	27	104	86	29	550	77.6	0.013	< 0.04	2.1	37	212	12.7	18-AUG-95:1226
202285	1	8.2	0.9	0.04	25	169	108	42	641	90.7	0.013	< 0.04	5.8	29	215	3.1	18-JUL-95:1412
202286	1	8.1	0.8	0.56	4	175	120	25	572	83.8	0.007	< 0.04	3.1	29	176	3.2	20-JUL-95:1402
202287	1	8.3	0.8	1.52	6	185	115	35	657	90.7	0.029	0.05	3.0	40	218	9.4	22-JUL-95:1010
202287	1	7.7	0.8	1.41	7	183	114	33	648	96.7	0.014	< 0.04	2.2	42	213	13.9	20-AUG-95:1120
202288	3	7.8	0.4	0.08	54	1054	441	134	2301	335.0	0.010	0.96	14.6	127	389	10.5	26-JUL-95:0110
202290	3	7.9	1.3	0.15	266	2229	1154	175	4854	714.0	0.020	0.28	22.3	257	614	14.1	07-MAY-95:1310
202291	3	8.5	0.8	0.10	72	1042	634	73	2454	408.0	0.041	0.23	58.0	87	400	5.9	02-JUL-95:1150
202292	3	7.9	0.5	31.29	55	809	425	96	2388	375.0	0.035	0.06	7.5	182	554	18.3	08-JUL-95:0200
202293	2	8.1	0.8	18.49	31	215	159	39	1135	151.0	0.011	0.05	4.0	112	404	14.7	11-JUL-95:1545
202294	3	8.1	1.2	< 0.04	87	640	300	79	1535	281.0	0.029	0.07	14.6	103	253	9.3	08-JUL-95:1211
202295	2	8.3	3.0	0.05	18	11	61	4	286	33.6	0.011	< 0.04	3.3	10	144	2.2	24-JUL-95:0401
202296	1	7.8	0.5	0.30	8	22	22	4	157	23.8	0.047	< 0.04	6.5	12	66	10.2	22-JUL-95:1020
202297	1	8.2	0.3	0.40	5	30	33	5	204	30.0	0.017	< 0.04	2.7	16	90	15.6	28-JUL-95:1245
202301	3	7.6	0.2	0.06	121	1199	534	101	2449	438.0	0.007	< 0.04	10.6	186	243	17.9	08-AUG-95:0218
202302	3	7.6	0.3	0.18	63	822	330	76	1806	294.0	0.040	0.05	12.4	161	279	13.9	05-AUG-95:1200
202303	2	7.9	1.1	0.71	22	283	185	63	1267	182.0	0.018	0.06	11.8	81	506	12.6	21-JUL-95:1110
202305	1	6.6	0.2	< 0.04	10	80	56	10	288	47.6	0.035	0.21	3.1	21	88	15.6	24-JUL-95:0950

KEY CLASS: 1  Suitable for potable use

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# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

Page 16

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W12

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202305	1	7.5	0.4	< 0.04	7	59	48	8	259	40.3	0.133	< 0.04	2.4	18	94	20.4	16-AUG-95:1116
202309	1	8.2	0.9	0.55	6	141	91	31	548	82.2	0.036	0.04	5.7	27	198	5.0	19-JUL-95:1505
202314	1	8.4	0.4	0.20	10	55	52	12	406	56.3	0.017	0.04	7.5	42	185	7.9	15-AUG-95:0219
202315	1	8.3	0.4	0.08	10	54	51	11	402	55.6	0.060	0.06	7.6	42	184	7.8	15-AUG-95:1015
202316	1	8.1	0.5	0.04	17	17	25	5	218	29.1	0.044	< 0.04	3.4	28	101	12.3	01-AUG-95:1258
202317	1	7.9	0.4	< 0.04	25	35	34	13	328	43.9	0.034	< 0.04	7.7	33	146	3.9	21-JUL-95:1018
202319	1	7.9	0.4	1.42	14	29	35	9	256	33.9	0.028	< 0.04	6.1	17	115	17.4	02-AUG-95:0130
202324	1	8.1	0.3	1.86	7	20	23	4	196	26.5	0.011	< 0.04	3.1	25	86	11.3	02-AUG-95:1230
202325	1	8.3	0.3	1.44	4	97	86	23	493	72.4	0.014	< 0.04	2.2	31	199	14.4	25-JUL-95:1015
202327	1	8.1	0.6	0.09	13	105	80	20	449	63.3	0.120	0.07	4.8	25	163	8.2	07-AUG-95:0408
202329	1	8.1	0.9	0.33	7	96	55	18	477	70.4	0.015	< 0.04	3.2	58	195	10.1	25-JUL-95:1115
202330	1	8.1	0.3	< 0.04	12	44	34	21	345	49.4	0.020	0.05	4.6	33	162	5.4	24-JUL-95:1055
202331	1	7.8	0.4	< 0.04	13	38	38	9	388	51.9	0.023	< 0.04	4.1	52	192	5.9	01-AUG-95:1220
202331	1	8.4	0.3	1.13	11	46	37	9	406	56.2	0.144	0.16	3.0	62	191	11.5	01-AUG-95:0401
202334	2	7.7	0.5	0.83	14	298	168	3	592	105.3	0.018	< 0.04	3.5	46	46	5.3	09-AUG-95:1220
202335	2	8.3	0.5	4.32	23	250	177	7	694	107.5	0.024	< 0.04	3.2	45	138	13.7	10-AUG-95:1016
202336	2	8.4	0.7	< 0.04	52	382	195	2	741	148.0	0.016	< 0.04	2.4	77	25	7.7	11-AUG-95:1150
202344	2	8.1	1.0	< 0.04	22	335	222	6	720	124.1	0.042	< 0.04	7.6	26	82	1.4	07-AUG-95:1220

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W12

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202345	2	8.1	0.4	0.15	71	541	248	6	1015	181.0	0.008	< 0.04	2.2	108	32	3.0	06-AUG-95:0314
202345	2	9.6	0.1	< 0.04	73	554	253	< 1	1032	186.0	0.006	< 0.04	1.6	128	18	8.7	19-SEP-95:1245
202346	2	8.3	0.3	0.09	50	480	335	19	1181	205.0	0.005	0.06	4.3	37	210	18.7	05-SEP-95:0405
202348	3	7.3	0.2	< 0.04	336	929	435	11	2015	314.0	0.012	< 0.04	10.4	231	50	4.7	05-AUG-95:0322
202354	2	7.4	0.3	0.06	99	199	184	36	1056	121.5	0.058	< 0.04	2.2	76	377	16.8	06-AUG-95:0417
202355	2	7.0	0.8	0.08	33	589	312	13	1052	191.0	0.022	< 0.04	2.2	60	34	7.5	09-AUG-95:0918
202356	2	8.0	0.3	0.05	50	479	215	2	876	181.0	0.013	< 0.04	1.5	97	26	9.1	08-AUG-95:0915
202356	2	7.6	0.2	0.09	51	458	228	2	853	156.0	0.010	0.05	1.9	87	19	12.6	17-SEP-95:1240
202357	2	7.9	0.2	< 0.04	54	374	199	6	732	121.5	0.018	< 0.04	2.0	54	35	6.1	07-AUG-95:0317
202357	2	8.2	0.3	11.63	34	228	227	43	1153	167.0	0.032	0.04	2.6	54	421	16.2	07-AUG-95:1200
202360	2	8.0	0.4	2.69	48	299	197	10	781	143.0	0.029	0.10	1.5	62	123	17.0	14-AUG-95:0220
202362	1	8.0	0.4	< 0.04	21	57	81	30	627	78.3	0.019	< 0.04	1.6	50	317	13.8	15-AUG-95:0415
202363	1	8.1	0.5	1.96	29	92	103	38	741	87.3	0.016	< 0.04	1.0	50	343	9.6	16-AUG-95:1110
202365	2	8.2	0.4	0.43	30	247	127	7	526	90.6	0.017	0.07	2.8	50	49	12.8	12-AUG-95:1207
202375	2	8.3	0.6	4.65	55	298	319	13	1208	162.0	0.017	< 0.04	1.4	47	372	15.5	07-AUG-95:0401
202377	2	8.0	0.3	9.29	36	426	376	42	1515	208.0	0.013	< 0.04	2.6	51	442	22.4	16-SEP-95:0400
202378	1	8.1	0.7	9.37	28	105	101	26	625	77.9	0.020	< 0.04	1.4	41	229	15.7	14-AUG-95:0150
202378	3	7.2	0.3	0.04	73	963	411	5	1670	325.0	0.009	< 0.04	< 0.3	188	24	5.7	14-AUG-95:0235

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W12

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202415	2	8.4	0.4	0.09	27	282	197	16	850	145.0	0.039	< 0.04	1.6	52	224	28.6	19-AUG-95:1201
202470	1	8.2	0.4	3.83	14	154	118	17	540	76.3	0.030	< 0.04	8.4	21	157	17.2	02-SEP-95:1219
202471	3	8.0	0.7	0.07	61	396	421	42	1625	243.0	0.042	0.04	8.8	39	538	8.5	02-SEP-95:0110
202474	2	8.3	0.5	0.40	25	309	297	24	1089	172.0	0.018	0.05	5.2	23	330	10.3	03-SEP-95:0140
202477	2	8.0	0.4	2.78	27	205	164	23	696	113.7	0.023	0.05	2.5	29	192	13.4	04-SEP-95:0200
202482	2	7.8	0.5	0.04	95	402	283	9	868	160.0	0.044	< 0.04	2.6	27	39	8.1	04-SEP-95:0212
202490	2	8.2	1.0	0.33	67	443	391	51	1587	242.0	< 0.005	< 0.04	3.0	39	484	11.6	07-SEP-95:1247
202492	3	7.9	0.2	2.66	127	1844	764	207	3513	610.0	0.011	< 0.04	9.8	172	309	8.0	12-SEP-95:1216
202493	3	7.8	2.6	0.53	911	2114	1552	69	4916	786.0	0.011	0.04	20.8	109	109	2.8	13-SEP-95:1119
202496	2	8.4	0.7	0.06	20	201	197	21	817	116.8	0.022	< 0.04	9.6	17	289	7.4	14-SEP-95:0250
202499	3	8.0	0.2	36.15	63	592	334	97	1819	287.0	0.024	0.06	15.7	99	376	16.5	14-SEP-95:0950
202501	2	8.1	0.3	< 0.04	48	438	335	19	1128	201.0	0.091	0.07	6.7	32	204	15.9	13-SEP-95:1113
MABUKA	3	8.0	0.6	< 0.04	71	1057	775	102	3038	418.0	0.017	0.11	7.5	76	778	12.1	25-JUN-95:0800

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W21

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202237	3	8.0	0.2	0.06	90	2014	958	247	4066	678.0	< 0.005	3.51	29.8	70	535	8.5	14-SEP-95:1200
202261	2	8.0	0.6	1.00	16	240	161	37	919	128.9	0.006	< 0.04	2.9	78	312	13.1	15-AUG-95:0308
202265	2	8.2	1.0	0.19	34	494	348	65	1577	211.0	0.012	0.05	3.9	59	468	11.2	07-JUL-95:0240
202265	2	8.5	1.0	1.24	32	507	353	67	1678	247.0	0.015	0.05	3.9	82	514	12.2	07-JUL-95:0217
202266	2	8.4	1.0	1.47	41	455	362	54	1558	226.0	0.092	0.13	9.8	39	484	10.3	06-JUL-95:1250
202266	2	8.0	1.0	1.36	35	459	366	56	1580	216.0	0.021	0.09	3.3	50	495	14.3	11-AUG-95:1118
202269	2	7.9	0.6	1.91	30	563	360	68	1806	258.0	0.015	< 0.04	5.1	113	539	13.9	12-AUG-95:1200
202272	2	8.3	0.9	1.63	25	306	232	26	975	152.0	0.017	0.06	21.3	29	269	2.0	09-JUL-95:0105
202272	2	7.7	1.0	1.35	22	340	211	55	1247	182.0	0.016	0.13	4.8	87	427	13.8	13-AUG-95:0313
202312	1	7.6	0.2	< 0.04	13	66	47	8	252	41.7	0.022	1.63	8.7	11	79	7.4	25-JUL-95:1412
202313	1	8.2	0.7	3.99	7	53	47	13	298	46.0	0.012	< 0.04	5.1	18	112	2.1	21-JUL-95:1111
202439	2	8.2	0.7	0.16	25	320	337	18	1283	166.0	0.010	< 0.04	6.0	29	449	24.0	09-SEP-95:0319

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



## WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

### INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W23

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F	NO3	SO4	Cl	Na	Mg	TDS	EC	P	NH4	K	Ca	TAL	Si	SAMPLE DATE
			mg/l	mg/l as N	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mS/m	mg/l as P	mg/l as N	mg/l	mg/l as CaCO3	
202225	3	8.1	0.8	< 0.04	177	2384	1440	180	5069	788.0	0.021	0.95	29.8	64	650	3.9	24-JUN-95:0900
202225	3	7.7	0.8	0.08	208	2119	1370	177	5167	755.0	0.018	0.64	26.2	123	937	7.4	24-JUN-95:0110
202238	3	8.3	4.1	< 0.04	34	1496	971	20	2831	464.0	0.018	0.97	6.3	34	217	9.2	23-JUN-95:1400
202320	2	7.7	< 0.1	0.07	90	532	333	1	1033	193.0	0.005	< 0.04	1.9	46	22	12.3	26-SEP-95:0230
202338	2	7.4	0.2	0.06	99	554	307	15	1314	209.0	0.015	< 0.04	2.5	124	173	8.9	09-SEP-95:1100
202339	3	7.7	0.6	< 0.04	787	7887	3659	227	13741	2030.0	0.010	2.59	52.9	1061	54	2.1	05-SEP-95:0110
202340	3	7.3	0.4	0.04	215	1725	665	58	3160	578.0	0.010	0.65	0.6	429	55	3.6	22-AUG-95:1145
202341	3	8.3	0.4	0.09	48	656	382	71	1604	273.0	0.017	< 0.04	8.6	66	305	14.1	23-AUG-95:1140
202342	3	7.7	0.4	< 0.04	119	1104	489	68	2091	403.0	0.011	< 0.04	12.6	194	84	2.9	22-AUG-95:1200
202343	3	7.8	0.4	27.01	21	131	97	54	880	111.0	0.036	< 0.04	1.2	74	313	15.5	01-SEP-95:0220
202349	2	7.8	1.0	0.12	80	405	222	12	829	157.0	0.005	< 0.04	2.7	46	50	8.4	15-AUG-95:0319
202350	2	8.3	0.6	9.38	39	273	312	46	1430	185.0	0.016	0.08	2.2	41	554	19.1	05-AUG-95:0344
202352	2	8.2	0.4	6.82	40	212	196	54	1194	157.0	0.025	0.05	1.7	57	493	18.4	17-AUG-95:0330
202368	2	8.0	0.7	0.04	38	531	273	14	981	202.0	0.027	< 0.04	2.2	65	47	3.0	17-AUG-95:0217
202369	3	7.8	0.5	0.33	40	651	320	4	1162	210.0	0.030	< 0.04	2.4	108	28	6.2	23-AUG-95:0430
202370	3	8.0	0.5	0.17	105	761	352	37	1510	279.0	0.010	< 0.04	< 0.3	128	102	18.5	19-AUG-95:1119
202371	3	8.0	0.3	23.14	36	179	155	46	1062	152.0	0.019	0.07	1.3	88	372	21.9	19-AUG-95:0212
202372	3	7.4	0.3	0.08	58	743	377	6	1355	267.0	0.018	< 0.04	< 0.3	129	34	3.6	20-AUG-95:1155

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W23

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202373	3	7.8	0.3	0.08	142	1180	574	10	2198	413.0	0.011	0.07	0.5	241	41	11.1	19-AUG-95:1212
202374	2	7.8	0.5	0.12	23	178	239	20	1084	150.0	0.038	3.45	1.9	41	472	18.6	18-AUG-95:0410
202376	2	8.2	0.4	3.62	20	270	199	27	876	140.0	0.039	< 0.04	3.2	39	247	10.1	01-SEP-95:0245
202380	2	8.3	0.2	< 0.04	80	386	377	22	1419	221.0	< 0.005	< 0.04	2.5	44	415	34.9	12-SEP-95:1217
202381	3	8.0	0.3	< 0.04	106	603	304	15	1188	236.0	0.040	0.04	2.3	104	44	2.2	05-SEP-95:0312
202382	2	8.2	0.5	5.68	30	270	270	18	1000	146.0	0.027	0.06	2.4	35	285	14.0	21-AUG-95:0340
202383	2	8.1	0.5	3.78	49	318	241	25	1020	157.0	0.015	0.16	2.4	64	248	21.2	29-AUG-95:0110
202384	2	8.1	0.3	0.05	51	524	341	14	1200	201.0	0.044	< 0.04	1.8	68	162	22.1	04-SEP-95:1200
202385	3	7.9	0.9	0.20	298	5242	3150	334	10095	1420.0	0.019	0.42	11.4	148	746	12.8	23-AUG-95:0120
202386	3	7.6	0.9	0.04	512	4398	2372	122	8191	1310.0	0.033	0.91	59.9	518	168	2.3	30-AUG-95:1220
202387	3	8.2	0.7	24.49	95	712	547	78	2337	317.0	0.013	0.05	11.3	84	575	10.5	24-AUG-95:0244
202389	2	7.6	0.5	0.25	81	543	245	14	1041	233.0	0.030	0.08	2.6	116	31	5.2	22-AUG-95:1210
202392	2	7.6	0.4	0.17	97	470	250	14	962	186.0	0.013	< 0.04	1.9	87	33	2.4	02-SEP-95:0409
202393	2	8.3	0.4	< 0.04	27	278	236	4	800	136.0	0.019	< 0.04	1.3	36	178	32.4	22-AUG-95:0222
202394	2	7.1	0.3	0.23	46	466	224	10	867	174.0	0.012	< 0.04	3.1	72	36	6.8	23-AUG-95:1210
202396	2	8.0	0.6	0.30	49	354	231	15	839	145.0	0.038	0.17	1.9	49	113	4.3	06-SEP-95:0346
202396	1	7.7	0.3	0.09	44	142	127	31	783	109.9	0.015	2.57	6.9	52	308	23.3	06-SEP-95:0340
202397	2	7.2	0.2	0.22	64	574	316	2	1067	212.0	0.011	< 0.04	1.7	74	28	9.6	24-AUG-95:1020

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W23

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202398	2	8.3	0.4	2.19	43	289	265	29	1044	170.0	0.022	< 0.04	3.9	39	301	9.8	01-SEP-95:0401
202399	2	8.3	0.3	< 0.04	36	341	246	8	799	137.0	0.018	< 0.04	2.2	32	109	17.0	02-SEP-95:0402
202400	2	8.1	0.5	< 0.04	24	225	249	5	893	128.9	0.022	< 0.04	4.2	24	295	9.0	16-AUG-95:0405
202401	2	8.1	0.6	1.06	23	212	223	20	934	140.0	0.020	< 0.04	1.3	27	347	15.4	17-AUG-95:0130
202404	2	7.8	0.3	0.07	101	570	302	< 1	1106	216.0	0.022	< 0.04	1.9	99	25	9.0	23-AUG-95:0223
202405	2	8.4	0.6	15.12	74	194	193	9	779	124.4	0.023	< 0.04	2.4	47	158	8.9	18-AUG-95:0418
202406	3	8.5	0.9	0.34	50	1036	821	52	2734	429.0	0.015	0.24	11.9	30	599	14.8	16-AUG-95:0418
202408	2	7.7	3.3	0.26	5	575	362	7	1079	191.0	0.018	0.21	4.7	28	76	1.1	22-AUG-95:1222
202411	3	7.7	0.6	27.79	48	230	176	24	943	148.0	0.032	0.06	2.3	79	213	12.9	01-SEP-95:0301
202412	1	8.4	0.5	0.05	38	146	97	2	365	64.3	0.038	< 0.04	1.9	22	47	5.4	30-AUG-95:0130
202413	3	7.4	1.2	0.06	79	730	308	2	1342	235.0	0.015	< 0.04	2.4	181	31	3.7	21-AUG-95:1201
202414	1	7.6	0.4	0.53	25	89	108	20	577	76.4	< 0.005	< 0.04	2.4	32	244	19.5	22-SEP-95:0322
202416	3	7.6	0.6	< 0.04	136	1194	602	35	2238	372.0	0.034	< 0.04	14.1	178	64	6.2	18-AUG-95:1200
202417	3	8.1	1.0	30.16	89	1059	647	110	2660	425.0	0.019	0.24	9.5	87	429	10.7	21-AUG-95:1121
202418	3	8.4	1.2	0.12	226	1698	1157	64	3640	549.0	0.019	1.32	29.0	53	335	2.2	17-AUG-95:1030
202421	3	8.3	1.2	0.91	56	774	628	44	2226	347.0	0.044	0.12	14.5	40	544	3.2	18-AUG-95:1250
202423	3	7.3	0.3	0.09	97	737	243	6	1374	264.0	0.073	0.07	< 0.3	236	44	7.6	21-AUG-95:0421
202425	2	7.7	0.4	0.22	66	567	244	14	1045	207.0	0.011	< 0.04	2.7	117	27	5.1	21-AUG-95:1219

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W23

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
202426	2	9.2	0.4	< 0.04	61	263	168	2	561	96.9	0.053	< 0.04	2.5	31	28	5.8	04-SEP-95:1110
202427	3	7.7	0.4	0.08	352	2681	1532	154	5156	799.0	0.052	0.11	25.0	159	208	1.3	31-AUG-95:0131
202430	3	8.1	1.1	0.07	101	1512	952	63	3275	546.0	0.023	0.34	19.1	91	439	5.9	05-SEP-95:0316
202432	3	8.1	0.7	0.09	86	747	594	64	2256	343.0	0.006	< 0.04	16.6	34	586	12.4	06-SEP-95:0316
202447	2	8.3	0.6	2.31	54	302	209	31	875	137.0	0.021	< 0.04	2.7	47	180	10.7	24-AUG-95:0324
202448	2	8.3	0.6	0.89	75	254	232	18	872	122.0	0.034	< 0.04	2.3	35	206	6.5	30-AUG-95:1110
202449	2	8.3	0.6	5.44	38	209	268	12	951	121.4	0.054	0.07	2.1	18	311	16.5	31-AUG-95:0230
202452	3	8.0	1.7	< 0.04	45	601	514	13	1667	266.0	0.012	< 0.04	13.9	21	374	2.2	11-SEP-95:0130
202455	3	7.2	0.3	0.33	56	2128	1142	68	3612	602.0	0.017	< 0.04	15.5	85	94	2.8	07-SEP-95:0217
202456	3	6.7	0.5	0.11	89	2959	1569	75	4943	805.0	0.008	0.34	12.3	196	34	1.3	07-SEP-95:0112
202461	3	8.2	6.4	0.11	30	1094	760	5	2195	358.0	0.019	0.86	21.2	12	218	1.0	08-SEP-95:0409
202462	2	8.3	0.6	3.57	61	563	367	47	1475	251.0	0.041	0.07	2.5	81	276	24.6	29-AUG-95:1210
202462	2	8.0	0.4	0.07	30	224	195	3	698	99.8	0.020	< 0.04	2.5	25	178	14.6	29-AUG-95:0429
202463	2	8.4	0.6	9.64	39	193	243	24	994	124.0	0.022	< 0.04	0.6	30	345	21.0	31-AUG-95:0250
202466	3	8.2	0.4	29.37	98	238	257	38	1219	166.0	0.034	0.08	2.8	63	321	13.4	04-SEP-95:0217
202468	3	7.3	0.2	< 0.04	96	632	278	7	1228	218.0	0.025	0.05	3.8	163	40	2.3	03-SEP-95:0108
202469	1	7.8	0.3	2.13	33	136	151	29	775	98.2	0.008	< 0.04	2.8	36	309	16.4	06-SEP-95:0400

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
102318A	2	5.0	0.2	< 0.04	10	34	47	21	431	67.5	0.010	< 0.04	12.6	36	222	14.4	30-AUG-95:1005
102318B	1	5.5	0.2	< 0.04	35	30	54	23	575	82.2	0.036	0.19	13.1	53	301	17.1	30-AUG-95:1005
B102273	2	7.5	0.7	< 0.04	15	367	188	2	675	128.0	0.015	< 0.04	1.9	60	33	2.0	16-MAY-95:0800
B102273	2	8.0	0.4	0.36	19	284	176	2	624	108.6	0.009	< 0.04	1.6	48	75	15.4	21-JUN-95:1837
B102274	2	7.7	0.5	< 0.04	30	505	258	4	908	178.0	0.018	< 0.04	3.5	68	31	3.5	16-MAY-95:0810
B102274	2	8.0	0.6	< 0.04	31	486	253	< 1	878	175.0	0.014	< 0.04	1.5	70	30	9.9	27-JUN-95:1124
B102276	2	7.9	0.6	1.29	73	243	200	31	934	143.0	0.021	< 0.04	6.9	45	269	8.3	19-MAY-95:0750
B102277	1	8.2	0.6	< 0.04	22	117	104	21	610	84.8	0.024	< 0.04	4.8	43	244	5.8	20-MAY-95:1028
B102277	1	7.8	0.8	0.05	29	108	104	21	637	84.0	0.016	< 0.04	3.9	54	260	11.1	20-JUN-95:1306
B102279	2	8.3	0.7	1.02	21	226	200	34	944	138.0	0.014	< 0.04	5.4	40	338	6.5	22-MAY-95:0725
B102279	1	7.7	0.7	0.22	13	131	124	23	742	96.8	0.012	< 0.04	3.1	61	316	12.4	14-JUN-95:1325
B102280	1	8.2	0.9	0.06	13	140	125	21	638	91.1	0.011	< 0.04	6.1	34	244	3.5	23-MAY-95:1620
B102280	2	7.7	0.8	1.10	22	230	192	34	983	139.0	0.027	< 0.04	3.8	54	362	11.1	15-JUN-95:1423
B102281	2	7.5	0.8	1.12	40	530	313	59	1429	224.0	0.013	0.04	4.1	79	327	14.9	19-JUN-95:1135
B102281	2	8.5	1.1	1.92	39	447	307	57	1267	232.0	0.029	0.06	4.5	43	295	11.9	16-JUN-95:1810
B102283	2	8.5	1.6	< 0.04	23	233	260	8	909	134.0	0.022	< 0.04	5.8	13	298	17.9	25-MAY-95:1120
B102283	2	8.3	1.5	0.06	18	218	247	8	875	123.4	0.013	< 0.04	3.3	15	299	23.0	19-JUN-95:1625
B102284	1	7.5	1.1	0.56	8	183	142	16	606	93.2	0.019	< 0.04	9.0	20	184	4.5	25-MAY-95:1230

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
B102284	2	7.0	0.6	0.17	4	209	125	24	640	91.4	0.037	< 0.04	6.6	42	187	21.9	21-JUN-95:1820
B102286	3	8.1	0.8	0.05	16	915	453	74	1717	318.0	0.015	< 0.04	15.9	61	148	20.8	26-MAY-95:0822
B102286	3	7.6	0.5	< 0.04	48	893	455	69	1718	326.0	0.070	< 0.04	15.7	64	142	31.4	19-AUG-95:0300
B102288	3	7.9	1.5	46.02	14	539	316	32	1343	237.0	0.009	0.87	5.0	93	112	3.6	29-MAY-95:1125
B102295	3	8.0	5.4	< 0.04	15	296	341	6	1054	180.0	0.036	< 0.04	3.1	11	310	18.2	07-JUN-95:1730
B102296	2	8.3	3.0	< 0.04	7	203	240	< 1	758	115.5	0.022	< 0.04	2.7	6	243	28.4	13-JUL-95:2230
B102298	3	8.0	3.0	0.31	113	3941	2058	123	6862	1168.0	0.019	0.14	2.1	249	306	8.7	09-JUN-95:1810
B102298	3	7.4	3.1	0.26	90	4057	2163	273	7518	1279.0	0.019	0.10	< 0.3	258	553	35.0	13-JUL-95:1430
B102299	3	8.0	2.0	0.08	347	2514	1746	190	5924	925.0	0.026	0.07	< 0.3	54	878	20.9	10-JUN-95:1715
B102299	3	8.0	1.7	0.24	243	2312	1713	178	6037	863.0	0.012	0.08	10.3	76	1232	26.6	18-JUL-95:1800
B102300	3	8.0	0.8	3.64	179	943	241	230	2227	361.0	0.027	0.08	< 0.3	153	380	25.3	12-JUN-95:1550
B102300	3	7.9	0.9	3.99	159	869	265	220	2427	369.0	0.014	0.08	< 0.3	185	583	30.1	20-JUL-95:1800
B102301	2	8.0	0.5	0.04	119	296	192	66	1119	186.0	0.046	0.07	1.6	80	298	14.3	13-JUN-95:1020
B102301	2	7.6	0.6	0.11	117	325	194	67	1161	186.0	0.011	0.06	1.8	85	304	18.0	18-JUL-95:1800
B102302	3	8.2	0.6	1.94	211	769	333	125	1947	303.0	0.022	0.09	< 0.3	152	285	27.1	15-JUN-95:1426
B102302	3	7.9	0.5	1.96	189	827	368	127	2053	345.0	0.027	0.10	< 0.3	154	310	26.7	24-JUL-95:1800
B102304	2	8.0	0.5	0.06	96	318	286	63	1399	189.0	0.028	0.04	0.8	50	480	29.1	21-JUN-95:1021
B102304	2	7.9	0.6	0.06	102	278	280	66	1358	202.0	0.018	0.05	1.0	53	474	34.4	23-JUL-95:1800

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
B102309	2	7.4	0.4	0.41	42	218	157	26	946	142.0	0.014	0.05	8.3	95	326	20.2	16-AUG-95:0200
BC1-1	3	8.4	0.2	37.73	11	270	230	39	1077	150.0	0.026	0.05	2.4	43	257	26.6	05-SEP-95:0150
BC1-2	2	8.2	0.2	12.14 <	3	246	184	33	868	119.5	0.028	0.05	3.0	42	249	23.6	05-SEP-95:0400
BC1-3	2	8.3	0.2	6.18	5	323	232	29	969	144.0	0.058	0.06	6.4	40	251	14.8	11-SEP-95:0420
BC10-46	1	8.0	0.6	0.63	24	92	121	33	688	92.6	0.018 <	0.04	4.9	34	308	17.2	30-AUG-95:0320
BC10-47	3	8.4	0.6	0.93	53	732	503	36	1825	306.0	0.012	0.38	12.6	45	360	7.0	31-AUG-95:0450
BC3-14	2	7.4	0.4	5.35	28	474	266	12	935	176.0	0.007 <	0.04	3.1	52	62	4.0	28-SEP-95:0430
BC4-16	3	7.7	0.2	25.96	5	273	199	54	1067	147.0	0.006	0.05	2.5	50	302	18.4	21-SEP-95:0400
BC4-18	2	8.0	0.3	5.14	17	304	265	21	965	155.0	0.005 <	0.04	3.7	26	250	9.3	17-SEP-95:0510
BC4-19	2	8.3	0.2	7.37	21	227	182	48	987	148.0	0.042	0.07	2.6	53	345	20.2	11-SEP-95:0400
BC5-22	2	8.3	0.2	6.38	15	289	218	48	1059	166.0	0.023	0.05	2.5	52	332	26.6	16-SEP-95:0550
BC5-24	2	8.4	0.3	0.05	22	465	365	38	1341	218.0	0.052	0.07	3.8	30	342	13.8	18-SEP-95:1230
BC5-25	2	7.4	0.2	16.26	16	168	110	52	779	108.4	0.009 <	0.04	2.9	46	256	26.9	30-SEP-95:0500
BC6-26	1	7.3	0.2	7.60	7	192	118	25	590	89.2 <	0.005 <	0.04	2.1	27	152	18.9	29-SEP-95:0150
BC6-30	2	8.4	0.2	9.12	8	254	198	31	876	121.0	0.022	0.04	2.9	35	251	24.6	04-SEP-95:0330
BC7-34	2	8.6	0.8 <	0.04	11	158	210	13	785	109.4	0.019	0.10	9.0	16	301	19.7	31-AUG-95:0300
BC8-36	2	8.4	0.3	2.66	12	240	203	37	959	124.7	0.024	0.15	2.8	39	338	14.7	08-SEP-95:0430
BC8-37	3	7.8	0.6 <	0.04	365	1368	666	10	2765	489.0 <	0.005	0.88	8.2	311	29	5.1	04-SEP-95:0430

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F	NO3	SO4	Cl	Na	Mg	TDS	EC	P	NH4	K	Ca	TAL	Si	SAMPLE DATE
			mg/l	mg/l as N	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mS/m	mg/l as P	mg/l as N	mg/l	mg/l	mg/l as CaCO3	
BC8-38	1	8.5	0.2	6.77	15	185	188	23	821	103.6	0.031	0.17	10.0	23	284	15.3	31-AUG-95:0500
BC8-40	2	8.5	0.5 <	0.04	17	233	240	34	977	145.0	0.018 <	0.04	5.8	22	348	18.0	30-AUG-95:0250
BC9-42	3	7.8	0.8 <	0.04	135	976	533	106	2740	423.0	0.012	0.38	14.1	211	627	16.4	24-AUG-95:0400
BC9-43	3	8.5	0.8	0.07	31	417	429	50	1707	242.0	0.126	0.06	2.6	45	599	14.5	26-AUG-95:0330
BC9-44	3	8.0	1.0	0.08	134	1923	1042	169	4105	676.0	0.011	0.36	14.7	164	538	12.1	29-AUG-95:0430
D17-17	1	7.1	0.5	0.20	10	80	52	5	198	32.9	0.036 <	0.04	3.5	4	34	19.4	31-JUL-95:1000
ETHAN	3	7.0	0.8	25.01	48	136	103	15	460	75.7	0.091 <	0.04	20.9	7	16	11.3	28-JUL-95:0900
MANGI	1	7.7	1.0 <	0.04	8	135	103	19	610	89.2	0.017 <	0.04	10.0	44	237	27.3	29-JUN-95:1025

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W43

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
B112	1	7.7	0.7	0.47	4	71	105	6	451	57.3	0.011 <	0.04	3.6	20	195	19.2	24-JUL-95:1500
B180	3	8.0	3.9	2.07	50	2172	1128	129	4148	708.0	0.015	0.07	22.7	212	346	27.4	12-JUN-95:1515
B183	3	8.3	4.9	0.05	17	481	345	35	1282	218.0	0.020	0.05	6.8	57	275	18.5	13-JUN-95:1200
B183	3	7.4	4.8	0.08	4	539	337	32	1335	231.0	0.010 <	0.04	9.7	62	283	19.8	13-JUN-95:1400
B199	1	8.0	0.6 <	0.04	41	146	135	12	540	86.7	0.072 <	0.04	13.7	14	146	27.0	24-AUG-95:0300
B254	2	8.2	0.5	0.05	16	221	166	17	686	103.7	0.051	3.57	4.6	21	194	7.3	21-JUL-95:1430
B254P	1	8.3	1.1 <	0.04	8	192	110	29	673	92.4	0.020	8.66	6.0	44	222	16.3	08-AUG-95:1000
B255	3	7.9	4.8 <	0.04	116	1260	806	17	2415	438.0	0.014	0.17	10.8	82	97	6.5	22-JUL-95:1300
B255A	3	7.7	4.1 <	0.04	121	1300	810	19	2466	437.0	0.011	0.14	10.6	83	96	6.4	22-JUL-95:1530
B258A	3	8.3	4.3 <	0.04	51	335	338	8	1048	178.0	0.010 <	0.04	2.9	17	239	16.4	27-JUL-95:1400
B258B	2	8.0	3.6 <	0.04	39	454	359	22	1222	211.0	0.014 <	0.04	4.2	36	249	9.9	27-JUL-95:1700
B266	1	8.4	1.1 <	0.04	10	21	55	11	420	52.6	0.046 <	0.04	5.4	40	226	18.6	23-AUG-95:0500
B2P	3	8.1	1.2	0.14	68	587	460	4	1393	243.0	0.015	0.08	3.7	19	204	6.8	05-JUL-95:1200
NO 1	3	7.4	1.2	26.62	46	773	206	132	2103	328.0	0.010	0.78	12.4	261	453	26.3	12-JUL-95:1000

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W44

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
B102289	2	8.2	2.4	< 0.04	13	207	192	9	760	113.8	0.011	< 0.04	4.2	25	253	10.0	30-JUN-95:1400
B102290	3	8.0	4.4	0.06	27	317	247	8	822	148.0	0.017	< 0.04	6.5	21	157	4.9	30-MAY-95:1455
B102290	2	8.1	1.2	0.05	22	297	238	12	864	161.0	0.021	< 0.04	2.7	45	201	19.3	04-JUL-95:1325
B102291	3	7.0	4.1	< 0.04	26	356	261	4	785	149.0	0.015	< 0.04	5.8	19	89	4.6	30-MAY-95:1625
B102291	2	8.1	3.8	0.41	19	344	240	2	729	142.0	0.018	< 0.04	2.1	15	83	12.1	06-JUL-95:1530
B157	2	8.8	2.8	< 0.04	8	41	158	2	590	72.8	0.032	< 0.04	3.3	5	303	11.7	05-MAY-95:1000
B178	2	8.0	3.9	< 0.04	9	183	288	2	957	116.5	0.044	< 0.04	2.4	8	378	4.9	23-JUN-95:1200
B178	3	8.5	4.9	< 0.04	< 3	175	289	2	962	138.0	0.016	< 0.04	2.1	8	393	9.8	23-JUN-95:0800
B260	2	8.5	1.2	0.07	7	253	242	7	863	115.4	0.022	< 0.04	5.8	14	272	10.1	02-AUG-95:0200
B261	3	8.4	4.1	0.05	55	1337	889	10	2473	389.0	0.017	< 0.04	8.2	33	113	5.0	03-AUG-95:0500
B261P	3	8.0	2.3	0.08	8	519	416	11	1312	222.0	0.008	0.05	3.8	28	264	19.0	10-AUG-95:1000

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W45

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F	NO3	SO4	Cl	Na	Mg	TDS	EC	P	NH4	K	Ca	TAL	Si	SAMPLE DATE
			mg/l	mg/l as N	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mS/m	mg/l as P	mg/l as N	mg/l	mg/l	mg/l as CaCO3	
B102292	2	8.0	2.9	< 0.04	7	51	80	11	451	62.4	0.024	< 0.04	11.1	28	213	7.3	31-MAY-95:1720
B102292	2	7.7	2.8	< 0.04	6	50	73	14	533	69.8	0.012	< 0.04	6.7	48	272	28.4	06-JUL-95:1730
B102293	3	8.0	1.9	0.75	62	2073	864	170	3792	669.0	0.026	0.08	27.4	238	289	11.7	31-MAY-95:1754
B102293	3	7.2	2.0	0.93	63	2025	820	171	3914	674.0	0.019	0.08	23.6	288	424	28.1	12-JUL-95:1200
B102294	1	8.0	1.4	< 0.04	8	140	114	16	585	89.0	0.015	< 0.04	10.9	37	211	14.3	01-JUN-95:1110
B102294	1	7.6	0.7	0.05	11	146	108	16	632	91.9	0.010	< 0.04	11.4	46	239	27.9	14-JUL-95:1400
B102303	2	8.0	2.1	0.06	23	305	220	7	730	144.0	0.029	< 0.04	7.8	27	113	8.7	16-JUN-95:1811
B102311	2	7.6	0.4	3.83	43	284	201	20	896	151.0	0.013	< 0.04	6.3	50	225	25.0	17-AUG-95:1200
B102311	2	7.6	0.3	4.44	42	277	210	20	886	151.0	0.014	< 0.04	7.0	51	212	25.7	28-AUG-95:0100
B102313	3	7.1	0.1	2.47	525	3476	1069	382	6804	1096.0	0.016	0.05	66.4	798	391	22.6	07-SEP-95:0945
B151	3	8.4	6.4	< 0.04	17	505	422	2	1239	226.0	0.021	< 0.04	2.6	19	217	20.3	08-MAY-95:1400
B151	3	8.3	4.6	0.18	13	606	424	7	1330	246.0	0.024	0.06	3.6	33	196	13.5	05-JUL-95:1200
B152	3	7.9	1.0	< 0.04	450	3714	1579	448	6821	1163.0	0.011	0.19	33.9	241	291	9.5	09-MAY-95:1530
B155	3	8.3	12.9	< 0.04	41	219	241	10	863	135.0	0.042	0.91	5.3	21	256	6.4	09-MAY-95:1620
B155	3	8.3	1.8	< 0.04	173	1573	824	176	3519	577.0	0.028	0.51	103.4	94	470	5.1	05-JUL-95:1200
B159	1	6.9	0.3	< 0.04	9	65	61	7	268	44.1	0.034	< 0.04	3.3	10	92	14.1	12-MAY-95:1300
B165	1	8.5	1.1	0.06	20	96	172	3	648	82.9	0.037	< 0.04	3.6	13	278	6.7	19-MAY-95:1740
B178	3	8.3	4.2	0.05	56	118	281	3	971	120.0	0.019	0.15	2.4	10	406	10.9	09-AUG-95:1000

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W45

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
B179	2	8.3	3.1	0.10	13	154	143	20	711	101.0	0.019	< 0.04	8.2	39	270	29.9	10-JUN-95:1330
B179P	2	7.0	1.9	0.05	8	145	142	19	713	88.8	0.022	0.05	4.1	42	288	28.6	28-JUN-95:1200
B189	3	7.9	2.0	1.49	300	2694	1032	308	5145	916.0	0.022	0.07	67.0	400	274	8.5	06-JUL-95:1200
B189	3	7.3	1.4	0.87	269	2748	1009	288	5313	895.0	0.011	0.13	36.8	409	450	18.8	05-JUL-95:0900
B259	1	8.4	1.3	0.41	6	101	87	15	450	66.8	0.014	< 0.04	5.4	28	168	10.4	29-JUL-95:1000
B259P	1	8.0	1.2	1.81	4	104	88	19	535	67.5	0.025	< 0.04	5.6	32	224	22.7	10-AUG-95:0200
B262A	1	8.1	1.1	2.37	20	88	176	6	674	85.9	0.009	< 0.04	2.7	13	292	24.9	06-SEP-95:0300
B264	1	8.3	0.7	4.46	14	67	72	6	337	51.2	0.046	< 0.04	7.5	13	111	7.8	19-AUG-95:0200
B266	1	8.2	0.5	< 0.04	8	34	42	10	421	46.4	0.022	< 0.04	4.5	49	223	20.6	11-SEP-95:0200
B266A	1	8.1	0.6	0.05	6	26	41	10	408	48.9	0.019	< 0.04	4.2	49	222	21.8	11-SEP-95:0200
B80	3	8.5	4.4	0.07	46	941	671	7	1865	288.0	0.052	0.06	7.2	28	131	11.9	10-AUG-95:0230
MC1	1	7.9	0.6	< 0.04	26	33	43	40	663	73.5	0.012	0.05	7.0	66	367	37.4	20-JUL-95:0900

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W57

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
B185	3	8.4	4.3	< 0.04	12	84	115	15	595	76.4	0.023	< 0.04	4.9	36	265	18.0	15-JUN-95:1600
B185P	2	7.0	3.5	< 0.04	8	78	108	14	591	69.1	0.032	< 0.04	4.4	40	274	19.1	03-JUL-95:1200
B186	3	8.0	2.8	0.45	312	2534	1589	21	4741	824.0	0.022	0.06	12.9	196	58	8.1	16-JUN-95:1855
B215P	2	7.0	0.8	< 0.04	23	299	297	19	1110	149.0	0.029	0.12	5.6	37	352	8.8	04-JUL-95:1200
B216P	2	8.0	0.4	0.05	40	492	396	37	1594	252.0	0.019	0.10	5.7	58	464	12.3	04-JUL-95:1200

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : KWAZULU NATAL

DRAINAGE REGION : W70

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
102317A	3	6.9	0.3	0.22	27	624	161	24	1283	238.0	0.007	< 0.04	9.7	242	158	7.6	29-AUG-95:1200
224	3	7.7	< 0.1	7.11	249	875	417	58	2253	362.0	0.012	< 0.04	13.0	265	281	16.1	06-SEP-95:0345
224A	3	7.8	0.1	6.90	218	977	417	62	2331	376.0	0.023	0.07	14.6	263	286	13.8	06-SEP-95:0345
229	1	7.7	0.2	< 0.04	10	148	159	7	608	81.5	0.016	< 0.04	5.3	16	215	24.7	01-SEP-95:0230
229A	1	7.5	0.2	0.11	8	135	155	6	591	82.9	0.008	< 0.04	4.8	16	217	26.2	01-SEP-95:0230
230	2	8.0	0.2	< 0.04	75	557	359	30	1589	259.0	0.010	< 0.04	7.2	125	357	15.5	05-SEP-95:0320
230A	2	7.9	< 0.1	< 0.04	81	550	362	30	1582	250.0	0.008	< 0.04	6.9	121	354	18.4	05-SEP-95:0320
B102317	3	6.5	0.2	0.48	30	618	159	24	1281	238.0	0.009	< 0.04	8.8	246	159	7.6	29-AUG-95:1200
B262	2	8.6	1.8	0.24	72	201	258	5	903	129.5	0.017	< 0.04	4.8	15	281	4.7	11-AUG-95:0440
B262	1	8.3	1.0	2.71	18	98	180	6	690	82.0	0.027	0.07	3.1	13	294	22.8	06-SEP-95:0300

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

**MPUMALANGA**



# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

Page 1

PROVINCE : MPUMALANGA

DRAINAGE REGION : B32

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
EE2	1	6.7	0.2	0.30	< 3	11	4	2	50	4.6	0.018	< 0.04	3.2	< 1	21	9.6	17-MAY-95:1700
T49159	1	7.1	0.1	0.08	4	3	2	< 1	36	5.0	0.014	< 0.04	3.6	1	17	9.2	26-MAY-95:1000
T49162	1	6.8	0.1	0.17	4	3	3	< 1	35	3.7	0.012	< 0.04	3.7	1	15	9.1	21-MAY-95:1000
T49162	1	6.7	0.3	0.15	< 3	5	2	1	41	3.6	0.012	< 0.04	3.5	1	19	9.4	09-JUL-95:1200
T49166	1	6.9	0.2	0.09	< 3	5	2	1	44	4.7	0.019	< 0.04	4.1	2	21	11.7	23-MAY-95:0200
T50178	1	7.2	0.4	0.22	4	< 3	5	4	69	7.9	0.012	< 0.04	3.0	2	39	12.4	23-AUG-95:0200
T50179	1	7.5	0.7	0.17	7	5	10	3	114	13.5	0.028	< 0.04	2.7	10	61	15.3	22-AUG-95:0630
T50180	1	6.5	0.1	0.51	4	< 3	6	< 1	43	5.0	0.010	< 0.04	3.5	2	18	12.5	15-JUL-95:2227
T50187	1	7.9	0.9	2.25	3	4	11	< 1	78	8.8	0.010	< 0.04	3.0	4	35	16.1	07-JUN-95:1245
T50187	1	6.0	0.6	1.89	< 3	3	16	3	92	9.4	0.013	< 0.04	2.8	6	41	15.6	24-JUN-95:2345
T50193	1	6.3	< 0.1	0.06	4	< 3	2	< 1	32	9.5	0.008	< 0.04	3.1	2	14	9.2	16-JUL-95:1245
T50295	1	6.6	0.8	0.09	6	< 3	4	< 1	46	10.7	0.009	< 0.04	3.6	2	21	12.5	18-JUN-95:2345
Z10	1	6.4	0.4	2.64	< 3	5	8	1	68	8.4	0.013	< 0.04	4.2	3	26	12.9	14-AUG-95:0300
Z12	1	7.5	0.3	0.08	4	3	7	5	124	14.8	0.014	< 0.04	5.9	10	72	8.6	21-AUG-95:0815
Z13	1	8.4	0.5	0.68	5	4	15	3	188	22.0	0.016	0.04	3.6	24	107	13.8	17-AUG-95:0300
Z7	1	7.0	0.3	0.48	4	< 3	4	2	58	6.8	0.011	< 0.04	3.0	3	30	12.9	20-AUG-95:0800

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : MPUMALANGA

DRAINAGE REGION : B40

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
F50174	1	6.5	0.4	0.26	3	< 3	6	< 1	58	6.7	0.008	< 0.04	2.9	4	30	11.8	13-JUL-95:1625
F50182	3	7.1	4.0	0.11	4	< 3	12	2	87	11.0	0.008	< 0.04	2.5	6	44	19.6	28-JUN-95:1130
F50186	2	7.4	3.5	0.05	4	< 3	16	3	121	15.4	0.008	< 0.04	2.6	11	66	19.4	02-JUL-95:1510
F50211	1	6.2	0.3	0.16	< 3	< 3	7	< 1	44	5.1	0.023	< 0.04	3.2	< 1	22	13.7	07-JUL-95:2021
F50302	1	6.4	0.2	0.27	4	< 3	4	< 1	39	4.5	0.007	< 0.04	3.4	1	18	12.2	05-JUL-95:1440
Z14	1	7.1	0.4	0.39	3	3	3	< 1	45	4.4	0.012	< 0.04	3.7	2	21	10.9	03-JUN-95:1524
Z15	1	6.9	1.0	0.72	5	3	6	3	54	4.7	0.031	< 0.04	3.6	2	23	10.7	15-MAY-95:1145

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : MPUMALANGA

DRAINAGE REGION : B60

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
H050675	1	7.9	0.2	2.62	4	7	3	28	374	47.1	0.007	< 0.04	< 0.3	49	222	7.4	17-MAY-95:1430
H050675	1	6.6	0.2	5.65	4	13	20	6	166	22.6	0.008	< 0.04	2.4	13	68	25.0	19-MAY-95:1600
H050676	1	7.9	0.2	2.75	3	5	5	30	415	50.5	0.007	< 0.04	< 0.3	53	251	8.5	20-MAY-95:1100
H050677	1	7.7	0.2	3.01	4	6	9	31	430	52.8	0.007	< 0.04	< 0.3	51	258	11.9	14-MAY-95:1700
H050678	1	8.0	0.2	2.58	3	6	4	27	356	44.7	< 0.005	< 0.04	< 0.3	46	212	7.3	11-MAY-95:1735
H050679	1	8.7	0.2	2.93	8	5	5	30	415	49.5	0.006	< 0.04	< 0.3	52	247	8.8	19-MAY-95:0630
H050680	1	7.8	0.4	2.31	4	6	6	26	368	44.3	0.014	< 0.04	< 0.3	47	221	8.4	20-MAY-95:1140
H050681	1	7.9	0.2	2.46	6	6	6	27	366	45.0	0.008	< 0.04	< 0.3	45	217	8.9	15-MAY-95:1520
H050682	1	7.6	0.2	4.22	4	6	7	33	456	53.7	0.012	< 0.04	< 0.3	58	270	11.1	21-MAY-95:1200
H050683	1	7.4	0.2	2.73	4	7	11	34	472	57.3	0.013	< 0.04	0.5	56	285	13.0	17-MAY-95:1910
H050685	1	7.8	0.3	0.60	4	4	3	21	305	35.9	0.010	< 0.04	< 0.3	40	190	8.1	23-MAY-95:0700
H050686	1	7.3	0.2	0.90	3	4	2	4	78	9.0	0.013	< 0.04	2.1	9	40	5.2	20-MAY-95:0600
H050723	1	7.5	0.3	1.32	< 3	4	3	16	221	28.2	0.012	< 0.04	1.4	28	132	7.0	16-JUN-95:1330
H050724	1	7.6	0.2	1.23	4	4	3	14	192	24.2	0.012	< 0.04	1.4	23	113	6.5	15-JUN-95:1409
H050725	1	7.8	0.2	1.55	4	4	3	20	282	34.7	0.011	< 0.04	1.5	36	169	7.6	15-JUN-95:1125

KEY CLASS: 1  Suitable for potable use

2  Suitable for short term potable use

3  Not suitable for potable use

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
**INSTITUTE FOR WATER QUALITY STUDIES**

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : MPUMALANGA

DRAINAGE REGION : W42

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
B258P	3	8.1	4.3	< 0.04	56	536	415	3	1292	221.0	0.006	< 0.04	3.2	30	200	20.4	26-AUG-95:0100

KEY CLASS: 1 Suitable for potable use

2 Suitable for short term potable use

3 Not suitable for potable use

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
**INSTITUTE FOR WATER QUALITY STUDIES**

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

PROVINCE : MPUMALANGA

DRAINAGE REGION : X10

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
G43787	3	8.4	0.2	21.29	14	29	11	73	709	89.2	0.018	0.08	1.2	61	348	19.8	23-AUG-95:1200
G43788	3	8.1	0.2	33.16	45	76	55	77	813	108.5	0.024	0.34	15.3	39	294	8.1	28-AUG-95:1000
G43789	1	8.4	0.4	0.36	16	9	92	30	620	70.0	0.030	0.05	9.9	17	364	10.2	29-AUG-95:0330
G43829	1	7.6	0.7	5.33	23	30	55	17	484	63.4	0.073 <	0.04	36.5	27	222	5.4	14-AUG-95:0200
G43830	1	8.3	1.0	2.99	7	10	29	20	351	43.8	0.014	0.08	2.6	31	195	17.9	16-AUG-95:0400

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PRETORIA

0001

Page 6

PROVINCE : MPUMALANGA

DRAINAGE REGION : X30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
H050722	1	7.0	0.5	0.10	< 3	5	9	1	66	8.6	0.021	0.04	3.3	3	34	14.6	13-JUN-95:1045
H050734	1	7.6	0.3	0.37	< 3	5	11	2	84	11.0	0.028	< 0.04	3.1	6	44	22.0	02-SEP-95:0800

KEY CLASS: 1  Suitable for potable use

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**NORTH WEST**

15-Nov-1995 11:12 AM

# WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS

## INSTITUTE FOR WATER QUALITY STUDIES

DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

Page 1

PROVINCE : NORTH WEST

DRAINAGE REGION : C30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
C950046	3	7.7	0.3	20.41	11	34	34	45	611	67.8	0.187	< 0.04	4.9	65	267	24.7	21-JUL-95:0929
C950047	2	7.9	0.6	18.46	44	140	85	43	986	114.0	0.030	0.04	7.9	119	380	14.9	17-JUL-95:0200
C950048	3	8.2	0.4	36.51	18	56	33	39	574	71.7	0.017	< 0.04	3.4	61	165	16.0	19-JUL-95:0936
C950049	3	8.3	0.3	20.08	17	54	36	43	640	78.7	0.028	0.04	3.4	73	266	24.0	18-JUL-95:0233
C950050	3	7.9	0.3	29.17	13	50	26	36	556	69.6	0.111	< 0.04	2.3	72	187	16.3	18-JUL-95:0900
C950051	2	8.0	0.2	13.98	8	32	39	34	641	69.1	0.027	< 0.04	3.9	76	316	20.5	20-JUL-95:0205
C950052	2	7.9	0.2	15.94	10	45	39	23	421	53.6	0.041	< 0.04	2.3	46	152	21.7	20-JUL-95:0244
C950053	2	8.0	1.1	18.45	26	11	99	29	658	67.6	0.023	< 0.04	2.3	37	305	25.0	12-JUL-95:0254
C950054	2	8.6	0.3	18.39	12	25	28	22	477	58.5	0.022	< 0.04	3.8	66	196	12.1	13-JUL-95:1043
C950054	2	8.6	0.2	13.19	25	110	55	63	965	105.3	0.079	0.04	2.1	109	444	20.9	21-JUL-95:0320
C950055	2	8.1	0.4	16.32	14	55	34	22	534	64.0	0.021	< 0.04	4.3	79	208	12.4	13-JUL-95:1139
C950056	3	7.9	0.5	25.61	28	16	48	27	570	61.4	0.157	< 0.04	2.0	64	223	16.6	12-JUL-95:0156
C950057	1	8.0	0.8	7.02	34	112	70	38	799	96.2	0.029	< 0.04	11.5	96	333	20.0	12-JUL-95:0940
C950058	1	7.8	0.5	8.64	6	8	37	13	316	37.5	0.029	< 0.04	5.5	25	150	29.5	14-JUL-95:1000
C950060	1	7.9	0.3	2.74	22	62	41	28	486	62.7	0.027	< 0.04	4.1	51	217	23.5	14-JUL-95:1200
C950062	3	8.1	0.3	29.82	34	51	65	39	788	89.5	0.028	< 0.04	2.2	90	307	18.2	11-JUL-95:1220
C950065	3	7.8	0.6	35.26	19	30	48	34	798	83.5	0.024	< 0.04	3.5	115	321	13.3	12-JUL-95:0447
C950066	2	7.9	0.3	19.12	10	129	29	34	535	72.1	0.021	< 0.04	2.0	78	139	18.3	11-JUL-95:1239

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PRIVATE BAG X313

PRETORIA

0001

PROVINCE : NORTH WEST

DRAINAGE REGION : C30

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE

KEY CLASS:  1 Suitable for potable use       2 Suitable for short term potable use       3 Not suitable for potable use

15-Nov-1995 11:12 AM

**WATER QUALITY EVALUATION REPORT - MACRO CONSTITUENTS**  
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DEPARTMENT OF WATER AFFAIRS AND FORESTRY

PRIVATE BAG X313

PRETORIA

0001

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PROVINCE : NORTH WEST

DRAINAGE REGION : D41

TIME PERIOD : 01-FEB-94 - 31-OCT-95

POINT	CLASS	pH	F mg/l	NO3 mg/l as N	SO4 mg/l	Cl mg/l	Na mg/l	Mg mg/l	TDS mg/l	EC mS/m	P mg/l as P	NH4 mg/l as N	K mg/l	Ca mg/l	TAL mg/l as CaCO3	Si mg/l	SAMPLE DATE
C950059	2	8.0	0.4	19.10	11	39	43	25	649	76.9	0.041	0.04	8.9	91	283	24.4	11-JUL-95:0900
C950061	3	8.0	0.5	20.48	166	166	125	59	1196	151.0	0.016	0.05	13.0	136	361	14.5	11-JUL-95:1146
C950064	1	7.9	0.3	9.09	16	44	49	24	523	63.5	0.050	< 0.04	4.7	58	236	22.0	11-JUL-95:0221
E94133	1	8.0	0.1	2.67	< 3	7	4	35	461	57.9	0.007	< 0.04	< 0.3	62	277	7.0	18-NOV-94:1300

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