

IOWA DEPARTMENT OF NATURAL RESOURCES WATER SUPPLY ENGINEERING SECTION CONSTRUCTION PERMIT APPLICATION

SCHEDULE-10, Suspended Soilds Contact

Prepared	Project Name/Descripti	ion			
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Revised					
		Unit No.	Unit No.		
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Soltenin	g unit-continuous siurry c	oncentrate (%)			
For the follow	ing reference the page of	the plane or energification	whore the descriptio	n can ba faund	
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Weir or	Orifices				
Chemica		Point of Addition			
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What is the m	agnitude of the mixing de	evice speed adjustment?	Spec. I	age No.	
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•		ontrolling the rate and sequ	-		
sludge withdra	dWdIf		Spec. P	-age NO.	
Are cleaneute	provided at all changes in	ning direction to facilitate			
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-				n?	inches
			r flushing systems are	cross connection co	introl devices
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p			-		
How is the rat	e of flow to the unit contr	rolled?	-10.	·	
b. Maximu	m operating inlet flow rat	te: gpm			
	Detention Floccular Upflow in Weir (laid Weir (laid Weir (laid Weir (laid Weir (laid Water loc Solids cord Diameter Solids cord Diameter Solids cord Diameter Softenin For the follow Material Equipmed Chemical Mixing Floccular Sludge C Weir or Chemical Sludge C Weir or Chemical Sludge C Weir or Chemical Sludge C What is the m What provision sludge withdra Are cleanouts Are all valves I Are sludge with What is the m Can the operar If sludge lines, provided which How is the rat	Revised Design Data: Capacity (gpm) Detention time (hours) Flocculation and mixing time (min Upflow rate at solids separation li Weir (launder) length (feet) Weir (launder) loading rate (gpm/ Tank parameter (feet) Water loss (water to waste %) Solids concentration (sludge bled Diameter of sludge withdrawal pil Softening unit-continuous slurry of For the following, reference the page of Materials and Construction Detail Equipment Installation Chemical Feed Mixing Flocculation Sludge Concentrators Weir or Orifices Chemical Addition: Chemical What is the magnitude of the mixing de What provisions have been made for cossludge withdrawal? Are cleanouts provided at all changes in Are all valves located outside of the tan Are sludge withdrawal? Are cleanouts provided at all changes in Are sludge withdrawal pipes provided for What is the minimum air gap provided for What is the rate of flow to the unit contri	Revised Design Data: Capacity (gpm) Detention time (hours) Flocculation and mixing time (minutes) Upflow rate at solids separation line (gpm/ft ²) Weir (launder) length (feet) Weir (launder) loading rate (gpm/ft) Tank parameter (feet) Water loss (water to waste %) Solids concentration (sludge bled to waste %) Diameter of sludge withdrawal piping (inches) Softening unit-continuous slurry concentrate (%) For the following, reference the page of the plans or specifications Materials and Construction Details Equipment Installation Chemical Feed Mixing Flocculation Sludge Concentrators Weir or Orifices Chemical Addition: Chemical Addition: Chemical Addition: Chemical Addition: What is the magnitude of the mixing device speed adjustment? What provisions have been made for controlling the rate and seques sludge withdrawal? Are cleanouts provided at all changes in pipe direction to facilitate Are all valves located outside of the tank? Yes No Are cleanouts p	IRevised Design Data: Unit No. Capacity (gpm) Detention time (hours) Flocculation and mixing time (minutes) Flocculation and mixing time (minutes) Upflow rate at solids separation line (gpm/ft ²) Weir (launder) loading rate (gpm/ft) Tank parameter (feet) Weir (launder) loading rate (gpm/ft) Tank parameter (feet) Detention in (sludge bled to waste %) Solids concentration (sludge bled to waste %) Solids concentration (sludge bled to waste %) Solids concentration (sludge bled to waste %) Solids concentration (sludge bled to waste %) For the following, reference the page of the plans or specifications where the description Equipment Installation Equipment Installation Chemical Feed Mixing Flocculation Sludge Concentrators Weir or Orifices Chemical Addition: Chemical Point of Addition Chemical Addition: Spec. F What is the magnitude of the mixing device speed adjustment? Spec. F What is the magnitude of the tank? Yes No Are cleanouts provided at all changes in pipe direction to facilitate cleaning? Yes Are all valves located outside of the tank? Yes No Mrat is the minimum air gap provided betwenen the sludge outlet and the receiving su	Revised Design Data: Unit No. Unit No. Capacity (gpm)