

## Activated Sludge Calculations With Excel Ced Engineering

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A screenshot of an Excel spreadsheet to make activated sludge design calculation in U.S. units is shown on the next page. This spreadsheet calculates aeration tank volume based on specified design volumetric loading, VL, and input values for primary effluent flow rate, Qo, primary

*Activated Sludge Calculations with Excel - CED Engineering*

Activated Sludge Calculations with Excel . Harlan H. Bengtson, PhD, P.E. COURSE CONTENT 1. Introduction . The activated sludge process is very widely used for biological wastewater treatment. This course includes background on biological wastewater treatment, a general description of the activated sludge process, information

*Activated Sludge Calculations with Excel - CED Engineering*

Example calculations and examples illustrating the setup and use of an Excel spreadsheet for making activated sludge design and operational calculations are also included. After completing this course you will be familiar with the common variations of the activated sludge process used for biological wastewater treatment and be able to make ...

*E - 1533 - Activated Sludge Calculations with Excel - PDH ...*

The activated sludge process is very widely used for biological wastewater treatment. This course includes background on biological wastewater treatment, a general description of the activated sludge process, information about several variations of the activated sludge process, discussion of design calculations for an activated sludge aeration tank, and discussion of activated sludge ...

*Activated Sludge Calculations With Excel | Sewage ...*

Activated Sludge Calculations With Excel - Free download as PDF File (.pdf), Text File (.txt) or view presentation slides online. Raul M. Tejada

*Activated Sludge Calculations With Excel | Valve | Pump ...*

Activated Sludge Aeration Tank Design Calculations with Excel Spreadsheets  $V = [(8.34 * So * Qo) / VL] (1000)$   $VMG = V * 7.48 / 1,000,000$   $HRT = 24 * VMG / Qo$   $F:M = (8.34 * So * Qo) / (8.34 * \%Vol * X * VMG) = (So * Qo) / (\%Vol * X * VMG)$

*activated sludge aeration tank design excel spreadsheet*

Activated Sludge Waste Water Treatment Calculations with Excel Formulas Activated Sludge Background. The activated sludge process is the most widely used method of biological wastewater... Activated Sludge Parameters. The diagram at the right below shows a typical flow pattern for a conventional ...

*Activated Sludge Waste Water Treatment Calculations with ...*

- Waste sludge varies depending on influent BOD concentrations
- If expecting high influent BOD, operators can build up sludge inventory – MCRT
- Constant amount of sludge is wasted to maintain a target MCRT
- Most common due to it being the easiest to maintain – Constant MLSS
- Waste based on changes in activated sludge growth rate

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The typical sludge volume index (SVI) range for a well-operated activated sludge wastewater system is between 50 and 150 mL/g. The graph (and tabulated data) below compares the SVI at a refinery over a period of approximately three months. This plant, during this time period, produced excellent water quality low in turbidity, suspended solids ...

### *Just the Formulas*

9. Waste sludge concentration 10. Effluent TSS concentration 11. Calculated wasting rate gpm Length Width Total volume Volume Volume Water depth Number of aeration tanks Diameter Input numbers - yellow boxes Output calculations - green boxes SRT - orange box Date calculated: 8. MLSS or MLVSS concentration

### *Wasting Rate Calculation Worksheet*

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

### *activated sludge Archives - Engineering Excel Spreadsheets*

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

Primary sludge, lbs/day = (Flow rate, MGD) x (Inflow SS, mg/L - Effluent SS, mg/L) x 8.34 F052 Hydraulic loading of a DAF unit, gpd/sf = (Inflow rate, gpm) x (1440) Liquid surface area, sf F053 Solids loading to a centrifuge, lbs/hr = (Sludge flow rate, gal/hr) x (Sludge conc %) x 8.34 lbs/gal 100% F054 Efficiency of solids removal, % =  $\frac{1}{100} \cdot$

### *Formula Sheet for all Wastewater Operator Exams Revised 8 ...*

Activated Sludge Calculatons Spreadsheet: Aeration Tank Calculations [Print Replica] Kindle Edition by Harlan h. bengtson (Author) Format: Kindle Edition. 4.5 out of 5 stars 2 ratings. See all formats and editions Hide other formats and editions. Price New from Used from Kindle

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The activated sludge from the underflow of the final setting tanks should be returned to the inlet of the aeration tanks at a rote sufficient to maintain the MLSS concentration at the design value. Excess activated sludge withdrawal system and subsequent treatment and disposal of waste sludge. Since the whole process takes place in a liquid medium the hydraulic

### *Activated Sludge Process Design - Calculation, Example ...*

The process design engineer's tasks include process unit and equipment sizing. In particular, the sizing of the biological reactor for the activated sludge process is critical to good process design because the downstream process units depend on its output. Today, activated sludge processes can be modeled using commercially available software.

### *How to model an activated sludge process | Water Tech Online*

The sludge age of an activated sludge process can be calculated by dividing the pounds of suspended solids or MLSS in the aeration tanks by the pounds of suspended solids that enter the aeration tanks (Equation I.10). The sludge age is

### *Appendix I: F/M, HRT, MCRT, MLVSS, Sludge Age, SVI*

10 - Concentration of settled sludge = 8,000 mg/L: 2 - Influent suspended solids = 200 mg/L: 11 - Settled sludge specific gravity = 1.02: 3 - Influent VSS = 150 mg/L: 12 - 60 % of reactor volume will be decanted each day: 4 - Wastewater temperature = 20 °C: 13 - Liquid depth of SBR = 6.60 m: 5 - Hydraulic detention time = 24 h

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