

**Woosley, Rosemary (DEQ)**

**From:** dganit.eichen@MOH.GOV.IL  
**Sent:** Thursday, January 07, 2016 10:05 AM  
**To:** nowotarski.allison@epa.gov; DEQFOIA  
**Cc:** IRT.HEN@MOH.GOV.IL  
**Subject:** Corrosion control measures and Water Stabilization

1643-16  
 RMD  
 Lanning  
 Due: 2-1-16

Hello Allison,

I am an Information Specialist for the Ministry of Health in Israel.

In Israel, more than 50% of the water are Desalinated and we require that a supplier who is desalinating water or is otherwise treating the water in a manner causing changes in acidity or alkalinity of the water, shall provide for the stabilization of the water.

Following the Lead contamination in Flint we would very much appreciate receiving information regarding the corrosion control measures that were taken and how you define unstabilized water. In Israel we suffer from opposite problems – too much scale.

We are also interested in the stabilization values of the water in Flint: before changing the source of the water to the Flint river and after the change: Soluble Calcium (mg/L as CaCO<sub>3</sub>), Alkalinity (mg/L as CaCO<sub>3</sub>), Stabilization value CCPP (mg/L as CaCO<sub>3</sub>), Stabilization value (Langelier Index), TDS, pH.

Following are the Israeli Stabilization values for Desalinated water:

| Column A<br>Type of Monitoring | Column B<br>Sampling point      | Column C<br>The factor                 | Column D<br>Unit of measurement   | Column E<br>Required level<br>Operational Value                                                                                                                                                                                                                                                  |
|--------------------------------|---------------------------------|----------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Continuous                     | Exit from<br>Desalination plant | Conductivity                           | Memo Salinity per<br>conductivity | in 99% of daily<br>measurements will<br>not more than 1000<br>above the<br>operational value<br>100 and below in<br>99% of daily<br>measurements, and<br>not more than 1.0<br>7.5-8.5 in 99% of<br>daily<br>measurements, and<br>not more than 1.5<br>8.5-9.5 in 99% of<br>daily<br>measurements |
|                                | Exit from<br>"Wastewater"       | Residual<br>Alkalinity/Minerality      | mg/L                              | 80-120                                                                                                                                                                                                                                                                                           |
|                                |                                 | Calcium                                | mg/L as CaCO <sub>3</sub>         | 100-150                                                                                                                                                                                                                                                                                          |
|                                |                                 | Alkalinity                             | mg/L as CaCO <sub>3</sub>         | 100-150                                                                                                                                                                                                                                                                                          |
|                                |                                 | Stabilization value<br>CCPP            | mg/L as CaCO <sub>3</sub>         | 100-150                                                                                                                                                                                                                                                                                          |
|                                |                                 | Stabilization value<br>Langelier Index | and                               | 0 and above                                                                                                                                                                                                                                                                                      |

[http://www.health.gov.il/Subjects/Environmental\\_Health/drinking\\_water/Documents/Briut47-Eng.pdf](http://www.health.gov.il/Subjects/Environmental_Health/drinking_water/Documents/Briut47-Eng.pdf)

Regards,

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 Environmental Health Dept.  
 Israel Ministry of Health

