



**Minnesota
Pollution
Control
Agency**

CHEMICAL ADDITION – REVIEW CHECKLIST

Water Quality

Wastewater
Technical
Review and
Guidance

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)	

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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)?

8. 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?
