EPA SSOAP Toolbox 2.0.0 - **RELEASE NOTES**

This file contains information describing enhancements and modifications in this version of Sanitary Sewer Overflow Analysis and Planning (SSOAP) Toolbox.

Add Tool in SSOAP Toolbox 2.0.0

Condition Assessment Support Tool - The new tool has two primary functions:

- **Prioritizes sub-sewersheds for field investigations to support condition assessment** – The tool obtains RDII parameters stored in central database for selected sub-sewersheds and enables graphical and tabular comparisons. This information can be used to prioritize sub-sewershed investigations for field investigations and subsequent sewer rehabilitation plans. A range of RDII parameters can be used to prioritize sub-sewersheds, including levels of inflow, infiltration, RDII flow rate/acre, and RDII volume/linear feet of sewer in sub-sewersheds.

- **Performs a Pre- and Post- Sewer Rehabilitation RDII Correlation Analysis** – The tool enables graphical and tabular comparison of RDII estimates from two sub-sewersheds (control and rehabilitation) obtained from two different flow monitoring periods (pre-rehabilitation and post-rehabilitation periods). The control sub-sewershed is a sewered area that has not undergone any rehabilitation, is ideally nearby and is similar in age, size, land-use, and pipe materials to a sub-sewershed being studied with post-rehabilitation conditions. The control area is used to compare how RDII in pre- and post- rehabilitation periods respond to environmental variations, as a result of system rehabilitation and other improvements. Results can be used to assess effectiveness of sewer rehabilitation programs.

EPA SSOAP Toolbox 1.0.3 - **RELEASE NOTES**

This file contains information describing enhancements and modifications in this version of Sanitary Sewer Overflow Analysis and Planning (SSOAP) Toolbox.

Enhancements in SSOAP Toolbox 1.0.3

RDII Analysis Tool
- Allow users to fixe Y-Axis Scale in RDII Graph

Online HELP
- Reflect all changes in version 1.0.3

Modifications in SSOAP Toolbox 1.0.3

RDII Analysis Tool
- An update on Automatic Dry Weather Day Selection, including allowing users to choose up to 7 days as dry-weather day criteria.
- An update on Simulation vs. Observed RDII flow functionality.

EPA SSOAP Toolbox 1.0.2 - **RELEASE NOTES**

This file contains information describing enhancements and modifications in this version of Sanitary Sewer Overflow Analysis and Planning (SSOAP) Toolbox.

Enhancements in SSOAP Toolbox 1.0.2

Database Management Tool
- A flow monitoring data viewer similar to RDII graph in RDII Analysis Tool. This new functionality allows users to review flow monitoring data (depth, velocity, and flow).

RDII Analysis Tool
- Introduces Initial Abstraction parameters for all three unit hydrographs – this enhancement allows users to have the same RDII functionality offered in SWMM 5.0.18 or later.
- Recalculate the ADWF automatically, after users discard a dry weather day.
- Added functionality under RDII graph to calculate the RDII volume per linear foot. Users will provide the total sewer length upstream of the flow meter, then the RDII Analysis Tool can calculate the RDII volume as gallons per linear foot.

SSOAP-SWMM5 Interfacing Tool
- Updated the interfacing tool that accepts SWMM5.0.020 Output.

Online HELP
- Continuous Simulation
- Reflect all changes in version 1.0.2

Modifications in SSOAP Toolbox 1.0.2

RDII Analysis Tool
- The total R value in RDII Event Statistics and RDII Graph are now in sync (there was a minor discrepancy of total R value when displaying in RDII Event Statistics – and this display discrepancy has been fixed).
- RDII Volume reported correctly in RDII Event Statistics when using gpm as flow unit. (there was a minor unit conversion problem when using gpm).
- Write all flow function – SSOAP 1.02 exports all flow correctly for any given unit.
- Automatic DWF Day section – the results were minor inconsistent between calculations. This inconsistent did not have significant impact in RDII analysis. This minor inconsistent in DWF day selection has been fixed.
- Enhanced RDII Graph menu items to include colors (serves as a legend for the RDII graph)

Database Management Tool
- Unit conversion – some functions (e.g. Export) had problems when using gpm as flow unit. It has been fixed.
- Flow data scatter graph title has been corrected.

RDII Hydrograph Generation Tool
- The program idles when trying to EXPORT the hydrograph in SWMM5 Input File section. It has been fixed.

EPA SSOAP Toolbox 1.0.1 - **RELEASE NOTES**

This file contains information describing enhancements and modifications in this version of Sanitary Sewer Overflow Analysis and Planning (SSOAP) Toolbox.

Enhancements in the SSOAP Toolbox 1.0.1

Database Management Tool
- The flow meter attrbiutes are now editable on the Sewershed Edit Form.
- Initial abstraction function is now applied in WriteAllFlows function.

RDII Analysis Tool
- Initial abstraction function is now applied in Simulated-vs-Observed RDII Summary.
- The number of decimal places shown in the flow units of the RDII graph now varies with the range of flows.

Online HELP
- Reflect all changes in version 1.0.1

Modifications in the SSOAP Toolbox 1.0.1

Data Management Tool
- Area units other than acres are now handled.
- WriteAllFlows function has been improved.
- The selection of "Liters per Second" in the Scenario Editor is now working properly.

RDII Analysis Tool
- An improved version of Statistics Summary for Multiple-Variable Regression.