

Attention	Mr F van Tonder
Customer/Address	Langeberg Municipality
Sample Name	Ashton Drinking Water
Report Serial No.	001

Received Date	16/04/2012
Sample Date	16/04/2012
Report Date	26/04/2012
Sampler	Integral
Sample Container	Integral

			RESULTS and SAMPLE NUMBERS	
ANALYSIS	Method	Unit	S8208	SANS 241 : 2011
Sample Name			Ashton	
Colour	NSA	Hazen/Pt Co	<1	<15
Conductivity	M4	mS/m	33.7	<150
Dissolved Solids	Calc	mg/l	141.0	<1000
pH at 25°C	M6	pH units	6.18	5.0 - 9.5
Turbidity	NSA	NTU	5.14	<1
Ammonia as N	M1	mg/l	0.09	<1.0
Chloride as Cl	M3	mg/l	76.0	<200
Fluoride as F	NSA	mg/l	<0.10	<1.0
Nitrate as N	M5	mg/l	0.9	<11
Nitrite as N	M5	mg/l	<0.02	<0.9
Sodium as Na	M12	mg/l	41.92	<200
Sulphate as SO4	M12	mg/l	21.43	<400
Zinc as Zn	M12	mg/l	<0.01	<5.0
Aluminium as Al	M12	µg/l	<100	<300
Antimony as Sb	M12	µg/l	<10	<20
Arsenic as As	M12	µg/l	<5	<10
Cadmium as Cd	M12	µg/l	<2	<3
Chromium as Cr	M12	µg/l	<10	<50
Cobalt as Co	M12	µg/l	<100	<500
Copper as Cu	M12	µg/l	<100	<1000

NOTE: all results indicated by *, **, *** are subcontracted

Technical Signatory

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Customer/Address	Langeberg Municipality
Sample Name	Ashton Drinking Water
Report Serial No.	001

Received Date	16/04/2012
Sample Date	16/04/2012
Report Date	26/04/2012
Sampler	Integral
Sample Container	Integral

			RESULTS and SAMPLE NUMBERS		
ANALYSIS	Method	Unit	S8208	SANS 241 : 2011	
Sample Name			Ashton		Alert level
Cyanide (recoverable)	M13	µg/l	<10	<50	
Iron as Fe	M12	µg/l	90	<2000	
Lead as Pb	M12	µg/l	<5	<10	
Manganese as Mn	M12	µg/l	180	<500	
Mercury as Hg	M12	µg/l	<1	<1	
Nickel as Ni	M12	µg/l	<20	<70	
Selenium as Se	M12	µg/l	<5	<10	
Uranium as U	M12	µg/l	<5	<15	
Vanadium as V	M12	µg/l	<100	<200	
Calcium as Ca	M12	mg/L	8.75		
Magnesium as Mg	M12	mg/L	8.1		
CCPP	Calc		-39.5		
Langelier's Index	Calc		-3.46		
Total Alkalinity	M7	mg/L	8.7		
Hardness	Calc		55.0		
Total Trihalomethanes	NSA	ug/l	<50	<60	
Phenols	NSA	ug/l	<10	<10	
Total Organic Carbon as C	NSA	mg/L	8.42	<10	
Ecoli	M9	MPN/100ml	0	Not detected - 95% samples, min.	Not detected - 4% samples, max.
Total Coliforms	M9	MPN/100ml	4		10
Heterotrophic Plate Count	M12	MPN/ml	95		1000

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Attention	Mr F van Tonder
Customer/Address	Langeberg Municipality
Sample Name	Bonnievale Drinking Water
Report Serial No.	001

Received Date	16/04/2012
Sample Date	16/04/2012
Report Date	26/04/2012
Sampler	Integral
Sample Container	Integral

			RESULTS and SAMPLE NUMBERS	
ANALYSIS	Method	Unit	S8210	SANS 241 : 2011
Sample Name			Bonnievale	
Colour	NSA	Hazen/Pt Co	<1	<15
Conductivity	M4	mS/m	34.1	<150
Dissolved Solids	Calc	mg/l	143.0	<1000
pH at 25°C	M6	pH units	6.39	5.0 - 9.5
Turbidity	NSA	NTU	0.83	<1
Ammonia as N	M1	mg/l	0.06	<1.0
Chloride as Cl	M3	mg/l	73.0	<200
Fluoride as F	NSA	mg/l	<0.10	<1.0
Nitrate as N	M5	mg/l	0.6	<11
Nitrite as N	M5	mg/l	<0.02	<0.9
Sodium as Na	M12	mg/l	44.77	<200
Sulphate as SO4	M12	mg/l	21.61	<400
Zinc as Zn	M12	mg/l	<0.01	<5.0
Aluminium as Al	M12	µg/l	<100	<300
Antimony as Sb	M12	µg/l	<10	<20
Arsenic as As	M12	µg/l	<5	<10
Cadmium as Cd	M12	µg/l	<2	<3
Chromium as Cr	M12	µg/l	<10	<50
Cobalt as Co	M12	µg/l	<100	<500
Copper as Cu	M12	µg/l	<100	<1000

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Attention	Mr F van Tonder
Customer/Address	Langeberg Municipality
Sample Name	Bonnievale Drinking Water
Report Serial No.	001

Received Date	16/04/2012
Sample Date	16/04/2012
Report Date	26/04/2012
Sampler	Integral
Sample Container	Integral

			RESULTS and SAMPLE NUMBERS		
ANALYSIS	Method	Unit	S8210	SANS 241 : 2011	
Sample Name			Bonnievale		Alert level
Cyanide (recoverable)	M13	µg/l	<10	<50	
Iron as Fe	M12	µg/l	80	<2000	
Lead as Pb	M12	µg/l	<5	<10	
Manganese as Mn	M12	µg/l	170	<500	
Mercury as Hg	M12	µg/l	<1	<1	
Nickel as Ni	M12	µg/l	<20	<70	
Selenium as Se	M12	µg/l	<5	<10	
Uranium as U	M12	µg/l	<5	<15	
Vanadium as V	M12	µg/l	<100	<200	
Calcium as Ca	M12	mg/L	8.06		
Magnesium as Mg	M12	mg/L	8.41		
CCPP	Calc		-47.5		
Langelier's Index	Calc		-2.99		
Total Alkalinity	M7	mg/L	15.8		
Hardness	Calc		55.0		
Total Trihalomethanes	NSA	ug/l	<50	<60	
Phenols	NSA	ug/l	<10	<10	
Total Organic Carbon as C	NSA	mg/L	6.99	<10	
Ecoli	M9	MPN/100ml	0	Not detected - 95% samples, min.	Not detected - 4% samples, max.
Total Coliforms	M9	MPN/100ml	8		10
Heterotrophic Plate Count	M12	MPN/ml	1480		1000

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Attention	Mr F van Tonder
Customer/Address	Langeberg Municipality
Sample Name	McGregor Drinking Water
Report Serial No.	001

Received Date	16/04/2012
Sample Date	16/04/2012
Report Date	26/04/2012
Sampler	Integral
Sample Container	Integral

			RESULTS and SAMPLE NUMBERS	
ANALYSIS	Method	Unit	S8207	SANS 241 : 2011
Sample Name			McGregor	
Colour	NSA	Hazen/Pt Co	<1	<15
Conductivity	M4	mS/m	14.6	<150
Dissolved Solids	Calc	mg/l	61.0	<1000
pH at 25°C	M6	pH units	6.85	5.0 - 9.5
Turbidity	NSA	NTU	5.90	<1
Ammonia as N	M1	mg/l	0.09	<1.0
Chloride as Cl	M3	mg/l	25.0	<200
Fluoride as F	NSA	mg/l	<0.10	<1.0
Nitrate as N	M5	mg/l	0.9	<11
Nitrite as N	M5	mg/l	<0.02	<0.9
Sodium as Na	M12	mg/l	15.08	<200
Sulphate as SO4	M12	mg/l	2.77	<400
Zinc as Zn	M12	mg/l	<0.01	<5.0
Aluminium as Al	M12	µg/l	<100	<300
Antimony as Sb	M12	µg/l	<10	<20
Arsenic as As	M12	µg/l	<5	<10
Cadmium as Cd	M12	µg/l	<2	<3
Chromium as Cr	M12	µg/l	<10	<50
Cobalt as Co	M12	µg/l	<100	<500
Copper as Cu	M12	µg/l	<100	<1000

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Attention	Mr F van Tonder
Customer/Address	Langeberg Municipality
Sample Name	McGregor Drinking Water
Report Serial No.	001

Received Date	16/04/2012
Sample Date	16/04/2012
Report Date	26/04/2012
Sampler	Integral
Sample Container	Integral

			RESULTS and SAMPLE NUMBERS		
ANALYSIS	Method	Unit	S8207	SANS 241 : 2011	
Sample Name			McGregor		Alert level
Cyanide (recoverable)	M13	µg/l	<10	<50	
Iron as Fe	M12	µg/l	80	<2000	
Lead as Pb	M12	µg/l	<5	<10	
Manganese as Mn	M12	µg/l	170	<500	
Mercury as Hg	M12	µg/l	<1	<1	
Nickel as Ni	M12	µg/l	<20	<70	
Selenium as Se	M12	µg/l	<5	<10	
Uranium as U	M12	µg/l	<5	<15	
Vanadium as V	M12	µg/l	<100	<200	
Calcium as Ca	M12	mg/L	6.32		
Magnesium as Mg	M12	mg/L	3.6		
CCPP	Calc		-25.5		
Langelier's Index	Calc		-2.44		
Total Alkalinity	M7	mg/L	23.0		
Hardness	Calc		31.0		
Total Trihalomethanes	NSA	ug/l	<50	<60	
Phenols	NSA	ug/l	<10	<10	
Total Organic Carbon as C	NSA	mg/L	7.62	<10	
Ecoli	M9	MPN/100ml	0	Not detected - 95% samples, min.	Not detected - 4% samples, max.
Total Coliforms	M9	MPN/100ml	0		10
Heterotrophic Plate Count	M12	MPN/ml	30		1000

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Attention	Mr F van Tonder
Customer/Address	Langeberg Municipality
Sample Name	Montagu Drinking Water
Report Serial No.	001

Received Date	16/04/2012
Sample Date	16/04/2012
Report Date	26/04/2012
Sampler	Integral
Sample Container	Integral

			RESULTS and SAMPLE NUMBERS	
ANALYSIS	Method	Unit	S8209	SANS 241 : 2011
Sample Name			Montagu	
Colour	NSA	Hazen/Pt Co	<1	<15
Conductivity	M4	mS/m	39.6	<150
Dissolved Solids	Calc	mg/l	166.0	<1000
pH at 25°C	M6	pH units	6.60	5.0 - 9.5
Turbidity	NSA	NTU	0.67	<1
Ammonia as N	M1	mg/l	0.07	<1.0
Chloride as Cl	M3	mg/l	88.0	<200
Fluoride as F	NSA	mg/l	<0.10	<1.0
Nitrate as N	M5	mg/l	0.7	<11
Nitrite as N	M5	mg/l	<0.02	<0.9
Sodium as Na	M12	mg/l	52.69	<200
Sulphate as SO4	M12	mg/l	27.86	<400
Zinc as Zn	M12	mg/l	<0.01	<5.0
Aluminium as Al	M12	µg/l	<100	<300
Antimony as Sb	M12	µg/l	<10	<20
Arsenic as As	M12	µg/l	<5	<10
Cadmium as Cd	M12	µg/l	<2	<3
Chromium as Cr	M12	µg/l	<10	<50
Cobalt as Co	M12	µg/l	<100	<500
Copper as Cu	M12	µg/l	<100	<1000

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Customer/Address	Langeberg Municipality
Sample Name	Montagu Drinking Water
Report Serial No.	001

Received Date	16/04/2012
Sample Date	16/04/2012
Report Date	26/04/2012
Sampler	Integral
Sample Container	Integral

			RESULTS and SAMPLE NUMBERS		
ANALYSIS	Method	Unit	S8209	SANS 241 : 2011	
Sample Name			Montagu		Alert level
Cyanide (recoverable)	M13	µg/l	<10	<50	
Iron as Fe	M12	µg/l	80	<2000	
Lead as Pb	M12	µg/l	<5	<10	
Manganese as Mn	M12	µg/l	170	<500	
Mercury as Hg	M12	µg/l	<1	<1	
Nickel as Ni	M12	µg/l	<20	<70	
Selenium as Se	M12	µg/l	<5	<10	
Uranium as U	M12	µg/l	<5	<15	
Vanadium as V	M12	µg/l	<100	<200	
Calcium as Ca	M12	mg/L	10.53		
Magnesium as Mg	M12	mg/L	9.73		
CCPP	Calc		-48.5		
Langelier's Index	Calc		-2.51		
Total Alkalinity	M7	mg/L	22.2		
Hardness	Calc		66.0		
Total Trihalomethanes	NSA	ug/l	<50	<60	
Phenols	NSA	ug/l	<10	<10	
Total Organic Carbon as C	NSA	mg/L	7.46	<10	
Ecoli	M9	MPN/100ml	0	Not detected - 95% samples, min.	Not detected - 4% samples, max.
Total Coliforms	M9	MPN/100ml	3		10
Heterotrophic Plate Count	M12	MPN/ml	218		1000

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Attention	Mr F van Tonder
Customer/Address	Langeberg Municipality
Sample Name	Robertson Drinking Water
Report Serial No.	001

Received Date	16/04/2012
Sample Date	16/04/2012
Report Date	26/04/2012
Sampler	Integral
Sample Container	Integral

			RESULTS and SAMPLE NUMBERS	
ANALYSIS	Method	Unit	S8206	SANS 241 : 2011
Sample Name			Robertson	
Colour	NSA	Hazen/Pt Co	<1	<15
Conductivity	M4	mS/m	13.4	<150
Dissolved Solids	Calc	mg/l	56.0	<1000
pH at 25°C	M6	pH units	6.63	5.0 - 9.5
Turbidity	NSA	NTU	2.14	<1
Ammonia as N	M1	mg/l	0.36	<1.0
Chloride as Cl	M3	mg/l	23.9	<200
Fluoride as F	NSA	mg/l	<0.10	<1.0
Nitrate as N	M5	mg/l	0.6	<11
Nitrite as N	M5	mg/l	<0.02	<0.9
Sodium as Na	M12	mg/l	14.96	<200
Sulphate as SO4	M12	mg/l	7.43	<400
Zinc as Zn	M12	mg/l	<0.01	<5.0
Aluminium as Al	M12	µg/l	<100	<300
Antimony as Sb	M12	µg/l	<10	<20
Arsenic as As	M12	µg/l	<5	<10
Cadmium as Cd	M12	µg/l	<2	<3
Chromium as Cr	M12	µg/l	<10	<50
Cobalt as Co	M12	µg/l	<100	<500
Copper as Cu	M12	µg/l	<100	<1000

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Sample Name	Robertson Drinking Water
Report Serial No.	001

Received Date	16/04/2012
Sample Date	16/04/2012
Report Date	26/04/2012
Sampler	Integral
Sample Container	Integral

			RESULTS and SAMPLE NUMBERS		
ANALYSIS	Method	Unit	S8206	SANS 241 : 2011	
Sample Name			Robertson		Alert level
Cyanide (recoverable)	M13	µg/l	<10	<50	
Iron as Fe	M12	µg/l	110	<2000	
Lead as Pb	M12	µg/l	<5	<10	
Manganese as Mn	M12	µg/l	180	<500	
Mercury as Hg	M12	µg/l	<1	<1	
Nickel as Ni	M12	µg/l	<20	<70	
Selenium as Se	M12	µg/l	<5	<10	
Uranium as U	M12	µg/l	<5	<15	
Vanadium as V	M12	µg/l	<100	<200	
Calcium as Ca	M12	mg/L	4.48		
Magnesium as Mg	M12	mg/L	2.9		
CCPP	Calc		-16.5		
Langelier's Index	Calc		-3.08		
Total Alkalinity	M7	mg/L	12.3		
Hardness	Calc		23.0		
Total Trihalomethanes	NSA	ug/l	<50	<60	
Phenols	NSA	ug/l	<10	<10	
Total Organic Carbon as C	NSA	mg/L	8.79	<10	
Ecoli	M9	MPN/100ml	0	Not detected - 95% samples, min.	Not detected - 4% samples, max.
Total Coliforms	M9	MPN/100ml	2		10
Heterotrophic Plate Count	M12	MPN/ml	69		1000

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