



## TEST REPORT

### CLIENT:

ConShield Technologies Inc.  
541 Tenth Street NW #233  
Atlanta, GA 30318-5713

Attn: Joe Cherry

### OBJECTIVE:

To test for the presence of ConShield in concrete samples.

### SAMPLES:

Three samples were resubmitted by the client on October 29, 2010 and identified as follows:

1. Concrete Beco A No CS
2. Concrete Beco B CS Mixed for 90 seconds
3. Concrete Beco C CS Mixed for 7 minutes

### TESTING:

The samples were analyzed according to ConShield's protocol, a modified ASTM D4783 procedure.

The concrete samples were washed with isopropyl alcohol, dried, and then placed in a carbon dioxide chamber overnight. Additionally, the pH of the samples were taken after they were removed from the carbon dioxide chamber.

A cell suspension of *Serratia marcescens* was prepared using distilled water, estimated at  $1 \times 10^7$  cfu/ml. Approximately 0.2-0.3 ml of the cell suspension was placed on the sample surface and allowed to dry. The samples were then placed in a closed container with moist paper towels and incubated for 24 hours at  $30 \pm 1^\circ\text{C}$ .

For cell recovery, 0.2-0.3 ml of sterile water was washed over the outside surface of the core, not the cut surface, stirred with a pipette, then removed and plated on nutrient agar. Additionally, a sterile cotton swab was brushed over the surface of the sample and then used to streak another nutrient agar plate. Both plates were incubated for 48 hours at  $30 \pm 1^\circ\text{C}$ .

### RESULTS:

Once removed from the carbon dioxide chamber, the pH of samples 1 through 3 were 6, 7, and 6, respectively. After 48 hours of incubation, sample 1 and 2 contained red colonies indicating that ConShield was not present, while sample 3 had no growth, indicating that ConShield was present.

Digital images of the samples and nutrient agar plates are presented in Figures 1 through 3 for additional information.

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4750 Nautilus Court South, Unit A, Boulder, CO 80301 Ph: 720 406 4800 Fax: 303 581 0195

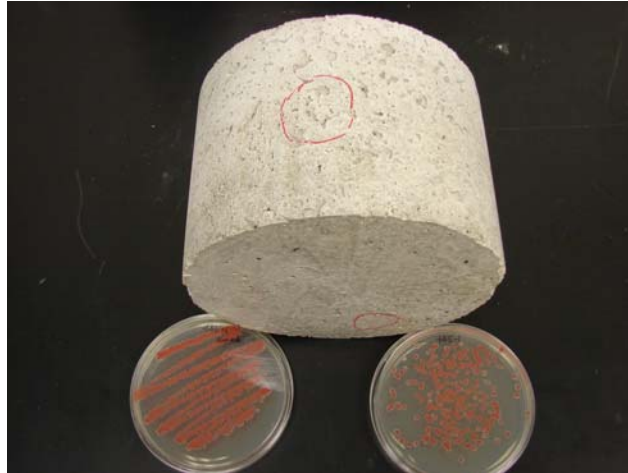
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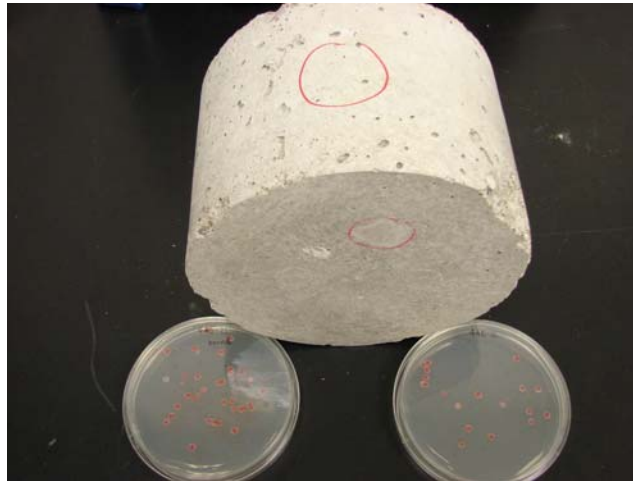
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**Figure 1**



Sample 1

**Figure 2**



Sample 2

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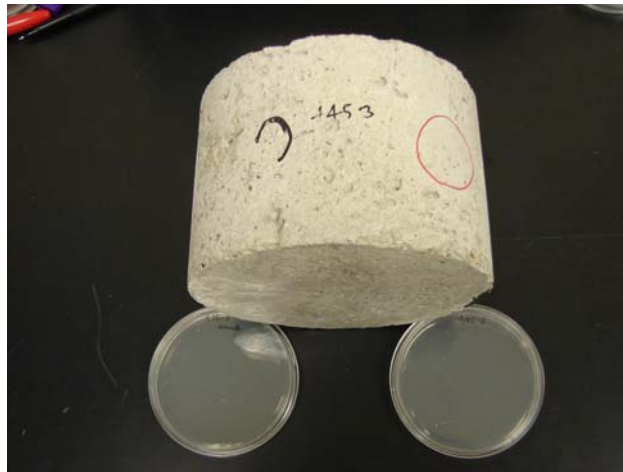
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**Figure 3**



Sample 3

**DATA REVIEWED AND  
REPORT WRITTEN BY:**

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Angelica Tovar  
Project Coordinator

**REPORT REVIEWED BY:**

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Becky F. Kinsinger  
Microbiology Manager

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