

GLOUCESTER COUNTY DEPARTMENT OF HEALTH
 204 E. Holly Avenue
 Sewell, New Jersey 08080
 (856) 218-4170

Chemical Handling and Feeding
 (N.J.A.C. 7:10-12.31)

Facility Name	PWSID#	Location Address	Municipality	Block	Lot
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Provide the following information for each chemical feed:

(Attach additional copies of this page as necessary).

Type of Chemical Feed ¹				
Specific Chemical Used				
Number Of Pumps ²				
Pump Make and Model Number				
Type of Pump ³				
Pump Capacity (gph)				
Treatment Plant Capacity (MGD)				
Daily Demand (pounds per day)				
Daily Demand (gallons per day)				
Initial Concentration* (parts per million)				
Final Concentration (parts per million)				
Method of Pump Control ⁴				
Purpose of Treatment				

1 – Indicate the type of chemical feed (i.e. lime, prechlorination, caustic soda, etc.)

2 – For disinfection chemical feed pumps they must have the capacity to disinfect all water with one unit out of use

3 – Indicate the type of chemical feed pump (i.e. diaphragm, volumetric, gravimetric, solution, etc.)

4 – Indicate how the chemical feed pumps are controlled (i.e. flow pacing, residual pacing, etc.)

*** See supporting calculations on Page _____ of Supporting Documentation****General Information**

YES NO N/A

1. Is suitable means provided to ensure proper and continuous application rate of chemical? (N.J.A.C. 7:10-12.31(a)1)

2. Is the variation in the accuracy of the feed pump less than 5% of the intended dosage? (N.J.A.C. 7:10-12.31(a)2)

3. Is the location of chemical feed system designed to prevent dust and fumes from entering other operatin areas in the treatment plant?

4. The solution will not be introduced directly into a pipe or conduit under negative pressure or directly into a well?

5. Are the chemical feed lines looped to a level higher than the highest elevation of the chemical storage tank?

6. Is each chemical feed protected via an anti siphon device?

7. Are the feed lines equipped with clean out connections and accessible for repair?

8. Are the feed lines protected against damage and freezing?

9. Are the feed lines corrosion resistant?

10. Are the feed lines as short as possible and sloped to permit drainage?

11. Is each chemical feed system equipped with a no-flow switch?

Chemical Storage Tank

1. Is there a tank cover provided to prevent contamination?

2. Is the capacity of tank sufficient to provide at least 24 hours worth of chemical storage at normal operating feed rates? (attach calculation)

3. Are means provided to allow for adequate agitation to keep the strength of the chemical solution uniform throughout?

4. Is water which is used for make-up or dilution of chemical feeds introduced through an air gap or other approved method to prevent back siphonage?

Safety Provisions

1. Are rubber or neoprene gloves, apron, and goggles provided?
2. Is a safety shower in close proximity to the chemical handling location provided?
3. Where dry powdered chemicals are handled, are U.S. Bureau of Mines approved respirators provided?
4. Is a copy of the manufacturer's material safety data sheet conspicuously posted at each location where chemicals are handled?

***Submit appropriate plans, specifications, reports, etc. to substantiate your answers. ***

I hereby certify that answers provided herein are accurate and reflective of the project being considered for approval. I hereby certify that answers provided herein are accurate and reflective of the project being considered for approval.


Signature of Applicant/Owner


Date