A B S T R A C T

Alcohol industrial waste water derivated from the fermentation and destillation process in this research, after having been settled, it is treated one by one by biological anaerobic active aerobic sludge process and combination of biological anaerobic and afterwards it is maize plant utilization.
This result of researching shows that process of efficient treatment of destillation waste water is process of biological anaerobic - active aerobic sludge with optimum condition as follows:

Anaerobic process : p.H beginning = 8
detention period= 35 days
sludge/waste water volume = 1/3
C.O.D. removal = 82,5 %.

Active aerobic sludge process :
p.H beginning = 7,5
Aeration time = 36 hours
sludge/waste water volume = 25 %
C.O.D. removal = 91 %

For fermentation waste water it appears that suitable treatment is the process of biological anaerobic which is used for plant utilization.
Fermentation waste water which has been anaerobic treated for 35 days , the 9 beginning p.H in comparation with 3 sludge/waste water volume it appears that when it used for maize plant gives an effect not so much different as fertilizer.