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Activated Sludge  
Calculations With  
Excel Ced  
Engineering

# **Activated Sludge Calculations With Excel Ced Engineering**

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Sludge Calculations  
in a Solids Mass  
Balance ... Activated  
Sludge Calculations  
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Professional ...  
Biological  
Wastewater  
Treatment

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Wastewater Math  
and Excel Equations  
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Just the Formulas  
Bengtson, H.H.,  
Activated Sludge  
Wastewater Treatment  
Calculations with Excel  
Spreadsheets, an  
online article at [www.engineeringexcelspreadsheets.com](http://www.engineeringexcelspreadsheets.com) 3. [www.engineeringexceltemplates.com](http://www.engineeringexceltemplates.com), a source for low cost, easy to use Excel spreadsheets for activated sludge design and operational

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Operations and  
Spreadsheets -  
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Waste Water  
Treatment Calculations  
with Excel. 3-20-2009  
(1st release of  
Approved  
spreadsheet).  
Operational Check  
System Curve Pump  
Selection Force Main &

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## Activated Sludge Calculations With Piping Design Cycle Time & Wet Well Geometry

### Excel CED Engineering

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Activated Sludge  
Calculations with Excel  
- CED Engineering  
Be able to calculate the  
required activated  
sludge recycle flow  
rate, waste activated  
sludge flow rate, and  
aeration tank F:M ratio,  
if given suitable  
wastewater stream and

# Online Library Activated Sludge Calculations With aeration tank

information along with  
the desired value for  
sludge retention time.  
Be able to use an Excel  
spreadsheet for  
making activated  
sludge design...

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Engineering Excel  
Templates Blog  
Obtain a convenient,  
easy to use  
spreadsheet for solids  
mass balance activated

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## Activated Sludge Calculations With

sludge calculations for only \$22.95. Read on for information about the use of an Excel spreadsheet for estimating the effect of recycle flow, BOD and TSS through solids mass balance activated sludge calculations.

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Activated Sludge  
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8. Activated Sludge

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## Activated Sludge Calculations With Design Calculations

The table below shows typical values for three design parameters sometimes used for sizing activated sludge aeration basins: volumetric loading, food to microorganism ratio (F:M), and hydraulic residence time (HRT). Note that values for volumetric loading are given in both U.S. and S.I. units. The

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## Activated Sludge Calculations With

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Activated Sludge  
Calculations in a Solids  
Mass Balance ...

This calculation may be "good enough" (and usually will be) but it is to be noted that the conical section of the clarifier is not included. If you want to be more accurate in calculating the total volume you will need to account for the sloped bottom section of the clarifier

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## Activated Sludge Calculations With Excel

as shown in the graphic below. ... WAS is the waste activated sludge ...

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Activated Sludge Calculations with Excel  
Excel Formulas for Activated Sludge Design Calculations  
The spreadsheet image at the left uses Excel formulas to calculate aeration tank volume requirement based on

# Online Library Activated Sludge Calculations With

entered values for the input parameters shown: primary effluent flow rate,  $Q_o$  ; primary effluent biochemical oxygen demand (BOD),  $S_o$  ; Aeration tank MLSS,  $X$  ; design volumetric loading,  $VL$  ; and % volatile solids in the aeration tank, %Vol .

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Activated Sludge  
Calculations with Excel

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## Activated Sludge Calculations With

- Professional ...

The material balance is thus: Rate of solids outflow Rate of solids inflow = Growth rate of solids The growth of activated sludge is typically hydraulically controlled with the activated sludge wasting rate and is equal to  $Q_w X_w$ . The material balance equation thus becomes:  $(Q_o + Q_r)X - (Q_o X_o + Q_r X_w) \dots$

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Biological Wastewater  
Treatment Processes I:  
Activated Sludge  
Spreadsheet A  
spreadsheet is a  
computer application  
with tools that increase  
the user's productivity  
in capturing, analyzing,  
and sharing tabular  
data

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activated sludge  
aeration tank design

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## Activated Sludge Calculations With Excel | PDH ...

Ability to calculate the required activated sludge recycle flow rate, waste activated sludge flow rate, and aeration tank F:M ratio, if given suitable wastewater stream and aeration tank information along with the desired value for sludge retention time; Be able to use an Excel spreadsheet for making activated

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## Activated Sludge Calculations With Excel

sludge design and  
operational  
calculations

### Engineering

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Wastewater Math and  
Excel Equations  
Activated Sludge  
Design Calculations  
with Excel Templates  
The table at the left  
shows typical values  
for three commonly  
used activated sludge  
aeration tank design  
parameters: volumetric

# Online Library Activated Sludge Calculations With loading, hydraulic retention time, and food to microorganism ratio.

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activated sludge  
Archives - Engineering  
Excel Spreadsheets  
in the activated sludge  
system before it is  
wasted. • Longer MCRT  
= Higher MLSS = More  
Bug Food • Problem: •  
What is the MCRT for  
April 10. th? Refer to



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## Activated Sludge Calculations With

sometimes used for sizing activated sludge aeration basins: volumetric loading, food to microorganism ratio (F:M), and hydraulic residence time (HRT). Note that values for volumetric loading are given in both U.S. and S.I. units. The

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Activated Sludge  
Calculations With Excel

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The activated sludge operational parameters calculated by the Excel formulas in the spreadsheet are:  
recycle activated sludge flow rate,  $Q_r$  ;  
waste activated sludge flow rate,  $Q_w$  , and  
aeration tank food to microorganism ratio, F:M.

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Engineering Excel

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## Activated Sludge

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Parameters. V.

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Process Design

Calculations. VI.

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Operational

Calculations. VII.

Oxygen/Air/Blower

Calculations. 4.

Biochemical Oxygen

Demand as a Cause of

Water Pollution .

Biochemical oxygen

demand (BOD) is an

indirect measure of the

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## Activated Sludge Calculations With concentration of biodegradable organic matter in water or ... Engineering

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calculations with excel  
course

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Aeration Tank Design  
Calculations with Excel  
Spreadsheets  $V = [$   
 $(8.34 * S_o * Q_o) / VL ]$   
 $(1000)$ .  $VMG = V$   
 $*7.48 / 1,000,000$ .  $HRT$   
 $= 24 * VMG / Q_o$ .  $F:M =$

# Online Library Activated Sludge Calculations With Excel

$(8.34 * S_o * Q_o) / (8.34 * \%Vol * X * VMG) = (S_o * Q_o) / (\%Vol * X * VMG).$

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## Activated Sludge Calcs With Excel | Sewage Treatment ...

This Excel spreadsheet package includes a worksheet for calculating primary sludge and thickened waste activated sludge quantities, which will

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be the feed to the anaerobic digester. A second worksheet is used to calculate liquid volume needed for the anaerobic digested and to determine the side water depth and diameter for a specified number of ...

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