



# Testing of septic tank, Watercare, type, NC 6

## Test report

**File number:** 520216/2013

**Carried out for:**  
Watercare  
Stejlebjergvej 14  
5610 Assens  
Denmark

**Key words:** Sewer, septic tank, hydraulic efficiency test

**Carried out by:**  
Danish Technological Institute, Pipe Centre  
Gregersensvej  
DK-2630 Taastrup

Stig Clausen, Consultant  
Ulrik Hindsberger, M.Sc.

**Number of pages:** 5  
**Number of supplements:** 3

Taastrup, 29<sup>th</sup> of April 2013



Watercare  
Stejlebjergvej 14  
5610 Assens  
Denmark

Report no. 520216  
Page 1 of 4  
Supplements 3  
Initials UHI & SCL

Gregersensvej  
P.O. Box 141  
DK-2630 Taastrup  
Tel. +45 72 20 20 00  
Fax +45 72 20 20 19

info@teknologisk.dk  
www.teknologisk.dk

## Test Report

**Material:** The septic tank is a nominal size NC 6, type from Watercare. The septic tank is tested with 1,2 l/s.

The septic tank is a 3 chamber tank. The incoming pipe is  $\varnothing$  110 mm. There are two  $\varnothing$  600 mm accesses opening. The tank is made of PE. A computer drawing of the septic tank is shown in supplement 3. Testing was carried out on a factory-made septic tank.

The purpose of the test is to determine the normal capacity/size, the watertightness and the hydraulic efficiency of the septic tank.

**Sampling:** The test tank was sent to the Danish Technological Institute by the manufacturer and received at February the 26<sup>th</sup>, 2013.

**Method:** The test was carried out according to:  
1. DS/EN 12566-1: 2003 with Amendment A  
a. Capacity test, Annex A  
b. Watertightness, Annex A  
c. Testing of the hydraulic efficiency, Annex B

**Period:** The testing was carried out 2012-03-22.

**Watertightness:** The septic tank was tight after 30 min. of testing.


**Capacity:** Capacity: The septic tank has a normal capacity of 6,198 m<sup>3</sup>.


**Result:** With a flow of 1,2 l/s, 5 out of 5 results are below 3 gram. The results are shown in supplement 2.

**Terms:** The test has been performed according to the rear side conditions, which are according to the guidelines laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

---

2013-04-29, Danish Technological Institute, Pipecenter, Taastrup

  
Stig Clausen  
Consultant

  
Ulrik Hindsberger  
Head of section



## Supplement 1: Test

### Reference to section **Test** in CEN standard DS/EN 12566-1

The conformity of the test separator with the manufacturer's construction drawings has been controlled.

#### Annex A

##### Normal Capacity

A normal capacity of 6,198 m<sup>3</sup> was measured to the outlet of the septic tank without the volume from the integrated pump well.

##### Watertightness

The septic tank was tight after 30 min. of testing.

#### Annex B

##### Hydraulic efficiency test

The septic tank was filled with water.

3,0 m<sup>3</sup> of settled sludge (beads 2-5 mm) were pumped into the septic tank together with a flow of 1,2 l/s.

5 times a solution of 1 kg of settled solids (beads 0,3-0,5 mm) were added to the tank with a flow of 1,2 l/s in 10 minutes. The outlet was screened and the beads collected. The results are shown in supplement 2.

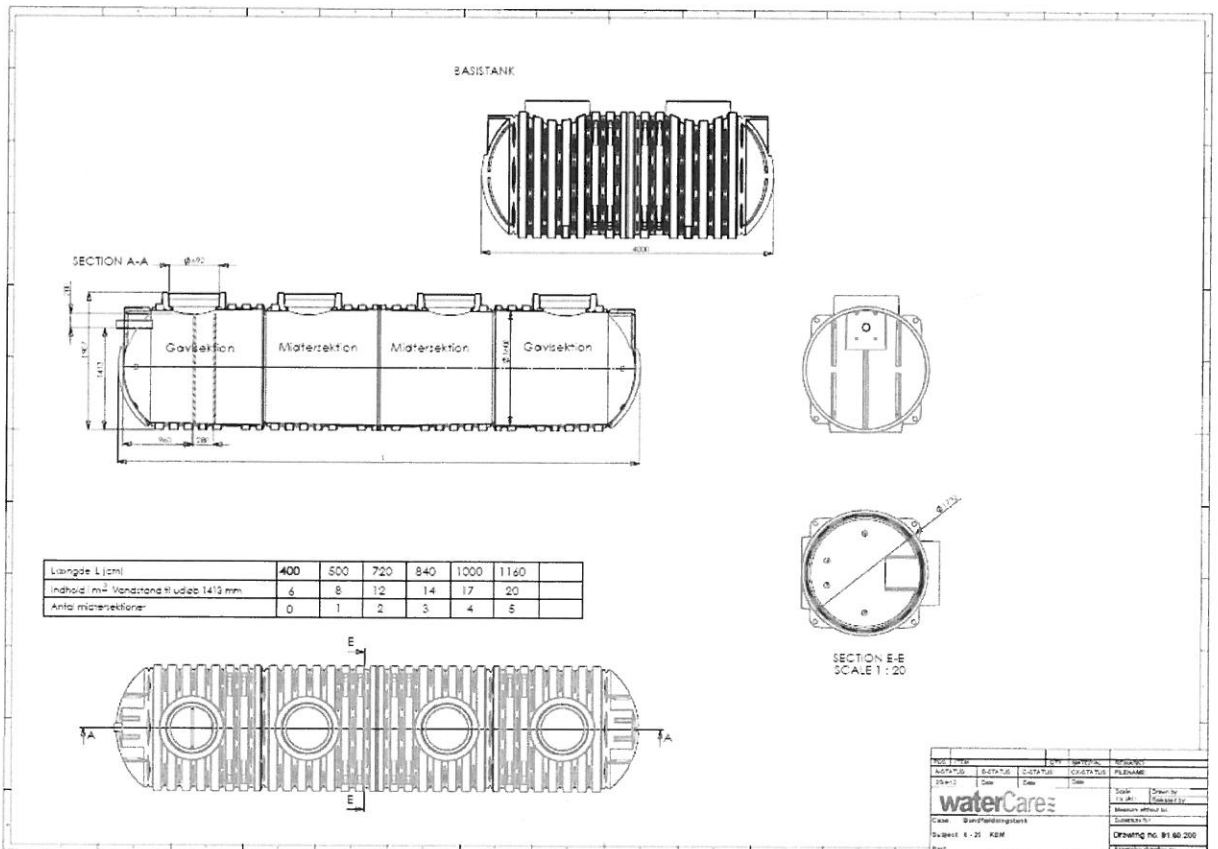
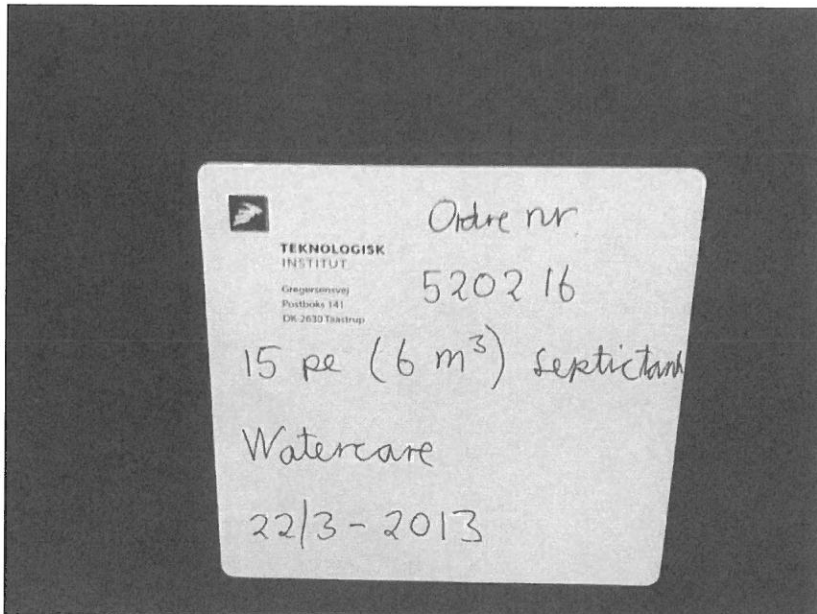
## Supplement 2: Test results

Test no.	1	2	3	4	5
Test results in gram	1,01 g	0,81 g	1,28 g	0,77 g	0,75 g

Average of 5 results: 0,92 g  
 Average of 4 lowest results: 0,84 g



**Supplement 3: Drawings and photos from the test**



Reg. no. 11

Journal./report no. 520216  
Page 4 of 4  
Supplements 3  
Initials UHI & SCL



**DANISH  
TECHNOLOGICAL  
INSTITUTE**

Gregersensvej  
P.O. Box 141  
DK-2630 Taastrup  
Tel. +45 72 20 20 00  
Fax +45 72 20 20 19

info@teknologisk.dk  
www.teknologisk.dk

