

## Brief Stormceptor Sizing Report - Eversource

| Project Information & Location |                           |                            |               |
|--------------------------------|---------------------------|----------------------------|---------------|
| <b>Project Name</b>            | Eversource                | <b>Project Number</b>      | 15-500        |
| <b>City</b>                    | New Bedford               | <b>State/ Province</b>     | Massachusetts |
| <b>Country</b>                 | United States of America  | <b>Date</b>                | 3/15/2017     |
| Designer Information           |                           | EOR Information (optional) |               |
| <b>Name</b>                    | Christian Farland         | <b>Name</b>                |               |
| <b>Company</b>                 | Farland Corporation, Inc. | <b>Company</b>             |               |
| <b>Phone #</b>                 | 508-717-3479              | <b>Phone #</b>             |               |
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### Stormwater Treatment Recommendation

The recommended Stormceptor Model(s) which achieve or exceed the user defined water quality objective for each site within the project are listed in the below Sizing Summary table.

|                                      |            |
|--------------------------------------|------------|
| <b>Site Name</b>                     | Eversource |
| <b>Target TSS Removal (%)</b>        | 80         |
| <b>TSS Removal (%) Provided</b>      | 86         |
| <b>Recommended Stormceptor Model</b> | STC 900    |

The recommended Stormceptor Model achieves the water quality objectives based on the selected inputs, historical rainfall records and selected particle size distribution.

| Stormceptor Sizing Summary |                        |
|----------------------------|------------------------|
| Stormceptor Model          | % TSS Removal Provided |
| STC 450i                   | 79                     |
| STC 900                    | 86                     |
| STC 1200                   | 86                     |
| STC 1800                   | 86                     |
| STC 2400                   | 89                     |
| STC 3600                   | 90                     |
| STC 4800                   | 92                     |
| STC 6000                   | 92                     |
| STC 7200                   | 94                     |
| STC 11000                  | 95                     |
| STC 13000                  | 96                     |
| STC 16000                  | 96                     |
| StormceptorMAX             | Custom                 |

| Sizing Details     |               |                                |                 |
|--------------------|---------------|--------------------------------|-----------------|
| Drainage Area      |               | Water Quality Objective        |                 |
| Total Area (acres) | 0.83          | TSS Removal (%)                | 80.0            |
| Imperviousness %   | 100.0         | Runoff Volume Capture (%)      |                 |
| Rainfall           |               | Oil Spill Capture Volume (Gal) |                 |
| Station Name       | BLUE HILL     | Peak Conveyed Flow Rate (CFS)  |                 |
| State/Province     | Massachusetts | Water Quality Flow Rate (CFS)  |                 |
| Station ID #       | 0736          | Up Stream Storage              |                 |
| Years of Records   | 58            | Storage (ac-ft)                | Discharge (cfs) |
| Latitude           | 42°12'44"N    | 0.000                          | 0.000           |
| Longitude          | 71°6'53"W     | Up Stream Flow Diversion       |                 |
|                    |               | Max. Flow to Stormceptor (cfs) |                 |

| Particle Size Distribution (PSD)<br>The selected PSD defines TSS removal |                |                  |
|--|----------------|------------------|
| Fine Distribution  |                |                  |
| Particle Diameter (microns)  | Distribution % | Specific Gravity |
| 20.0   | 20.0           | 1.30             |
| 60.0   | 20.0           | 1.80             |
| 150.0  | 20.0           | 2.20             |
| 400.0  | 20.0           | 2.65             |
| 2000.0   | 20.0           | 2.65             |

| Notes  |
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| <ul style="list-style-type: none"> <li>Stormceptor performance estimates are based on simulations using PCSWMM for Stormceptor, which uses the EPA Rainfall and Runoff modules.</li> <li>Design estimates listed are only representative of specific project requirements based on total suspended solids (TSS) removal defined by the selected PSD, and based on stable site conditions only, after construction is completed.</li> <li>For submerged applications or sites specific to spill control, please contact your local Stormceptor representative for further design assistance.</li> </ul> |

**For Stormceptor Specifications and Drawings Please Visit:**  
<http://www.imbriumsystems.com/technical-specifications>