

# Did the New Jersey Public Recreational Bathing Rule actually change?

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SAFETY/ENVIRONMENTAL/](http://WWW.NJ.GOV/HEALTH/CEOHS/SANITATION-SAFETY/ENVIRONMENTAL/)**

**NJEHA 2018**

# Did the New Jersey Public Recreational Bathing Rule actually change?

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**HISTORY**

# History

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- **PRB Rule readopted with amendments in 2009**
- **Fall of 2009, The Department convened a group of interested parties**
- **BEACH (Beaches Environmental Assessment and Coastal Health Act of 2000), and Baker Acts (Virginia Graeme Baker Pool and Spa Safety Act, December 19, 2007)**

# History

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- **Amend every subchapter of N.J.A.C. 8:26**
- **Improve syntax and grammar**
- **Redefine terms**
- **Technical and substantive changes**
- **Recodifications**

# Did the New Jersey Public Recreational Bathing Rule actually change?

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## **SUBCHAPTER 1.**

### **PURPOSE, SCOPE AND DEFINITIONS**

# Subchapter 1. DEFINITIONS



## “Aquatic activity area”

- contains aquatic play equipment



## “Aquatic play equipment”

Rope Ladders

Slides

Devices designed to shoot, spray, dump water



[https://www.tripadvisor.com/LocationPhotoDirectLink-g45086-d638307-i150116334-Best\\_Western\\_Plus\\_Kelly\\_Inn\\_Suites-Billings\\_Montana.html](https://www.tripadvisor.com/LocationPhotoDirectLink-g45086-d638307-i150116334-Best_Western_Plus_Kelly_Inn_Suites-Billings_Montana.html)

<http://slicktought.net/fun-kids-swimming-pool-with-slide/kids-swimming-pool-with-slide-type/>

<https://www.goldstar.com/venues/west-chicago-il/turtle-splash-park-tickets>

# Subchapter 1. DEFINITIONS

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NEW

## • “Aquatic recreation facility”

Surf pool



Wave pool



Lazy river



Spray park



- DCA may get involved in enforcement
- Spray parks – under PRB\*

## Subchapter 1. DEFINITIONS

NEW

### **“DSAMs”**

- Department sanctioned analytical methods
- Added new lab testing methods

NEW

### **“Design professional”**

- licensed architect or professional engineer
- “All documents sealed and certified by a design professional”



# Subchapter 1. DEFINITIONS

9

## “Health club”

- **Newly added under “Specially Exempt”**
- **May be exempt if:**
  - ✦ Restricted to guest use only
  - ✦ No one under 16 years of age allowed
  - ✦ Water depth <5ft
  - ✦ Pool is NOT shared with another entity
- **Swimming lessons OK**
  - ✦ To persons other than guests
  - ✦ To persons under 16 years of age
  - ✦ Must have LG and FA personnel

ADD  
ON



# Subchapter 1. DEFINITIONS

10

## “Non-bathing beach”

- NOT designated as a bathing beach
- used for “**primary contact recreation**” aka surfing, diving - activities with high ingestion risk
- Not covered by PRB rule



<http://bingwallpaper.energ.com/200906>



<http://thestar.blogs.com/photoblog/2012/12/colin-mcconnells-2012.html>

# Subchapter 1. DEFINITIONS

11

## “Public recreational bathing ~~place~~ facility”

- Includes **any** beach ADVERTISED, PUBLISHED, DESIGNATED as public
- Does NOT include non-bathing beach and/or private rec bathing facility

ADD  
ON

ADD  
ON



<http://www.monmouthlawyers.com/public-beach-access-in-new-jersey/>

# Subchapter 1. DEFINITIONS

12



- **“Spray park”**
  - Water is sprayed on participants
  - the water is recirculated
  - the water may or may not have depth
  - ALL covered by PRB rule even if licensed with DCA



[http://www.naturalstructures.com/aquatics\\_spray\\_parks\\_parks.shtml](http://www.naturalstructures.com/aquatics_spray_parks_parks.shtml)



<https://sesameplace.com/philadelphia/water-park>

# Did the New Jersey Public Recreational Bathing Rule actually change?

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## **SUBCHAPTER 2.**

### **ADMINISTRATION**

# Subchapter 2. ADMINISTRATION

14

**\*Changed\***

## **Plan Review**

### Both New and Alterations:

- Plans to be submitted to LHA and CO at the same time
- Certified by a design professional

No  
change

Local COs\* must approve  
**BEFORE HA\***

- **CANNOT** begin construction until approved by CO and HA

### New construction:

MAX 90 days for  
approval

### Alterations:

MAX 30 days for  
approval

No  
change



\*CO – Code Official

\*HA – Health Authority

# Subchapter 2. ADMINISTRATION

15



## Operational Checklist

- Completed by owner/TPO
- Seasonal: 21 days before opening
- Year-round: 30 days before expiration of approval certificate

### APPENDIX E. Checklist for Public Recreational Bathing Facilities

New Jersey Department of Health  
Public Health and Food Protection Program

#### CHECKLIST FOR PUBLIC RECREATIONAL BATHING FACILITIES

Municipality	Local Health Authority	Date
Name of Public Recreational Bathing Facility		
Dates of Operation		Type of PRB Facility
PRB Facility Location	Phone Number	Special Exempt <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both
Owners Name and Address		Phone Number
Certified Laboratory	Phone Number	Date of Last Sample
Trained Pool Operator	Email Address	Phone Number

Codes:    X-Compliant    P-Pending    N/A-Not Applicable

#### PAPERWORK

TPO Certification No. and Exp. Date	Log Book
Lifeguard Certifications Current	Bonding and Grounding (5-year cert.)
Pro CPR Certifications Current	Bonding and Grounding (Town)
Aquatics Facility Plan	CB-20 completed and submitted
Water Sample(s) Results	MSDS sheets for all chemicals
Sanitary Surveys (N.J.A.C. 8:26-7.15)	Physical Hazards inspection

#### GENERAL LAYOUT

Emergency Phone Numbers	No Lifeguard on Duty Sign
Pool/Natural Waters Rules Sign	Adult Supervision Sign
No Diving Signs	Special Exempt Signs
Caution Chemical Sign	Spa Clock
No Smoking Sign (Chem. Room)	Spa Rules
Depth Markings	Diving Rules
Entrance(s) Secure	Cliff Jumps < 15'
Floats and Fixed Platforms Permitted with LHA	Equipment for continuous disinfect all types

## Subchapter 2. ADMINISTRATION

16

**\*Changed\***

### **Inspections**

- **BEFORE:** as often as necessary
- **NOW:**
  - ✦ **Seasonal:** 1/season
  - ✦ **Year-round:** 2/year



<https://pinnaclepoolservices.com/atlanta-pool-inspections/>



## Subchapter 2. ADMINISTRATION

17

### **Approvals**



May be in any format (license, permit, checklist)



Must approve/disprove within 10 days of inspection



Must renew each year (12 months or every season)



TPO fills out the Checklist for routine renewals

New facility – on site pre-op inspection

## Subchapter 2. ADMINISTRATION

18

NEW

### **Operator Inspection**

- TPO visits 1x week
- Reviews records, ensures compliance
- Visits are documented
- Documents kept on site



<http://www.vippools.net/home-buyers-inspection.php>

# Did the New Jersey Public Recreational Bathing Rule actually change?

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## **SUBCHAPTER 3.**

### **SWIMMING POOLS AND WADING POOLS**

## Subchapter 3. SWIMMING POOLS and WADING POOLS

20

**\*Changed\***

### **Construction**

- Follow New Jersey Uniform Construction Code (UCC) for construction, design, signage, safety, materials
- 2015 International Swimming Pool and SPA Code (ISPSC)
- Suction Entrapment Avoidance (ANSI/APSP-7)
- Other Sections re-codified under *Operational Requirements* (decks and walkways, diving stands, etc.)

## Subchapter 3. SWIMMING POOLS and WADING POOLS

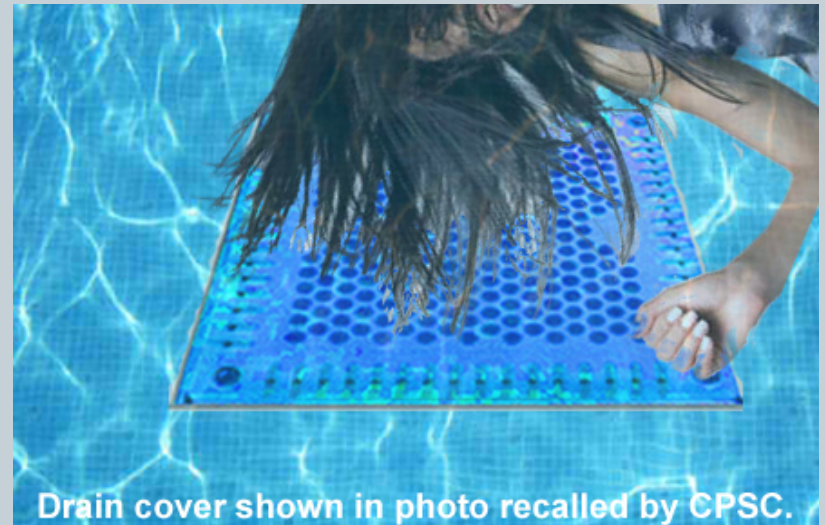
21

- **Wading pools**



Single main drain  
**PROHIBITED**  
(new pools)

- Existing pools – must have an auto shutoff
- Exception: gravity flow drain



<http://www.prweb.com/releases/2011/12/prweb9044558.htm>

## Subchapter 3. SWIMMING POOLS and WADING POOLS

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- **Rope drops, cliff jumping, aquatic play equipment**

**No cliff jumping, rope drops, aquatic play equipment at heights > 15 ft**

NEW



## Subchapter 3. SWIMMING POOLS and WADING POOLS

23

- **Disinfection**

- Gas chlorination prohibited



**\*Changed\***

- **Location/construction requirements**

- Apply to all pools built after September 7, 2010

- **VGB Act**

- All existing pools must be compliant

## Subchapter 3. SWIMMING POOLS and WADING POOLS

24



- **Aquatic recreation facilities**
  - ALL construction requirements of Subchapter 3 apply  
Exceptions: barriers, depth of wading pool
  - Requirements of *N.J.A.C. 5:14A-12, Water Amusement Rides* (DCA) apply



# Did the New Jersey Public Recreational Bathing Rule actually change?

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## **SUBCHAPTER 5.**

### **WATERFRONT SAFETY**

## Subchapter 5. WATERFRONT SAFETY

26

**\*Changed\***

- **Specially Exempt**

**NEW**

- CANNOT be exempt:

- ✦ If there is a functional diving board, water slide or other high risk equipment

**ADD  
ON**

- New sign to include hours of operation

- **Specially exempt health clubs**

**NEW**

- Defibrillators required
- Sign: No one under 16 allowed

# Subchapter 5. WATERFRONT SAFETY

27

## ● **Pool Director**

- pool > 2,000 sq ft - POOL DIRECTOR TRAINING by **Jan 16, 2019**

NEW

**\*Changed\***

## ● **LG Ratios**

- Less than 2,000 sq ft and less than 60 bathers - **1LG**
- More than 2,000 sq ft - **2 LGs**

NEW

## ● **Zone of Protection Plan**

- Area under supervision of a lifeguard
- Must overlap between lifeguards



# Subchapter 5. WATERFRONT SAFETY

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## ● **Pool Supervision**

- LG – No cell phone use!



## ● **Platforms when:**

- Pool >2,000 sq ft
- >5 ft deep
- Diving areas

ADD  
ON

ADD  
ON

\*Alternatives allowed



<https://www.pinterest.de/pin/441493569705377217>

# Subchapter 5. WATERFRONT SAFETY

29

## • **Pool Supervision (cont'd)**

### ○ Aquatics Supervision Facility Plan

...

- + Location of emergency shutoff
- + Hours of operation
- + Water testing schedule & recordkeeping
- + Zone of protection plan
- + Policies for floats and water toys

NEW

ADD ONs

## Subchapter 5. WATERFRONT SAFETY

30

### • **Emergency Equipment**

NEW

- AED where lifeguard is present

NEW

- Throw lines that reach across the pool

NEW

- Post the address of the pool next to emergency phone #s list

NEW

- No telescoping poles and plastic hooks allowed



**\*Changed\***

# First Aid Kit Contents

<u>Items required</u>	<u>Quantity</u>
Adhesive compress strips (band-aid type)	50
Sterile gauze dressings (sponge 3 x 3")	5
Sterile gauze dressings (sponge 4 x 4")	5
Sterile gauze roller bandage (3" wide)	5
Sterile eye dressing pads	5
Triangle bandages	4
Waterproof tape (1 inch x 5 yards)	1
Bandage scissors	1
Tweezers (4 1/2")	1
Instant cold pack	1
Disposable latex, vinyl or nitrile gloves (pair)	5
Liquid hand soap	1
Antiseptic wipes (box)	1
Disposable protective face shield	5
Disposable protective gown	5
Pocket resuscitation mask	1
First aid guidebook	1

<u>Items required</u>	<u>Quantities Required</u>		
	<2,000 Ft <sup>2</sup>	2,000-5,000 Ft <sup>2</sup>	>5,000 Ft <sup>2</sup>
Adhesive compress strips	25	50	100
<b>Sterile gauze dressings (sponge 2"x 2")</b>	10	15	25
<b>Sterile gauze dressings (sponge 2"x 3")</b>	10	15	25
Sterile gauze dressings (sponge 4"x 4")	10	15	25
<b>Sterile gauze roller bandage (1" wide)</b>	4	8	15
Sterile gauze roller bandage (3" wide)	4	8	15
Sterile eye dressing pads (box)	1	1	1
Triangle bandages	2	4	6
Waterproof tape (1"x 5 yards)	1	1	1
Bandage scissors	1	1	1
Tweezers	1	1	1
<b>Blanket</b>	1	1	1
Instant cold pack	5	5	5
Disposable protective face shield	1	1	1
Disposable protective gown	2	4	6
Disposable Gloves (box)	1	1	1
Pocket resuscitation mask	2	4	6
<b>Liquid hand soap or hand sanitizer</b>	1	1	1
First Aid Treatment Policies	1	1	1



# Subchapter 5. WATERFRONT SAFETY

32

**\*Changed\***

- **New signs: Bather rules**
  - ~~Plastic pants~~
  - “swimming” diapers allowed
  - Include water toys and floats use in Aquatic Facility Plan



<https://www.target.com/p/baby-reusable-submarine-print-swim-diaper-aqua-i-play-1-74/-/A-51985926>



## Subchapter 5. WATERFRONT SAFETY

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### Wading pool & Spray park supervision

- New signage NEW
  - Parents or guardians are required to supervise their children at all times
  - No children are allowed in the wading pool (spray park) without adult supervision

- Wading pools in aquatic rec facilities – follow 5.2 Swimming Pool Supervision NEW



## Subchapter 5. WATERFRONT SAFETY

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- **Water Slides**
  - Clear view and rapid access from the LG station
  - Some may need to provide extra supervision based on certain factors
  - Water slide & landing areas are delineated



# Subchapter 5. WATERFRONT SAFETY

35

**\*Changed\***

## **Bathing Beach Supervision**



### ○ **Beach supervisor**

- ✦ Visit 1/week
- ✦ look for hazards
- ✦ review records
- ✦ ensure compliance

### ○ **Lifeguards**

- ✦ Ocean & bays:  
**1LG for every 300 ft**
- ✦ Lake & rivers:  
**1 LG for <100 ft**  
**2LGs for every 300 ft**



- **LGs - No cell phone use!**



## Subchapter 5. WATERFRONT SAFETY

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### • **Bathing Beach Supervision (cont'd)**

#### ○ Aquatics Supervision Facility Plan

...

+ Map known hazards

+ Hours of operation

+ Schedule of operational activities (i.e. recordkeeping)

○ AED when 500+ swimmers or LG is present

NEW

○ Post the address of the beach on emergency phone #s list

NEW

ADD  
ONs

# Did the New Jersey Public Recreational Bathing Rule actually change?

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## **SUBCHAPTER 6.**

### **GENERAL SANITATION, MAINTENANCE, AND OPERATIONS**

## Subchapter 6. GENERAL SANITATION, MAINTENANCE, and OPERATIONS

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### **Bathrooms & Dressing rooms**

- Must be provided at ALL PRB facilities



**Constructed prior to 1986:**

- ✦ OK if no dressing rooms
- ✦ Bathrooms may be portable

**Constructed prior to 2010:**

- ✦ w/in 50 ft of pool/SPA
- ✦ at the entrance to the beach
- ✦ 1 bathroom minimum
- ✦ Portable OK
- ✦ Except: condo where all residences are within 100ft

# Subchapter 6. GENERAL SANITATION, MAINTENANCE and OPERATIONS

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- **Operational Requirements (pools)**

Turn-over rates

\*waiver eligible (~bather load, passing lab samples, meet old rates)

<b>Pool</b>	<b>6 hrs</b> 	<b>8 hrs</b>
<b>Wading pool</b>	<b>1 hr</b> 	<b>2 hrs</b>
<b>Hot tub/SPA</b>	<b>30 mins</b>	<b>30 mins</b>

# Subchapter 6. GENERAL SANITATION, MAINTENANCE and OPERATIONS

40

## Operational Requirements (pools) cont'd

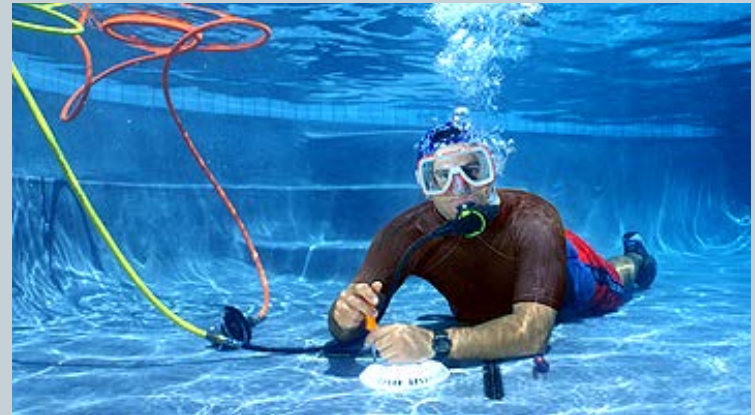
- Pumps running 24/7
- \*Don't have to meet turnover rates at night

NEW

- DAILY inspection of suction outlet and main drain covers



CLOSE DOWN the pool if suction outlet covers are missing/broken/can be removed by hand



[https://mikethepoolman.com/wp-content/uploads/2014/02/underwater\\_pool\\_repair.png](https://mikethepoolman.com/wp-content/uploads/2014/02/underwater_pool_repair.png)



## Subchapter 6. GENERAL SANITATION, MAINTENANCE and OPERATIONS

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### • **Chemical controllers**

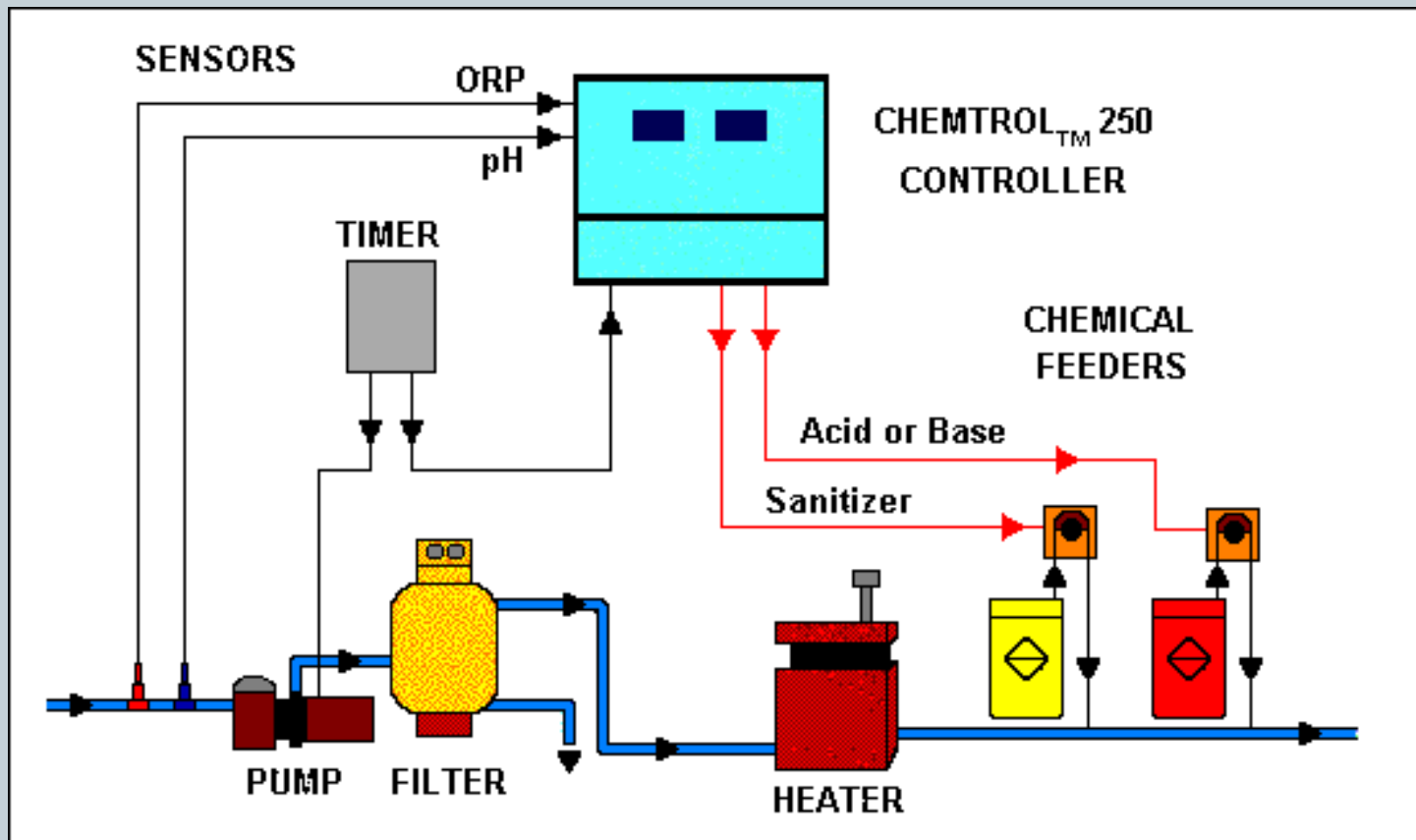


- Written PM plan on site (as per manufacturer)
  - ✦ describes how feeders maintain concentration
  - ✦ Accuracy of controller and sensors
- ORP chart on site
- ORP and pH validated by manual test DAILY
- Keep records!
- To replace 2-hour test requirement:
  - ✦ Manual DPD test 2x day + document
  - ✦ Chemical controller data readily available (downloaded/printed)

# Subchapter 6. GENERAL SANITATION, MAINTENANCE and OPERATIONS

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- **Chemical controller**



## Subchapter 6. GENERAL SANITATION, MAINTENANCE and OPERATIONS

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- Diving stands, boards, slides and floats meet NJUCC
- Surfaces smooth, easily cleaned, free of cracks



<http://www.atchuup.com/most-amazing-swimming-pools/>

- Color, pattern, or finish does not obscure the presence of objects or surfaces within the pool

# Did the New Jersey Public Recreational Bathing Rule actually change?

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## **SUBCHAPTER 7.**

### **SAMPLING AND WATER QUALITY**

# Subchapter 7. SAMPLING AND WATER QUALITY

45

## • **Microbiological sampling**

NEW

DSAMs

- Most current approved analytical methods
- ✓ Used by NJDEP
- ✓ Approved by the United States Environmental Protection Agency (USEPA)
- Maintained at  $< 50^{\circ} \text{F}$  ( $10^{\circ} \text{C}$ ) while being transported



<https://www.sanair.com/how-are-water-samples-gathered-and-sent-to-a-lab-for-testing/>

# Subchapter 7. SAMPLING AND WATER QUALITY

46

**\*Changed\***

- **Processing of samples**
  - ~~30 hrs~~ 8 hours to get to the lab
  - Lab must notify State and local HA and operator within 1 hour if sample is unsatisfactory
  - Written report within 1 business day
  - Resample within 24 hours
  - CCMP sampling – notify State DEP and DOH immediately



# Subchapter 7. SAMPLING AND WATER QUALITY

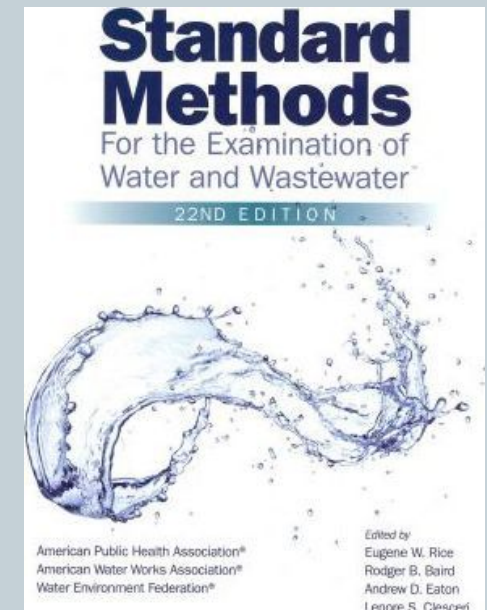
47

**\*Changed\***

## • pH and chlorine analysis

- ANSI1 and ANSI2 for chlorine/disinfectant levels
- Maximum increased from 4 ppm to 10 ppm

	Minimum	Ideal	Maximum	
			Indoor pools	Outdoor Pools
<b>Free chlorine residual (parts per million (ppm))</b>	1.0	2.0-4.0	<b>10.0</b>	<b>10.0</b>
<b>Combined chlorine (ppm)</b>	None	None	0.2	0.2
<b>Bromine (ppm)</b>	2.0	4.0-6.0	<b>10.0</b>	<b>10.0</b>
<b>pH</b>	7.2	7.4-7.6	7.8	7.8



# Subchapter 7. SAMPLING AND WATER QUALITY

48

**\*Changed\***

## **Microbiological standards for bathing beaches**

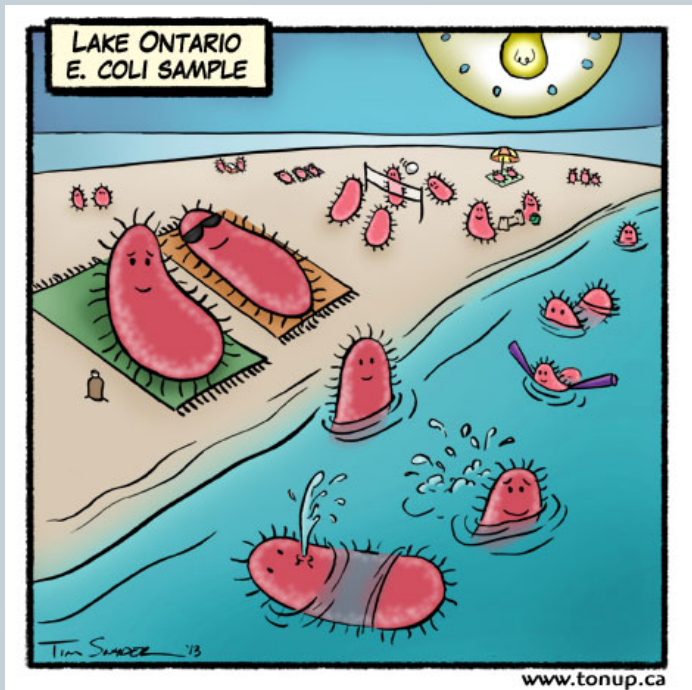
### Fresh waters:

- Based on Escherichia coli densities, not fecal coliforms
- Standard <320 CFU /100 ml
- USEPA compliant

### Marine waters:

- Enterococcus densities

No  
change





# Subchapter 7. SAMPLING AND WATER QUALITY

- Storm conditions – must post a sign



THE STORM HAS CAUSED RIP  
CURRENTS TO DEVELOP

DO NOT GO IN THE WATER  
WHILE THIS DANGEROUS  
CONDITION EXISTS











# Did the New Jersey Public Recreational Bathing Rule actually change?

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## **SUBCHAPTER 8.**

### **ENFORCEMENT PROCEDURES**

## Subchapter 8. ENFORCEMENT PROCEDURES

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### **Local Health Authority inspections**



- Review Checklist submitted by TPO
- Decide if need to be inspected before opening



- Approval may be given based on Checklist alone



- Bathing beaches must be inspected prior to opening
- Seasonal pools – 1 operational inspection

# Subchapter 8. ENFORCEMENT PROCEDURES

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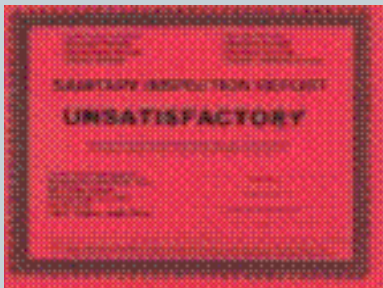
## Satisfactory

- substantial compliance



## Conditionally Satisfactory

- one or more violations
- unannounced reinspection
- may do a full inspection



## Unsatisfactory

- gross unsanitary or unsafe conditions
- imminent health and safety hazard



# Subchapter 8. ENFORCEMENT PROCEDURES

57

- **Grounds for CLOSURE**

- Underwater hazards that have not been identified

ADD ON



# Subchapter 8. ENFORCEMENT PROCEDURES



- **Grounds for CLOSURE**
  - Failure to meet water quality standards



<https://www.youtube.com/watch?v=tW3y37YsOkI>

## Subchapter 8. ENFORCEMENT PROCEDURES

- **Grounds for CLOSURE**
  - Lack of required supervisory personnel/lifeguards
  - Equipment, structures, areas poorly maintained





## Subchapter 8. ENFORCEMENT PROCEDURES

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### **Closure of bathing beaches**

- **1<sup>st</sup> microbiological exceedance**

- Lab and beach operator notify LHA within 1 hour

- ➡ In CCMP areas – LHA notify NJDOH and NJDEP within 30mins

- ➡ Non-CCMP areas – notify NJDOH within 24 hours

- Operator posts an ADVISORY sign

- Post notice of exceedance online and link to CCMP website

- Resample within 24 hours

- Operator and LHA do a sanitary survey to ID pollution sources



## ADVISORY

A water sample collected from this beach within the past 24 hours indicates bacteria levels over the recreational bathing standard.

Beaches **remain open** and additional samples have been collected. Resample results will be available tomorrow.

You may view all test results online at [www.njbeaches.org](http://www.njbeaches.org) or by calling the health department at \_\_\_\_\_

Bacteria levels change with the weather, tides, and currents. They are usually highest near storm water pipes, especially during and after rainfall.

You can reduce your risk of illness avoiding contact with water in or near storm water pipes.

DATE, LHA PHONE NUMBER

## Subchapter 8. ENFORCEMENT PROCEDURES

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### **Closure of bathing beaches**

- **2<sup>nd</sup> exceedance (resample) - CLOSURE**

- In CCMP area: LHA notify NJDOH & NJDEP within 30 minutes
- Non-CCMP area: notify NJDOH within 24 hours
- Within 1 hour operator shall
  - ✦ Post CLOSURE sign at all beach entrances
  - ✦ Post a beach closure notice online and link to CCMP website

BEACH SHALL REMAIN CLOSED UNTIL  
WATER SAMPLE AND SANITARY SURVEY SHOW  
WATER QUALITY MEETS THE STANDARD

## ADVISORY



A water sample collected from this beach within the past 24 hours indicates bacteria levels exceeding the recreational bathing water quality standard.

Beaches are **CLOSED** for swimming and bathing activities and additional samples have been collected. Resample results will be available tomorrow.

If the resample is below recreational bathing water quality standard, the advisory will be removed. If the resample is above the water quality bacteria standard the beach will remain CLOSED.

You may view all test results online at [www.njbeaches.org](http://www.njbeaches.org) or by calling the health department at \_\_\_\_\_

Bacteria levels change with the weather, tides, and currents. They are usually highest near storm water pipes, especially during and after rainfall.

You can reduce your risk of illness avoiding contact with water in or near storm water pipes.

DATE, LHA PHONE NUMBER



## Subchapter 8. ENFORCEMENT PROCEDURES

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### **Closure of bathing beaches**

- **Closures due to heavy rainfall**

- If exceedance because of heavy rainfall – shall be closed until specified by LHA
- If closed more than 50% of the time over the course of a year after rainfall

➔ Operator posts a permanent sign:

WARNING!

RAINFALL CAUSES THE WATER QUALITY AT THE BEACH TO EXCEED MICROBIOLOGICAL WATER QUALITY STANDARDS. WATER CONTACT MAY CAUSE ILLNESS. NO SWIMMING OR BATHING IS ALLOWED **FOR \_\_\_ HOURS AFTER THE RAIN HAS STOPPED** TO ENABLE THE RAINFALL-CAUSED WATER POLLUTION TO DISSIPATE.

# Subchapter 8. ENFORCEMENT PROCEDURES

66

**\*Changed\***

## • **Recordkeeping**

- Keep records for ~~1~~ 3 years minimum
- Required records:
  - ✦ ...
  - ✦ Notifications of unsatisfactory water samples to LHA
  - ✦ Notifications of closings and reopenings
  - ✦ Non-microbiological water contamination events
  - ✦ Floatable debris wash-up events;
  - ✦ Appendix E Checklist for PRB facilities
  - ✦ Appendices C & D Chemical water quality standards

ADD  
ONs

# Subchapter 8. ENFORCEMENT PROCEDURES

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## • **Recordkeeping - Geomean**

NEW

- CCMP areas –calculated by NJDEP
- Non-CCMP areas – calculated by LHA
- Central tendency of a set of numbers
- Used to normalize the range of bacteria results

**Geometric Mean = n-th root of  $(X_1)(X_2)...(X_n)$**

where  $X_1, X_2,$  = each data point

**n** = total # of data points



- One extreme result does not adversely affect overall seasonal average

- Report to NJDOH at the end of the season

# Subchapter 8. ENFORCEMENT PROCEDURES

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## Example

	Column A	Column B	Column C
1	<u>DATE</u>	<u>ENTERO RESULT</u>	<u>GEOMEAN</u>
2	June 25 2012	86	
3	July 2 2012	35	
4	July 9 2012	10	
5	July 16 2012	2256	
6	July 23 2012	56	
7	July 30 2012	10	
8	Aug 6 2012	20	
9	Aug 13 2012	20	
10	Aug 20 2012	10	
			37.7

- Geomean normalizes the one extreme result on July 16
- Excel formula: =geomean(b2:b10)
  - B2 is Column B Row 2
  - B10 is Column B row 10

# Subchapter 8. ENFORCEMENT PROCEDURES

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## Bathing beach sample results shall not exceed:

Indicator	Maximum Levels	
	GM (cfu/100 mL)	WQS (cfu/100 mL)
Enterococci – marine	30	104
E. coli – fresh	100	320

Problem if exceeds this value



Exceed 30-day rolling Geometric mean

Sanitary survey required and submitted.  
All fields on form are mandatory



NOTE:  
GM- Geometric mean

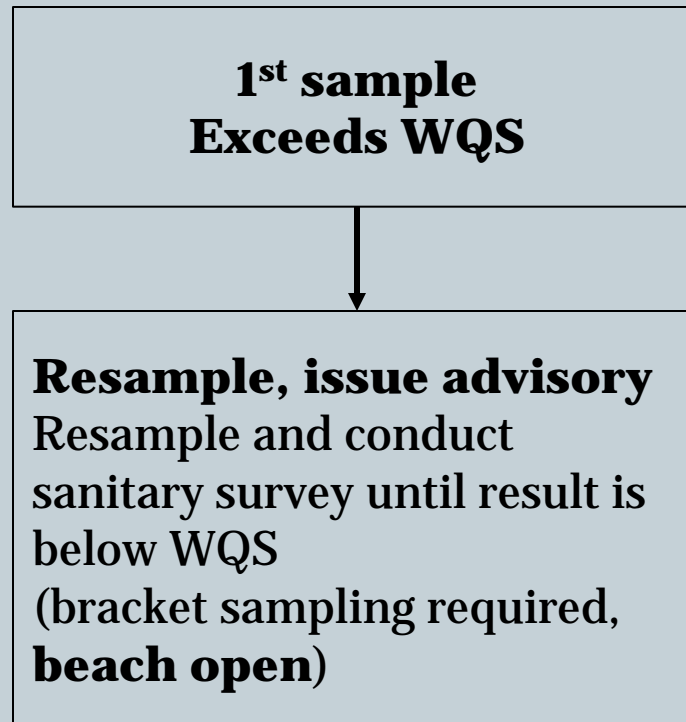
Cfu- colony forming units  
WQS- Water Quality Standard

# Subchapter 8. ENFORCEMENT PROCEDURES



- **WQS exceedance**

## **1<sup>st</sup> sample - what to do**



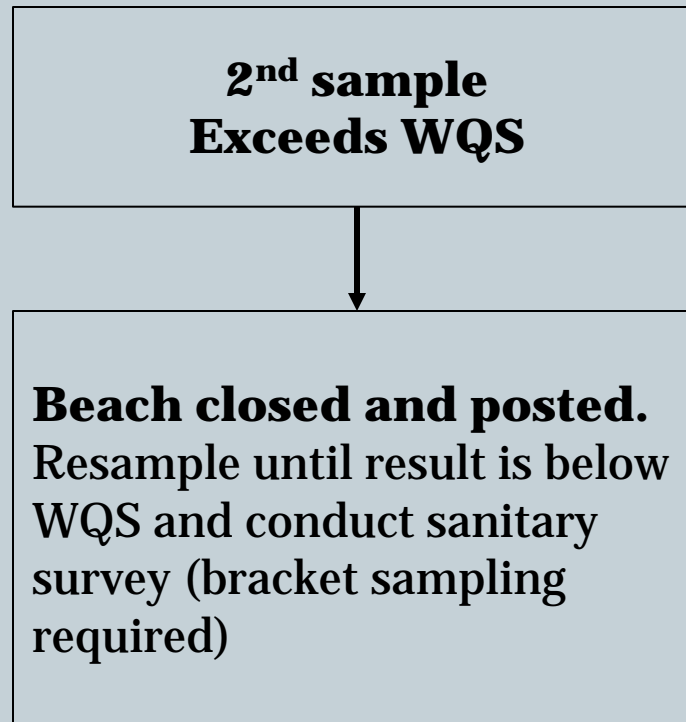
\* Refer to  
**NJAC 8:26-8.8 (a)1-6**  
for detailed  
instructions on 1<sup>st</sup>  
sample exceedance

# Subchapter 8. ENFORCEMENT PROCEDURES



- **WQS exceedance**

## **2<sup>nd</sup> sample - what to do**



\* Refer to **NJAC 8:26-8.8 (a) 7** for detailed instructions on 2<sup>nd</sup> sample exceedance and beach closure

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## Reporting of deaths and serious injuries



Operator reports to LHA



LHA notifies NJDOH

LHA investigates and completes CB-2 immediately

LHA submits CB-2 to NJDOH within five days of the incident

Use updated CB-2 form

<http://www.nj.gov/health/forms/cb-2.pdf>





# Did the New Jersey Public Recreational Bathing Rule actually change?

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## **APPENDICES**

# APPENDIX A. Recognized Certifications

- Cardiopulmonary Resuscitation (CPR) Certification
- American Heart Association
- American Red Cross
- American Safety and Health Institute
- Emergency Care and Safety Institute
- EMS Safety Services, Inc.
- National Safety Council
- First Aid Certification
- American Heart Association
- American Red Cross
- American Safety and Health Institute
- Emergency Care and Safety Institute
- EMS Safety Services, Inc.
- National Safety Council
- Lifeguarding Certification for Swimming Pools and Lake Bathing
- American Red Cross
- Boy Scouts of America (BSA)
- International Lifeguard Training program
- International Life Saving Federation (ILSA)
- Lifeguard-Pro
- National Aquatics Safety Company (NASCO)
- Starfish Aquatics Institute
- Young Men's Christian Association (YMCA)
- Lifeguarding Certification for Ocean and Tidal Waters
- North Shore Lifesaving Association (NSLA)
- Ocean Lifesaving Association (OLA)
- South Jersey Lifeguard Chiefs Association (SJLCA)
- Triton Water Rescue (TWR) (triathlon specialization)
- United States Lifesaving Association (USLA)
- Trained Pool Operators (TPO) Certification
- American Swimming Pool and Spa Association (ASPSA)
- Aquatics Training Institute (ATI)
- Association of Pool and Spa Professionals (APSP)
- AquaSafe Pool Management, Inc. (ASPM)
- National Pool and Spa Institute (NSPI)
- National Recreation and Park Association (NRPA)
- National Swimming Pool Foundation (NSPF)
- North Shore Lifesaving Association (NSLA)
- Starfish Aquatics Institute
- Young Men's Christian Association (YMCA)

# Appendix B. FIRST AID SUPPLIES

Description of Required Items	Quantities Required		
	<2,000 Ft <sup>2</sup> of Bathing and Swimming Water Area	2,000 to 5,000 Ft <sup>2</sup> of Bathing and Swimming Water Area	>5,000 Ft <sup>2</sup> of Bathing and Swimming Water Area
Adhesive compress strips (band aid type)	25	50	100
Sterile gauze dressings (sponge 2"x 2")	10	15	25
Sterile gauze dressings (sponge 2"x 3")	10	15	25
Sterile gauze dressings (sponge 4"x 4")	10	15	25
Sterile gauze roller bandage (1" wide)	4	8	15
Sterile gauze roller bandage (3" wide)	4	8	15
Sterile eye dressing pads (box)	1	1	1
Triangle bandages	2	4	6
Waterproof tape (1"x 5 yards)	1	1	1
Bandage scissors	1	1	1
Tweezers	1	1	1
Blanket	1	1	1
Instant cold pack	5	5	5
Disposable protective face shield	1	1	1
Disposable protective gown	2	4	6
Disposable Gloves (box)	1	1	1
Pocket resuscitation mask	2	4	6
Liquid hand soap or hand sanitizer	1	1	1
First Aid Treatment Policies and Procedures	1	1	1

# Appendices C & D

## CHEMICAL WATER QUALITY STANDARDS

Appendix C.  
Swimming pools  
Wading pools  
Aquatic  
recreation  
facilities

	Minimum	Ideal	Maximum	
			Indoor pools	Outdoor Pools
<b>Free chlorine residual (parts per million (ppm))</b>	1.0	2.0-4.0	10.0	10.0
<b>Combined chlorine (ppm)</b>	None	None	0.2	0.2
<b>Bromine (ppm)</b>	2.0	4.0-6.0	10.0	10.0
<b>pH</b>	7.2	7.4-7.6	7.8	7.8

Appendix D.  
Hot tubs  
and SPAs

	Minimum	Ideal	Maximum
<b>Free chlorine residual (parts per million (ppm))</b>	2.0	3.0-5.0	10.0
<b>Combined chlorine (ppm)</b>	None	None	0.2
<b>Bromine (ppm)</b>	2.0	4.0-6.0	10.0
<b>pH</b>	7.2	7.4-7.6	7.8

# Appendix E. CHECKLIST FOR PUBLIC RECREATIONAL BATHING FACILITIES



## APPENDIX E. Checklist for Public Recreational Bathing Facilities

New Jersey Department of Health  
Public Health and Food Protection Program

### CHECKLIST FOR PUBLIC RECREATIONAL BATHING FACILITIES

Municipality	Local Health Authority	Date
Name of Public Recreational Bathing Facility		
Dates of Operation	Type of PRB Facility	
PRB Facility Location	Phone Number	Special Exempt <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Both
Owners Name and Address	Phone Number	
Certified Laboratory	Phone Number	Date of Last Sample
Trained Pool Operator	Email Address	Phone Number
Codes:    X-Compliant    P-Pending    N/A-Not Applicable		
<b>PAPERWORK</b>		
TPO Certification No. and Exp. Date		Log Book
Lifeguard Certifications Current		Bonding and Grounding (5-year cert.)
Pro CPR Certifications Current		Bonding and Grounding (Town)
Aquatics Facility Plan		CB-20 completed and submitted
Water Sample(s) Results		MSDS sheets for all chemicals
Sanitary Surveys (N.J.A.C. 8:26-7.15)		Physical Hazards Inspection
<b>GENERAL LAYOUT</b>		
Emergency Phone Numbers		No Lifeguard on Duty Sign
Pool/Natural Waters Rules Sign		Adult Supervision Sign
No Diving Signs		Special Exempt Signs
Caution Chemical Sign		Spa Clock
No Smoking Sign (Chem. Room)		Spa Rules
Depth Markings		Diving Rules
Entrance(s) Secure		Cliff Jumps < 15'
Floats and Fixed Platforms Permitted with LHA Approval		Equipment for continuous disinfect all types pool water and meet N.J.A.C. 8:26-3.22
Diving stands, boards, ladders, stairs, all equipment maintained		Pool chemicals stored, handled and used per manufacturer's instructions
Water slides conform to CPSC and approved by LHA and/or NJDCA		Anti-entrapment drain covers installed, all documentation on site
Rope drops, cliff jumping, and aquatic play equipment meet N.J.A.C. 8:14A-12		Pool Floor (Clean and Visible)
Surface area (Pool sq')		Turnover Rate(s) (Pool)
Volume (Pool)		Pump Maximum Flow Rate(Pool)



# Did the New Jersey Public Recreational Bathing Rule actually change?

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