REGEN WATERS
LABORATORY • LABORATORIUM
CK. 89/14418/23
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CERTIFICATE OF ANALYSIS

TRIHALOMETHANE COMPOUNDS

(THM)

SAMPLE INFORMATION		LAB NUMBER	D218.D
DATE RECEIVED	27-Sep-13	DATE ANALYZED	1-Oct-13
CLIENT	**Steve-Tswete**	MATRIX	Water
SAMPLE NAME	**Mafube**		
CONTAINER	Plastic		
INSTRUMENT	Agilent 7890A GC/MS, Headspace 7697A, Solid Phase Extraction		

COMPOUND	CONCENTRATION	UNITS
Chloroform	<10	µg/liter
Trichloroethene	<10	µg/liter
Bromodichloromethane	<10	µg/liter
Dibromochloromethane	<10	µg/liter
Bromoform	<10	µg/liter

Samples stored at 5°C after acceptance by Regen Waters.

This report is only applicable to the sample provided for testing.

Regen Waters cannot be held accountable for any errors that might have been caused by improper sampling, handling or storage of samples prior to acceptance.

Trihalomethane Result Interpretation

According to the South African National Standards 241-1: Ed1 2011 the limits for trihalomethane content in drinking water are:

Compound	Concentration	Units
Chloroform	≤300	µg/liter
Bromoform	≤100	µg/liter
Dibromochloromethane	≤100	µg/liter
Bromodichloromethane	≤60	µg/liter
Trichloroethene*	≤20	µg/liter

*Standard from the world health organization drinking water standard 2011 (Not technically a THM but is a frequently requested compound in conjunction with THM analysis.)

Trihalomethanes in potable water is a by-product of disinfection using chlorine and other disinfectants. The concentration of trihalomethanes in potable water needs to be monitored, as long term consumption of high concentrations can lead to chronic ailments.

The sample submitted **Steve-Tswete Mafube** complies with the standards for trihalomethane content in drinking water.

P.L.G UYS (M.D)

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CERTIFICATE OF ANALYSIS
SCREENING FOR PHENOLIC COMPOUNDS

SAMPLE INFORMATION		LAB NUMBER	D218.D
DATE RECEIVED	27-Sep-13	DATE ANALYZED	3-Oct-13
CLIENT	**Steve-Tswete**	MATRIX	Water
SAMPLE NAME	**Mafube**		
CONTAINER	Plastic	DILUTION FACTOR	No Dilution
INSTRUMENT	Agilent 7890A GC/MS, Headspace 7697A, Solid Phase Microextraction		

COMPOUND	CONCENTRATION	UNITS
phenol	<10	µg/liter
2-chlorophenol	<10	µg/liter
2-methylphenol	<10	µg/liter
3+4-methylphenol	<10	µg/liter
2-nitrophenol	<10	µg/liter
2,4-dimethylphenol	<10	µg/liter
2,4-dichlorophenol	<10	µg/liter
2,6-dichlorophenol	<10	µg/liter
4-chloro-3-methylphenol	<10	µg/liter
2,3,5-trichlorophenol	<10	µg/liter
2,4,6-trichlorophenol	<10	µg/liter
24,5-trichlorophenol	<10	µg/liter
2,3,4-trichlorophenol	<10	µg/liter
2,3,6-trichlorophenol	<10	µg/liter
2,3,4,6-tetrachlorophenol	<10	µg/liter
2,3,5,6-tetrachlorophenol	<10	µg/liter
3,4,5-trichlorophenol	<10	µg/liter
pentachlorophenol	<10	µg/liter
DINOSEB	<10	µg/liter
TOTAL IDENTIFIED	**<10**	**µg/liter**

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Regen Waters cannot be held accountable for any errors that might have been caused by improper sampling, handling or storage of samples prior to acceptance.
Results marked "*"-concentration outside of calibration range, estimate only.

P.L.G. UYS (M.D)

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CERTIFICATE OF ANALYSIS

TRIHALOMETHANE COMPOUNDS

(THM)

SAMPLE INFORMATION		LAB NUMBER	D219.D
DATE RECEIVED	27-Sep-13	DATE ANALYZED	2-Oct-13
CLIENT	**Steve-Tswete**	MATRIX	Water
SAMPLE NAME	**Doornkop 1**		
CONTAINER	Plastic		
INSTRUMENT	Agilent 7890A GC/MS, Headspace 7697A, Solid Phase Extraction		

COMPOUND	CONCENTRATION	UNITS
Chloroform	<10	µg/liter
Trichloroethene	<10	µg/liter
Bromodichloromethane	<10	µg/liter
Dibromochloromethane	<10	µg/liter
Bromoform	<10	µg/liter

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Trihalomethane Result Interpretation

According to the South African National Standards 241-1: Ed1 2011 the limits for trihalomethane content in drinking water are:

Compound	Concentration	Units
Chloroform	≤300	µg/liter
Bromoform	≤100	µg/liter
Dibromochloromethane	≤100	µg/liter
Bromodichloromethane	≤60	µg/liter
Trichloroethene*	≤20	µg/liter

*Standard from the world health organization drinking water standard 2011 (Not technically a THM but is a frequently requested compound in conjunction with THM analysis.)

Trihalomethanes in potable water is a by-product of disinfection using chlorine and other disinfectants. The concentration of trihalomethanes in potable water needs to be monitored, as long term consumption of high concentrations can lead to chronic ailments.

The sample submitted **Steve-Tswete Doornkop 1** complies with the standards for trihalomethane content in drinking water.

P.L.G UYS (M.D)

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CERTIFICATE OF ANALYSIS
SCREENING FOR PHENOLIC COMPOUNDS

SAMPLE INFORMATION		LAB NUMBER	D219.D
DATE RECEIVED	27-Sep-13	DATE ANALYZED	4-Oct-13
CLIENT	**Steve-Tswete**	MATRIX	Water
SAMPLE NAME	**Doornkop 1**		
CONTAINER	Plastic	DILUTION FACTOR	No Dilution
INSTRUMENT	Agilent 7890A GC/MS, Headspace 7697A, Solid Phase Microextraction		

COMPOUND	CONCENTRATION	UNITS
phenol	<10	µg/liter
2-chlorophenol	<10	µg/liter
2-methylphenol	<10	µg/liter
3+4-methylphenol	<10	µg/liter
2-nitrophenol	<10	µg/liter
2,4-dimethylphenol	<10	µg/liter
2,4-dichlorophenol	<10	µg/liter
2,6-dichlorophenol	<10	µg/liter
4-chloro-3-methylphenol	<10	µg/liter
2,3,5-trichlorophenol	<10	µg/liter
2,4,6-trichlorophenol	<10	µg/liter
24,5-trichlorophenol	<10	µg/liter
2,3,4-trichlorophenol	<10	µg/liter
2,3,6-trichlorophenol	<10	µg/liter
2,3,4,6-tetrachlorophenol	<10	µg/liter
2,3,5,6-tetrachlorophenol	<10	µg/liter
3,4,5-trichlorophenol	<10	µg/liter
pentachlorophenol	<10	µg/liter
DINOSEB	<10	µg/liter
TOTAL IDENTIFIED	**<10**	**µg/liter**

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CERTIFICATE OF ANALYSIS

TRIHALOMETHANE COMPOUNDS

(THM)

SAMPLE INFORMATION		LAB NUMBER	D220.D
DATE RECEIVED	27-Sep-13	DATE ANALYZED	2-Oct-13
CLIENT	**Steve-Tswete**	MATRIX	Water
SAMPLE NAME	**Doornkop 2**		
CONTAINER	Plastic		
INSTRUMENT	Agilent 7890A GC/MS, Headspace 7697A, Solid Phase Extraction		

COMPOUND	CONCENTRATION	UNITS
Chloroform	<10	µg/liter
Trichloroethene	<10	µg/liter
Bromodichloromethane	<10	µg/liter
Dibromochloromethane	<10	µg/liter
Bromoform	<10	µg/liter

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Trihalomethane Result Interpretation

According to the South African National Standards 241-1: Ed1 2011 the limits for trihalomethane content in drinking water are:

Compound	Concentration	Units
Chloroform	≤300	µg/liter
Bromoform	≤100	µg/liter
Dibromochloromethane	≤100	µg/liter
Bromodichloromethane	≤60	µg/liter
Trichloroethene*	≤20	µg/liter

*Standard from the world health organization drinking water standard 2011 (Not technically a THM but is a frequently requested compound in conjunction with THM analysis.)

Trihalomethanes in potable water is a by-product of disinfection using chlorine and other disinfectants. The concentration of trihalomethanes in potable water needs to be monitored, as long term consumption of high concentrations can lead to chronic ailments.

The sample submitted **Steve-Tswete Doornkop 2** complies with the standards for trihalomethane content in drinking water.

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SCREENING FOR PHENOLIC COMPOUNDS

SAMPLE INFORMATION		LAB NUMBER	D220.D
DATE RECEIVED	27-Sep-13	DATE ANALYZED	4-Oct-13
CLIENT	**Steve-Tswete**	MATRIX	Water
SAMPLE NAME	**Doornkop 2**		
CONTAINER	Plastic	DILUTION FACTOR	No Dilution
INSTRUMENT	Agilent 7890A GC/MS, Headspace 7697A, Solid Phase Microextraction		

COMPOUND	CONCENTRATION	UNITS
phenol	<10	µg/liter
2-chlorophenol	<10	µg/liter
2-methylphenol	<10	µg/liter
3+4-methylphenol	<10	µg/liter
2-nitrophenol	<10	µg/liter
2,4-dimethylphenol	<10	µg/liter
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2,4,6-trichlorophenol	<10	µg/liter
24,5-trichlorophenol	<10	µg/liter
2,3,4-trichlorophenol	<10	µg/liter
2,3,6-trichlorophenol	<10	µg/liter
2,3,4,6-tetrachlorophenol	<10	µg/liter
2,3,5,6-tetrachlorophenol	<10	µg/liter
3,4,5-trichlorophenol	<10	µg/liter
pentachlorophenol	<10	µg/liter
DINOSEB	<10	µg/liter
TOTAL IDENTIFIED	**<10**	**µg/liter**

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Results marked "x" -concentration outside of calibration range, estimate only.

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