

Water Quality

Wastewater Technical Review and Guidance

CHEMICAL ADDITION – REVIEW CHECKLIST

	Water/Wastewater/#5.14, May 2001
FACILITY NAME	DATE
CONSULTING ENGINEER	SITE INSPECTION (DATE & INSPECTOR)
PLANNING OR DESIGN PHASE	
1. Chemical used and purpose of addition.	
2. Proposed dose	
a. mg/l	
b. gpd	
 c. pilot study performed (optimum chemical dosages may be site specific) 	
3. Storage (liquid)	
a. capacity (gal)	
b. location (inside/outside)	
4. Pumps	
a. number	
b. capacity each (gal/min)	
c. are pumps chemically resistant?d. type of pump	
5. Points(s) of chemical application (multiple sites can increase effectiveness)	
(maniple sites can increase effectiveness)	

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Minnesota Pollution Control Agency, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194 (651) 296-6300, toll-free (800) 657-3864, TTY (651) 282-5332 or (800) 657-3864 This material can be made available in alternative formats for people with disabilities.



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QUESTIONS

1. Is liquid storage tank adequately heated and insulated? Contact MPCA "Tanks and Spills" regarding chemical specific containment requirements.	
2. Is emergency drain provided for liquid chemical storage tank? If so, where will chemical drain?	
3. Are adequate shutoff valves provided to isolate all tanks and pumps?	
4. Are cleaning provisions available?	
5. Is mechanical mixing provided at point of chemical application?	
6. Is adequate detention time provided?	
7. Are supplement additives needed (for example to enhance settling)?	
 Fluid velocities into settling basins should not exceed 1.5 ft/sec to minimize floc disruption. 	
9. Are any dry chemicals or concentrated liquids handled? If so are there means to adequately dispense?	
10. Any safety considerations (eyewash/shower, etc.)?	
11. Are additional sludge handling facilities necessary?	