

# REGEN WATERS

LABORATORY • LABORATORIUM

CK. 89/14418/23

4 Woltemade Street / Woltemadestraat 4  
 P.O. Box / Posbus 8328  
 WITBANK 1035  
 Web: www.regenwaters.com

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 Fax / Faks: 013-656-5050  
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## CERTIFICATE OF ANALYSIS

### SCREENING FOR PHENOLIC COMPOUNDS

#### SAMPLE INFORMATION

DATE RECEIVED	1-Nov-13	LAB NUMBER	I341 D
		DATE ANALYZED	8-Nov-13
CLIENT	<b>Arnot Power Station</b>	MATRIX	Water
SAMPLE NAME	<b>Raw Water</b>		
CONTAINER	Plastic	DILUTION FACTOR	No Dilution
INSTRUMENT	Agilent 7890A GC/MS, Headspace 7697A, Solid Phase Microextraction		

COMPOUND	CONCENTRATION	UNITS
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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
2,4,5-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
<b>TOTAL IDENTIFIED</b>	<b>&lt;10</b>	<b>µg/liter</b>

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.

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

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

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## CERTIFICATE OF ANALYSIS

### TRIHALOMETHANE COMPOUNDS (THM)

#### SAMPLE INFORMATION

DATE RECEIVED	1-Nov-13	LAB NUMBER	I341.D
		DATE ANALYZED	8-Nov-13
CLIENT	Arnot Power Station MATRIX		Water
SAMPLE NAME	Raw Water		
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 Arnot Power Station Raw Water complies with the standards for trihalomethane content in drinking water.

  
P.L. GUYS (M.D)

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# CERTIFICATE OF ANALYSIS

## SCREENING FOR PHENOLIC COMPOUNDS

### SAMPLE INFORMATION

DATE RECEIVED	1-Nov-13	LAB NUMBER	I342.D
		DATE ANALYZED	8-Nov-13
CLIENT	<b>Arnot Power Station</b>	MATRIX	Water
SAMPLE NAME	<b>Potable Water</b>		
CONTAINER	Plastic	DILUTION FACTOR	No Dilution
INSTRUMENT	Agilent 7890A GC/MS, Headspace 7697A, Solid Phase Microextraction		

COMPOUND	CONCENTRATION	UNITS
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phenol	<10	µg/liter
2-chlorophenol	<10	µg/liter
2-methylphenol	<10	µg/liter
3+4-methylphenol	<10	µg/liter
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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
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3,4,5-trichlorophenol	<10	µg/liter
pentachlorophenol	<10	µg/liter
DINOSEB	<10	µg/liter
<b>TOTAL IDENTIFIED</b>	<b>&lt;10</b>	<b>µg/liter</b>

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## CERTIFICATE OF ANALYSIS

### TRIHALOMETHANE COMPOUNDS (THM)

#### SAMPLE INFORMATION

DATE RECEIVED	1-Nov-13	LAB NUMBER	I342.D
		DATE ANALYZED	8-Nov-13
CLIENT	<b>Arnot Power Station MATRIX</b>		Water
SAMPLE NAME	Potable Water		
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

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Bromodichloromethane	<60	µg/liter
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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 Arnot Power Station Potable Water complies with the standards for trihalomethane content in drinking water.

  
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P.L.G UYS (M.D)