# Introducing ...

TOXCHEM™ 4.2

New Unit Processes

Several new unit processes have been added so that Toxchem can now handle the contaminant and metal emissions associated with dust generation in solid handling facilities.

Sludge Drying – This unit process allows the user to evaluate the fate of contaminant in a sludge drying process at various temperatures. The unit process also estimates the heat required for water evaporation.

Solid Conveyor – This new object can be used to estimate the contaminants and metals emissions associated with dust.

Incinerator – This process can be used to estimate the contaminant and metal concentrations in the air stream.

Fly Ash/Dust Removal – This process partitions the fly ash/dust into an air solid stream.
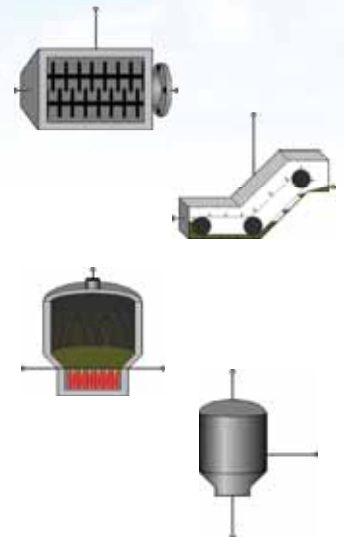
New Adsorption Mechanism

A new mechanism of adsorption to the Dissolved Organic Carbon (DOC) is included in the new version of Toxchem. Studies report that adsorption of contaminants to dissolved organic carbon can play an important role in the overall partitioning of the contaminant in the air-liquid-solid phases. An additional DOC sorption property has also been added to the contaminant database.
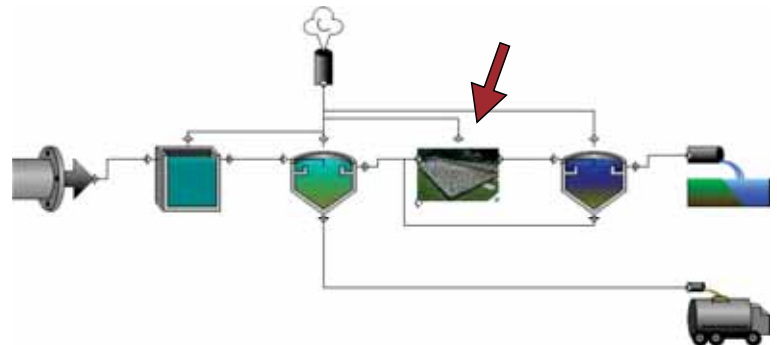
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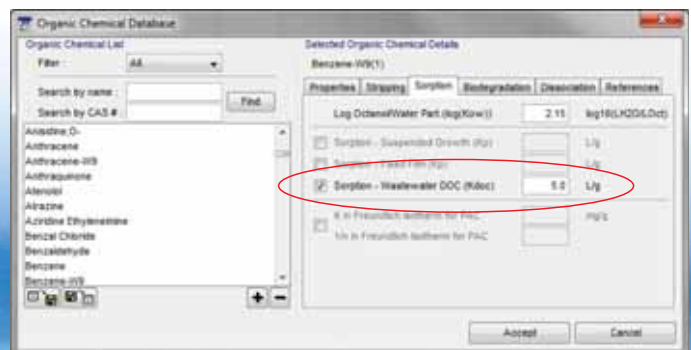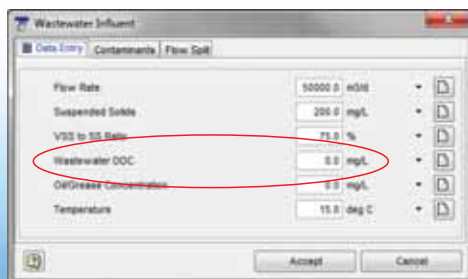
Expanded Useability

Quick Adjust Panel – The new panel allows the user to put a number of selected parameters on a toolbar for the purpose of quickly changing the values and running the simulations. The values of the parameters on the Quick Adjust Panel can also be imported/exported. This feature will enhance productivity while performing simulations for different operational conditions.
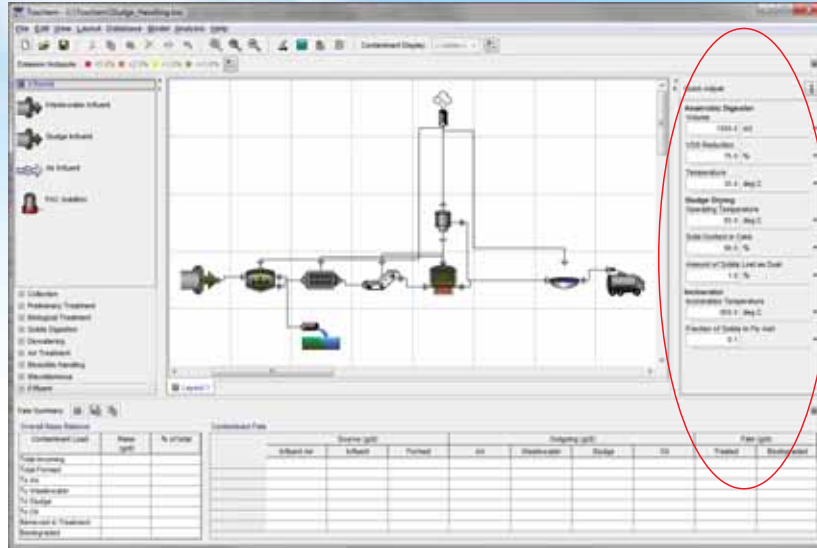
Custom Process Images – To distinguish between similar processes or to make a more visual link between the actual plant and the Toxchem representation, the user can now replace the default process images with pictures of their actual unit processes.

User Added Notes – Each variable in the process input dialogue windows now allow the user to add a comment for future reference.

+ much more.

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