

IOWA DEPARTMENT OF NATURAL RESOURCES WATER SUPPLY ENGINEERING SECTION

CONSTRUCTION PERMIT APPLICATION

SCHEDULE-13a, Chemical Addition

e Prepared	Project Name/Description :	
Revised	Purpose of Project:	
Design Dat	a:	
a. Chemica	l Name (i.e. Chlorine, Orthophosphate, Caustic soda)	
b. State (Gi	ranular, Liquid, etc.)	
c. Purity:	% Density: lbs./gallons	
d. Feed Rat	re: mg/L	
e. Manufac	turer and Model of the Chemical Feeder:	
f. Minimun	n to Maximum Feed Rate of Feeder: gal/day to	gal/da
g. Feeder A	ccuracy: % Max. Discharge Pressure:	psi
h. Type and	d capacity of Scale if provided:	-
i. Type and	Capacity of Day Tank if provided:	
j. Type and	Capacity of Bulk Tank if provided:	
For chlorin	e addition, what is the raw water concentration of:	
a. Iron	c. Hydrogen sulfide (H ₂ S)	
b. Mangan		
Average Da	y water demand: gallons per day.	
	vater demand: gallons per day.	
· ·	the rate of flow of the water at the chemical injection location? gallons per	r minute
	nis is usually equal to the capacity of the well pump(s) or high service pump(s) discharging into that line	
Describe th	ne method of determining the liquid level in day and bulk storage tanks: Spec. Page No.	
Describe th	ne method of conveying chemicals to and from bulk storage:	
	Spec. Page No.	
Describe th	ne control system for each feeder (including on/off, rate adjustment, etc.):	
	Spec. Page No.	. 0
overflows)	siphon and cross connection control provided for each feeder (water makeup, chemical feed lines, dra	ains &
overnows)	Spec. Page No.	
Are senara		es \square N
•		es
		es \square N
	s not apply to shipping containers or day tanks less than 30 gallons in volume)	_
Is secondar	ry containment provided for chemical storage facilities?	es 🔲 N
Are all acid	storage tanks vented to the outside atmosphere?	es 🗌 N
If carbon d	ioxide is being fed: N/A	
		es 🗌 N
	es, what precautions have been taken to prevent the possibility of carbon monoxide entering the treat	tment
plant	from recarbonation components?	
b. Maxir	mum CO_2 feed rate: mg/L	
	n detention time in Mixing Basin: minutes; in Reaction Basin:	minute
_		. —
d Is a b	arine brownen sebarating the mixing pasifi from the reaction pasifit	es 💹 N

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