

TEST REPORT

CSI Consolidated Holdings

Attention: Jan Grobbelaar

Cnr.Pretoria Rd & Botha St.Petit

BENONI

Email:jangrobb@gmail.com

FOOD& WATER CHEMISTRY

Your ref:

PAID

Dated:

2014-12-02

Our ref:

432023

Enquiries:

J Morobi

Tel

(012) 428-6844

Date:

2015-01-27

Job No: CSI Consolidated H(P) Sample No: Jan GROBBELAAR

Page:

1 of 3

PRELIMINARY REPORT WATER SAMPLE to SANS 241 (Drinking Water) RESULTS OF ANALYSIS (Sample received in good condition)

Date received: 2014-12-02

Date commence: 2014-12-02

| | | Date commence: 2014-12-02 | |
|------------------------------------|---|------------------------------|------------------------------------|
| Method used | Test performed | Results: TRITOFLEX Sample | SANS 241-1:2011 Standard Limits |
| Physical and aesthetic re | equirements | | |
| DPD Comparator | Free Chlorine as Cl ₂ - in mg/l | <0,1 | ≤5 |
| | Monochloramine as Cl ₂ - in mg/l | <0,1 | ≤3 |
| SANS 7887:2005 | Colour in mg/l Pt-Co | <10 | ≤15 |
| T0319-5,4-01B | Conductivity at 25°C mS/m (Automated) | 2,48 | ≤170 |
| SM 2150B & 2160B | Odour &Taste | Inoffensive | Inoffensive |
| SANS 5213:2010 | Dissolved solids at 180°C in mg/l | 150 | ≤1 200 |
| SANS 375:2005 | Turbidity in nephelometric units (NTU) | <0,5 | ≤5 |
| T0319-5,4-01B | pH at 25°C (Automated) | 6,5 | ≥5 to ≤9,7 |
| Chemical Requirement | ts: Macro-determinands | • | |
| Aquakem-colorimetric | Nitrate as N in mg/l | 5,85 | ≤11 |
| | Nitrite as N in mg/l | <0,01 | ≤0,9 |
| | Sulfate as SO4 in mg/l | 2,75 | ≤250 |
| | Fluoride as F in mg/l | 0,12 | ≤1,5 |
| | Ammonia as N in mg/l | 0,16 | ≤1,5 |
| | Chloride as Cl in mg/l | 0,64 | ≤300 |
| SANS 11885:2008 & T0139-5.4-01A | Sodium as Na in mg/l | 0,50 | ≤200 |
| | Zinc as Zn in mg/l | 0,05 | ≤5 |

Results contd.....

1 Dr Lategan Road, Groenkloof, Private Bag X191, Pretoria, 0001. Tel +27 12 428 7911. Fax +27 12 344 1568

The test work relating to this report was performed by SABS Commercial SOC Ltd. This report and its test results relate only to the specific sample(s) identified herein. They do not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested. This report may not be reproduced except in full. The authenticity of this report and its contents can be confirmed by contacting the person who signed it.

SABS Commercial (Pty) Ltd

Sample No. CSI Consolidated H(P) Date: 2015-01-27

re: 2015-01-27 Page 2/3

| Date received: 2014-12-02 | | Date commenced: 2014-12-02 | |
|------------------------------------|-------------------------------------|------------------------------|------------------------------------|
| Method used | Test performed | Results: TRITOFLEX Sample | SANS 241-1:2011 Standard Limits |
| Chemical Requirements: Mic | ro-determinands | | |
| SANS 11885:2008 & T0319-5.4-01A | Aluminium as Al in μg/l | <10 | ≤300 |
| 100.110 | Antimony as Sb in μg/l | <0,10 | ≤20 |
| ICP-MS | Arsenic as As in μg/l | <0,20 | ≤10 |
| SANS 11885:2008 & | Cadmium as Cd in μg/l | <3 | ≤3 |
| T0319-5.4-01A | Total Chromium as Cr in μg/l | <10 | ≤50 |
| | Cobalt as Co in μg/l | <4 | ≤500 |
| Sub-contracted lab SANAS T0007 | Copper as Cu in μg/l | <10 | ≤2000 |
| Continous Flow Analyser | Cyanide (recoverable) as CN in μg/l | <0,005 | ≤70 |
| 041104400500000 | Iron as Fe in μg/l | 78 | ≤300 |
| SANS 11885:2008 & T0319-5.4-01A | Lead as Pb in μg/l | <4 | ≤10 |
| 10010 0.4-017 | Manganese as Mn in μg/l | <4 | ≤100 |
| ICP-MS | Mercury as Hg in μg/l | <0,10 | ≤6 |
| SANS 11885:2008 & T0319-5.4-01A | Nickel as Ni in μg/l | <5 | ≤70 |
| ICP-MS | Selenium as Se in μg/l | <0,30 | ≤10 |
| Sub- contracted Lab T0168 | Uranium as U in μg/l | <10 | ≤15 |
| SANS 11885:2008 & T0319-5.4-01A | Vanadium as V in μg/l | 0,02 | ≤200 |
| Chemical requirements: Orga | nic determinands | | |
| Sub-contracted lab SANAS T0007 | Total organic carbon as C, mg/l | <0,5 | ≤10 |
| | Trihalomethanes: | <0,010 | |
| | Chloroform, mg/l | <0,010 | ≤0,3 |
| Sub-contracted lab SANAS T0007 | Bromoform, mg/l | <0,010 | ≤0,1 |
| | Dibromochloromethane, mg/l | <0,010 | ≤0,1 |
| | Bromodichloromethane, mg/l | <0,010 | ≤0,06 |
| Sub Contracted Lab T0046 | Microcystin as LR, μg/l | ND | ≤1 |
| Sub- contracted Lab T0007 | Phenols, μg/l | <10 | ≤10 |

ND- Not determined, operational verification of water source turning green

Results contd.....



| Date received: 2014-12-02 | | Date commenced: 2014-12-02 | |
|---------------------------------------|---|------------------------------|-------------------------------------|
| Method used | Test performed | Results: TRITOFLEX Sample | SANS 241-1: 2011 Standard Limits |
| Microbiological requirements | | | |
| SANS 5221:2006 & | Heterotrophic plate count/ 1 ml | Not requested | ≤1 000 |
| FM 5.4 W-B Sub-contacted lab SANAS | Total coliforms /100 m l | Not requested | ≤10 |
| T0269 | E-coliforms/ 100 m l | Not requested | Not Detected |
| | Somatic coliphages / 10 m l | ND | Not Detected |
| Sub-contacted lab SANAS | Cytopathogenic viruses,10 l | ND | Not Detected |
| T0007 | Protozoan parasite Crytosporidium species,10 I Giardia species,10 I | ND | Not Detected |

Date: 2015-01-27

ND - Not determined, operational requirement at water purification treatment plant.

Note: Water sample tested complies to the chemical requirements of SANS 241:2011"Drinking Water".

Jabu Morobi: Manager

KB Mashamaite: Test Officer

CONFIDENTIALITY NOTICE

This message is intended only for the use of individual or entity to which it is addressed and in terms of Section 30 of the Standards Act, 2008, it contains information that is strictly confidential. If the reader of this message is not the intended recipient, or the employee or agent responsible for delivering the message to the intended recipient, you are hereby notified that any disclosure. distribution, coping or the taking of any action in reliance on the contents of this communication, is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone to arrange for the return of the documents to us.

