

**GLOUCESTER COUNTY DEPARTMENT OF HEALTH**

204 E. Holly Avenue  
 Sewell, New Jersey 08080  
 (856) 218-4170

**Chemical and Physical Treatment**

(N.J.A.C. 7:10-12.33)

Facility Name	PWSID#	Location Address	Municipality	Block	Lot
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Treatment Process: \_\_\_\_\_ Treatment objective: \_\_\_\_\_

Make and Model of System: \_\_\_\_\_ Capacity: \_\_\_\_\_

Control of Operation: \_\_\_\_\_

Daily Average Water Demand of System: \_\_\_\_\_

**General Information**

	Yes	No	N/A
1. Is the proposed treatment facilities capable of producing water that meets the applicable State primary and/or secondary drinking water regulations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Is the proposed treatment system of sufficient capacity to produce the daily volumes of water required pursuant to N.J.A.C. 7:10-12.7?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Is all filter shells, ion-exchange pressure tanks and chemical solution feed drums constructed of corrosion resistant materials or contain non-corrodible liners?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Does the Point of Entry Treatment (POET) device meet ANSI/NSF Standard 61?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Will each device be equipped with sampling tap before and after treatment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Is manufacturer specifications and owner's manual for operation and maintenance attached for POET device?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Corrosion control treatment**

1. Is the corrosion control treatment designed to raise the pH to a minimum of 7.5 units?  Yes  No  N/A

2. Check which process will be used to adjust pH:

- Filter bed of graded limestone  Injection of alkaline chemical  other (please attach explanation)

3. If using injection of alkaline chemical, list which chemical: \_\_\_\_\_

4. If using injection of alkaline chemical, is the operation of the feed pump synchronized with the operation of the well pump?

**Removal of iron and manganese**

1. Does the iron and manganese removal unit include an open aeration process?

2. If the unit includes an open aeration process, is it designed with a corrosion resistant screen of not less than 24 mesh? Does forced air which enters the oxidizing unit pass through air particulate filter?

3. Is the iron and manganese removal unit that includes an ion exchange process designed so that the treated water will not contain sodium concentration of excess of 50 mg/L pursuant to N.J.A.C. 7:10-7 and hardness of zero?

**Volatile Organic Compound removal**

1. If using Packed column aeration (PCA), or units or equivalent air strippers, is the units designed to be capable of removing VOCs from at least twice the maximum levels found in the water to below the applicable MCLs? (If PCA unit is followed by a GAC unit(s), the removal of VOCs may be achieved through combined use of both treatment units.)

2. Is each air intake on forced aeration or mechanical induced aeration systems equipped with an air particulate filter?

3. What is the minimum carbon life of the Granular activated carbon unit (before VOC breakthrough)?  
\_\_\_\_\_

4. Is the Granular activated carbon system designed to only use virgin GAC, or regenerated GAC if only used previously in potable water treatment plants and regenerated in facilities used only for potable water treatment plant filter media?

5. Is the system designed to have sampling taps before and after each treatment unit for GAC and PCA systems?

*Note: any type of water treatment not described in 7:10-12:31-33 shall meet the requirements of N.J.A.C. 7:10-11.15, as applicable.*

\*\*\*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.

\_\_\_\_\_  
Signature of Applicant/Owner

\_\_\_\_\_  
Date