

Water Wizard KLT

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Project Name: CHING
Reference: King Lee
Raw Water Source: Surface
Pretreatment: Acid, Cartridge Filter
Chlorine, Multimedia

Antifoulants:
Coagulant: Alum

System Type: RO
Membrane Manufacturer: Dow
Membrane Type: TFC
Membrane Size: 8x40
Membrane RO Model: FILMTEC BW30-400
Product Water Use: Process

Notes:

Antifoulant recommendation in this report is based on acidification of RO feedwater with 0 ppm of 93.2% 66 degree Baume H₂SO₄.

NOTICE TO USERS OF THIS SOFTWARE: The intention of this software is only to recommend and project the dosage level for the antifoulant/antiscalant to be applied. The actual success of the recommended antifoulant/antiscalant and its dosage level will not be known until under actual operational condition. The result from this software is only as accurate as the information provided. Water Wizard is a copyrighted software program and therefore may not be duplicated without the express written consent of King Lee Technologies.

Water Wizard KLT

Prepared by: CHING
System Location: CHING
Reference: King Lee
Raw Water Source: Surface
System Feedwater Flow Rate: 100 m3/hr

% Recovery desired: 80 %
Average Salt Passage (%): 1 %
Product Water Use: Process

Raw Water Analysis (mg/l)

System Feedwater Analysis (mg/l)

Cations		Anions		Cations		Anions	
Calcium	400.0	Bicarbonate	488	Calcium	400.0	Bicarbonate	488.0
Magnesium	120.0	Sulfate	1000	Magnesium	120.0	Sulfate	1000
Sodium	0	Chloride	0	Sodium	0	Chloride	0
Potassium	0.0	Fluoride	0.00	Potassium	0.0	Fluoride	0.00
Barium	0.00	Nitrate	0.0	Barium	0.00	Nitrate	0.0
Strontium	0.00	Phosphate	0.0	Strontium	0.00	Phosphate	0.0
Iron	0.000	Carbonate	0.0	Iron	0.000	Carbonate	0.0
Aluminum	0.00			Aluminum	0.00		
Copper	0.00			Copper	0.00		
Manganese	0.00			Manganese	0.00		
CO2	109.2	Sulfide	0.0	CO2	0.0	Sulfide	0.0
T.Alk.CaCO3	400	TDS	2033	T.Alk.CaCO3	400	TDS	2033
pH	7.0	Silica	25.0	pH	7.0	Silica	25.0
TOC	0.0	COD	0.0	TOC	0.0	COD	0.0
SDI	4.0	Temp (C)	25.0	SDI	4.0	Temp (C)	25.0
Conductivity	0.0	T. Hardness	0.0	Conductivity	0.0	T.Hardness	0.0
Mg.Hardness	0.0	Chlorine Res.	0.0	Mg.Hardness	0.0	Chlorine Res.	0.0

Complete Water Analysis Data

Cations (mg/l)	Raw Water	Feed Water	Concentrate	Anions (mg/l)	Raw Water	Feed Water	Concentrate
Calcium	400.0	400.0	2000.0	Bicarbonate	488	488.0	2440
Magnesium	120.0	120.0	600.0	Sulfate	1000	1000	5000
Sodium	0	0	0	Chloride	0	0	0
Potassium	0.0	0.0	0.0	Fluoride	0.00	0.00	0.0
Barium	0.00	0.00	0.0	Nitrate	0.0	0.0	0.0
Strontium	0.00	0.00	0.0	Phosphate	0.0	0.0	0.0
Iron	0.000	0.000	0.0	Carbonate	0.0	0.0	0.0
Aluminum	0.00	0.00	0.0				
Copper	0.00	0.00	0.0				
Manganese	0.00	0.00	0.0				
	Raw Water	Feed Water	Concentrate		Raw Water	Feed Water	Concentrate
Temp (C)	25.0	25.0		Sulfide	0.0	0.0	0.0
T.Alk.CaCO3	400	400	2001	C. Dioxide	109.2	0.0	
pH(units)	7.0	7.0	7.7	Silica	25.0	25.0	125.0
SDI(units)	4.0	4.0	20.0	TDS(mg/l)	2033	2033	10165
TOC(mg/l)	0.0	0.0		COD(mg/l)	0.0	0.0	
Conductivity	0.0	0.0	(umhos)	Mg.Hardness	0.0	0.0	(ppm)
T.Hardness	0.0	0.0	(ppm)	Chlorine Res.	0.0	0.0	(ppm)
% Recovery		80					

