



Hendricks County Pool School

April 9, 2019



Public Health
Prevent. Promote. Protect.

Hendricks County Health Department

Agenda

9:00 AM	Sign-In & Welcome
9:15 AM	Introduction to our program
9:30 AM	Rules & Reasons for closure
10:00 AM	Incident Reports & Operating Records
10:15 AM	Break
10:30 AM	Opening inspections (Safety & Health)
10:45 AM	When & How to add chemicals
11:00 AM	Testing– Using a test kit
11:45 AM	Questions & Answers
12:00 PM	Adjourn, Thank you!

Inspections and Permits



Public Health
Prevent. Promote. Protect.
Hendricks County Health Department

Hendricks County Health Department Swimming Pool Inspection Form

Inspection based on Indiana State Department of Health 410 IAC 6-2.1 and
Hendricks County Public Pool and Spa Ordinance 2003-27

Pool Name: _____ Permit Number: _____
 Size: under 2000 sq. ft 2000 sq. ft. and over Pool Type: _____
 Purpose: Routine Follow-up Opening Complaint # _____

Pool Water Chemistry (Section 30)	Sat.	Unsat.	Lifesaving and Safety Equipment (Section 34)	Sat.	Unsat.	NA
Operating Records	<input type="checkbox"/>	<input type="checkbox"/>	Life Pole	<input type="checkbox"/>	<input type="checkbox"/>	
Test Kit	<input type="checkbox"/>	<input type="checkbox"/>	Ring Buoy with Rope	<input type="checkbox"/>	<input type="checkbox"/>	
Free Chlorine _____ ppm	<input type="checkbox"/>	<input type="checkbox"/>	Spine Board with Straps and Head Immobilizer	<input type="checkbox"/>	<input type="checkbox"/>	
Combined Chlorine _____ ppm	<input type="checkbox"/>	<input type="checkbox"/>	First Aid Kit with Two (2) Blankets	<input type="checkbox"/>	<input type="checkbox"/>	
pH _____	<input type="checkbox"/>	<input type="checkbox"/>	Telephone	<input type="checkbox"/>	<input type="checkbox"/>	
Total Alkalinity _____ ppm	<input type="checkbox"/>	<input type="checkbox"/>	Depth Markings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calcium Hardness _____ ppm	<input type="checkbox"/>	<input type="checkbox"/>	Transition Line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanuric Acid _____ ppm	<input type="checkbox"/>	<input type="checkbox"/>				
Disinfectant Type _____			Lifeguards (Section 35)	Sat.	Unsat.	NA
			Lifeguard(s) Present	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Chemical Storage (Section 33)	Sat.	Unsat.	Lifeguard Platform or Chair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All Items at Least 6 Inches off Floor	<input type="checkbox"/>	<input type="checkbox"/>				
Sanitary Facilities (Section 29)	Sat.	Unsat.	Water Quality / Cleaning (Sections 31 & 37)	Sat.	Unsat.	NA
Supplies and Water	<input type="checkbox"/>	<input type="checkbox"/>	Main Drain	<input type="checkbox"/>	<input type="checkbox"/>	
Safe and Sanitary Condition	<input type="checkbox"/>	<input type="checkbox"/>	Inside Surfaces	<input type="checkbox"/>	<input type="checkbox"/>	
Warning Signs (Section 36)	Sat.	Unsat.	Skimmers / Gutters	<input type="checkbox"/>	<input type="checkbox"/>	
User Sanitation and Safety Rules	<input type="checkbox"/>	<input type="checkbox"/>	Temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning Signs	<input type="checkbox"/>	<input type="checkbox"/>				
Bacteria Samples:	/	/	/	/	/	/
(Section 31)	S	U	S	U	S	U

Section/Repeat	Violation Narrative
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	
<input type="checkbox"/>	

Health Department : _____ Phone: (317) 745-9217
 Copy of Report Received by: _____ Date: _____



Public Health
Prevent. Promote. Protect.

Hendricks County Health Department 355 South Washington Street, #210 Danville, Indiana 46122

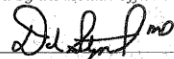
HEREBY ISSUES
OPERATING PERMIT FOR

Name of Pool/Spa: **Cambria Suites Pool**
 Address: **6014 Gateway Dr
Plainfield, IN 46168**
 Owner: **Venkatta R Nattam**
 Duration of Permit: **January 1, 2015 - December 31, 2015**
 Permit: **2015-118**



For the purpose of operating a Public Pool or Spa according to the terms and definitions of the
Hendricks County Public Pool and Spa Ordinance 2003-27.

This permit is not transferable and may be suspended or revoked by the Health Officer.

_____ Date _____ Approved 
 Environmental Health Specialist David Stopperich, MD
 Hendricks County Health Officer

Pool Rules

Public and Semi-Public Swimming Pools Rule

410 IAC 6-2.1



Indiana State Department of Health
Environmental Public Health Division
2 N. Meridian St., 5-E
Indianapolis, IN 46204

Revision Effective: August 26, 2010

2018 Model Aquatic Health Code *Code Language*



U.S. Department of Health and Human Services
Centers for Disease Control and Prevention

3rd Edition, July 2018

1-2018-001

Construction Code

ARTICLE 20. SWIMMING POOL CODE

Rule 1. Indiana Swimming Pool Code (Repealed)

(Repealed by Fire Prevention and Building Safety Commission; filed Aug 14, 1989 9:00 a.m.: 13 IR 81)

Rule 1.1. General Provisions and Definitions

675 IAC 20-1.1-1 Title and availability

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

Sec. 1. (a) This article shall be known as the Indiana Swimming Pool, Spa and Water Attraction Code, third edition. Whenever the term "this code" is used in this article, it shall mean the Indiana Swimming Pool, Spa and Water Attraction Code, third edition.

(b) The Indiana Swimming Pool, Spa and Water Attraction Code is available at the Department of Homeland Security, Code Services Section, Indiana Government Center South, 302 West Washington Street, Room W246, Indianapolis, Indiana 46204. *(Fire Prevention and Building Safety Commission; 675 IAC 20-1.1-1; filed Aug 14, 1989, 9:00 a.m.: 13 IR 38, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document 889-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530; readopted filed Sep 21, 2007, 9:20 a.m.: 20071010-IR-675070888RFA; readopted filed Oct 10, 2007, 9:16 a.m.: 20071031-IR-675070888RFA; filed Mar 25, 2011, 10:19 a.m.: 20110420-IR-675090789RFA; readopted filed Aug 7, 2013, 8:51 a.m.: 20130904-IR-675130181RFA)*

675 IAC 20-1.1-2 Definitions: general

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

Sec. 2. For the purpose of this code, the definitions in this rule apply throughout this article. *(Fire Prevention and Building Safety Commission; 675 IAC 20-1.1-2; filed Aug 14, 1989, 9:00 a.m.: 13 IR 38, eff Sep 1, 1989 [IC 4-22-2-36 suspends the effectiveness of a rule document for thirty (30) days after filing with the secretary of state. LSA Document 889-17 was filed Aug 14, 1989.]; readopted filed Sep 11, 2001, 2:49 p.m.: 25 IR 530; readopted filed Sep 21, 2007, 9:20 a.m.: 20071010-IR-675070888RFA; readopted filed Oct 10, 2007, 9:16 a.m.: 20071031-IR-675070888RFA; readopted filed Aug 7, 2013, 8:51 a.m.: 20130904-IR-675130181RFA)*

675 IAC 20-1.1-3 Definitions "A"

Authority: IC 22-13-2-2

Affected: IC 22-12; IC 22-13; IC 22-15; IC 36-7

Sec. 3. (a) "Abrasion hazard" means a sharp or rough surface that could cause injury under normal use.

(b) "Accessible" means, when applied to a fixture, connection, appliance, or equipment, having access thereto, but may require the removal of an access panel, door, or similar obstruction. "Readily accessible" means direct access without the necessity of removing any panel, door, or similar obstruction.

(c) "Agitation" means the mechanical or manual movement to dislodge the filter aid and dirt from the filter element.

(d) "Airbreak" means a physical separation that may be a low inlet into the indirect waste receptor from the fixture, appliance, or device indirectly connected.

(e) "Air bump assist backwash" means, in a diatomite type filter, the compressing of a volume of air in the filter effluent chamber (by means of an air compressor or by the water pressure from the recirculating pump) that, when released, rapidly decompresses and forces water in the filter tank through the elements in a reverse direction dislodging the filter aid and accumulated dirt and carrying them to waste.

(f) "Airgap" means the unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet conveying water or waste to a tank, plumbing fixture receptor, or other device and the flood level rim of the receptacle.

(g) "Air induction system" means a system whereby a volume of air (only) is induced into hollow ducts built into a spa floor,

Any alterations, not like for like, to a pool must be submitted to the Indiana Department of Homeland Security, Division of Fire and Building Safety (Plan Review Branch) prior to construction.

[Construction Code](#)

[Department of Homeland Security](#)

[Fire Prevention & Building Safety Commission](#)

Inspections on Website

Home / Hendricks County x
www.co.hendricks.in.us
Apps ★ Bookmarks ESPN: The Worldwide

HENDRICKS COUNTY
I N D I A N A

ONLINE SERVICES SEARCH

HOME DEPARTMENTS RESIDENTS TAXES ARCHIVES

Hendricks County History Museum

QUICK LINKS

- Online Bill Pay
- Historical Archives
- Agendas/Minutes
- Property Tax
- Election Info
- eNotifications
- Submit a Request
- GIS Services

NEWS & NOTICES

Absentee and Satellite Voting
Published: February 25, 2016

Meeting Schedule
Published: February 17, 2016

Road Closures in Hendricks County
Published: February 17, 2016
The following roads are closed due to construction.

Department Phone Numbers
Published: February 17, 2016

Legal Notices
Published: February 17, 2016

More like this

EVENTS

MARCH 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

County Council Meeting
April 14 at 2:00 PM at Hendricks County Government Center

Benefits Committee Workshop
May 12 All Day at Hendricks County Government Center

County Council Meeting
May 12 at 2:00 PM at Hendricks County Government Center

More like this

9:04 AM
3/28/2016

www.co.hendricks.in.us/health_pool_spa.html

The screenshot shows a web browser window displaying the website for Hendricks County, Indiana. The browser's address bar shows the URL: www.co.hendricks.in.us/topic/index.php?topicid=69&structureid=16. The website header features the Hendricks County logo and navigation links for HOME, DEPARTMENTS, RESIDENTS, TAXES, and ARCHIVES. A search bar is also present.

The main content area is titled "Pools and Spas" and includes a breadcrumb trail: [Home](#) > [Departments](#) > [Hendricks County Health Department](#) > [Pools and Spas](#). The page is divided into several sections:

- CONTACT US:** Provides contact information for the Health Department, including the address (355 S Washington St, Danville, IN 46122), phone number (317) 745-9217, fax number (317) 745-9218, and email address. It also lists staff directory and office hours (M - F 8:00 a.m. - 4:00 p.m.).
- Important Phone Numbers:** Lists specific numbers for Nursing (317-745-9222), Vital Records (317-718-6022), Healthy Families (317-745-9426), Health Educator (317-745-9372), and Public Health Preparedness (317-745-9214).
- Pool & Spa Inspection Reports:** Lists services such as "Pool & Spa Inspection Reports" and "Approved Drain Covers and Safety Vacuum Release Systems".
- Pool Rules and Regulations:** Includes links to "Pool Ordinance" and "Indiana State Department of Health Swimming Pool Rules".
- Pool and Spa:** Provides links to "Pool and Spa Plan Review Packet" and "Pool and Spa Permit Annual Application".
- Information:** Lists various resources including "Frequently Asked Questions - Swimming Pools", "ISDH Swimming Pool Operating Records", "How to Clean Up Body Fluid Spills on Pool Surfaces", "CDC Healthy Swimming", "Fecal Accident Response", "Steps for Prevention of Recreational Water Illness", "Injury/Incident Report", "Pool and Spa Safety Publications", "Maximum Bather Load", "Swimming Pool Contamination Incident Record", and "Indiana Certified Microbiology Laboratories".

The bottom of the screenshot shows the Windows taskbar with the system clock indicating 9:06 AM on 3/28/2016.

Inspection Frequency

- All routine inspections are unannounced
- Indoor pools are inspected once a month
- Outdoor pools are inspected 2X per month when facilities are open
- Or as necessary if facility continues to have issues
- Follow-up inspections are done as needed and we like to stay on site if possible to reopen pools



Hendricks County Statistics

- 127 Pools in Hendricks County
- 88 Pools, 30 Waders, 7 Spas, and 2 Therapy Pools
- 1168 - Total inspections (divided among 8 inspectors and summer interns)
- Full time inspectors are Certified Pool Operators (CPO)
- 263 Total closures in 2018 (22.5%)



Summary: Reasons for closure

- Disinfectant (Chlorine or Bromine)
- pH
- Water Clarity
- Bacteriological Samples
- Main Drains (not visible, any piece broken, missing screw, etc...)
- Cyanuric Acid
- Lifeguard Requirements
- Chemical Feeders Not Operational
- Spa Exceeds 104 Degrees Fahrenheit
- Fecal Accident
- Department Determination (health/safety hazard or disease)

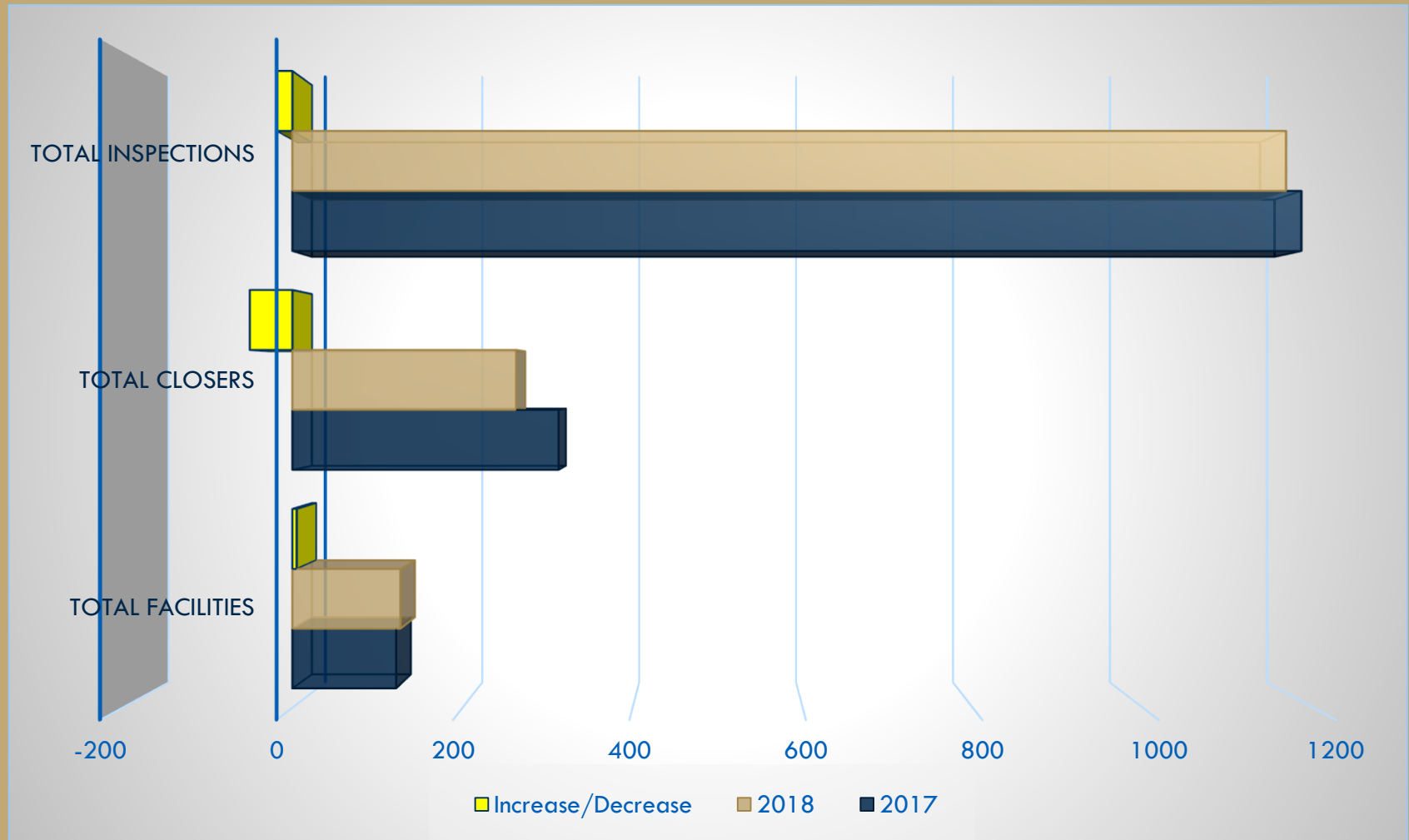
Follow-up Procedures

Hendricks County Health Department will follow-up on:

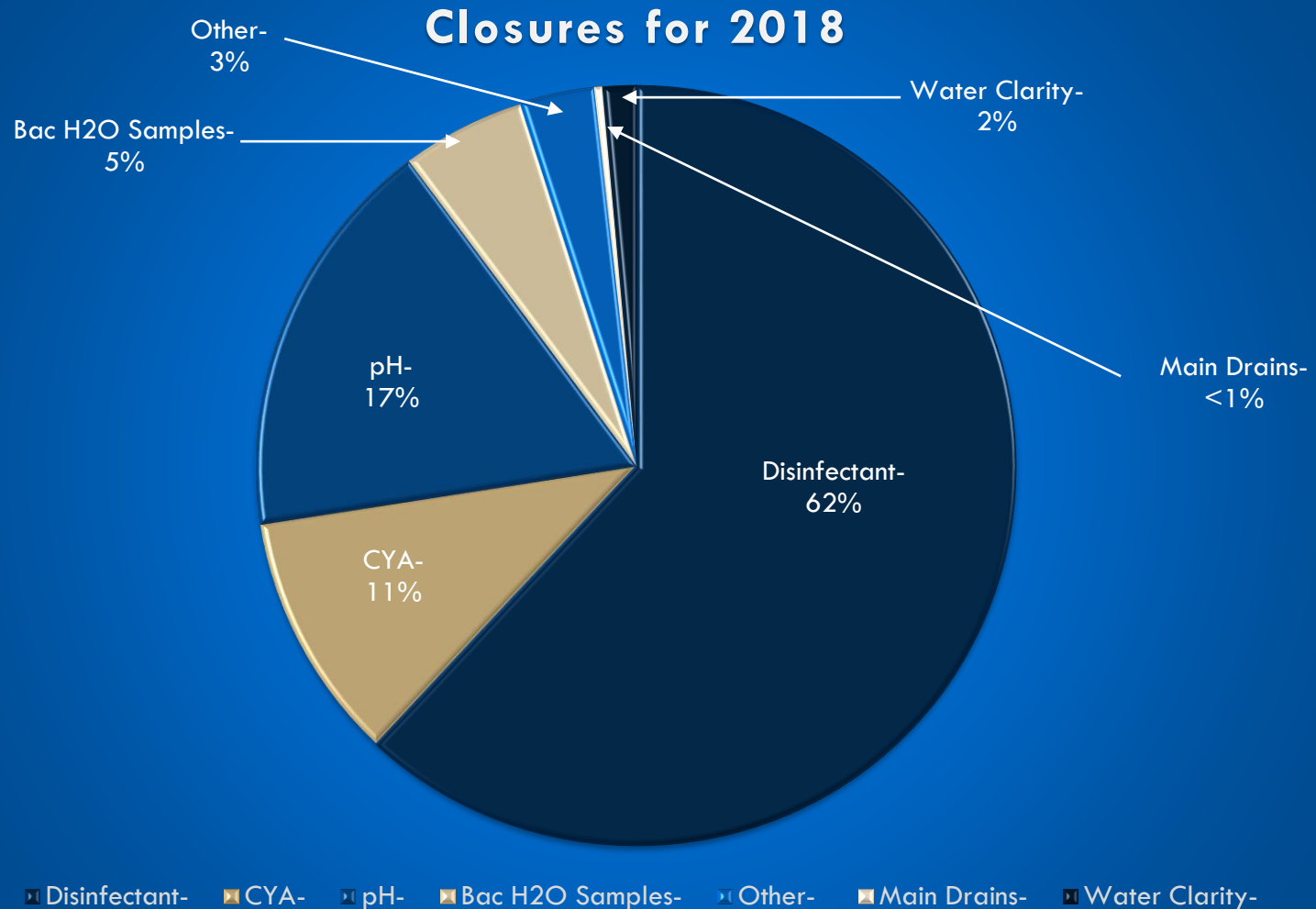
1. Any disinfectant lower than minimum levels stated in Indiana State Department of Health 410 IAC 6-2.1 (the Pool Code)
2. Any main drains that are broken or missing

Operators may re-open facility on their own once violation(s) is/are corrected for any **other** closable offence.

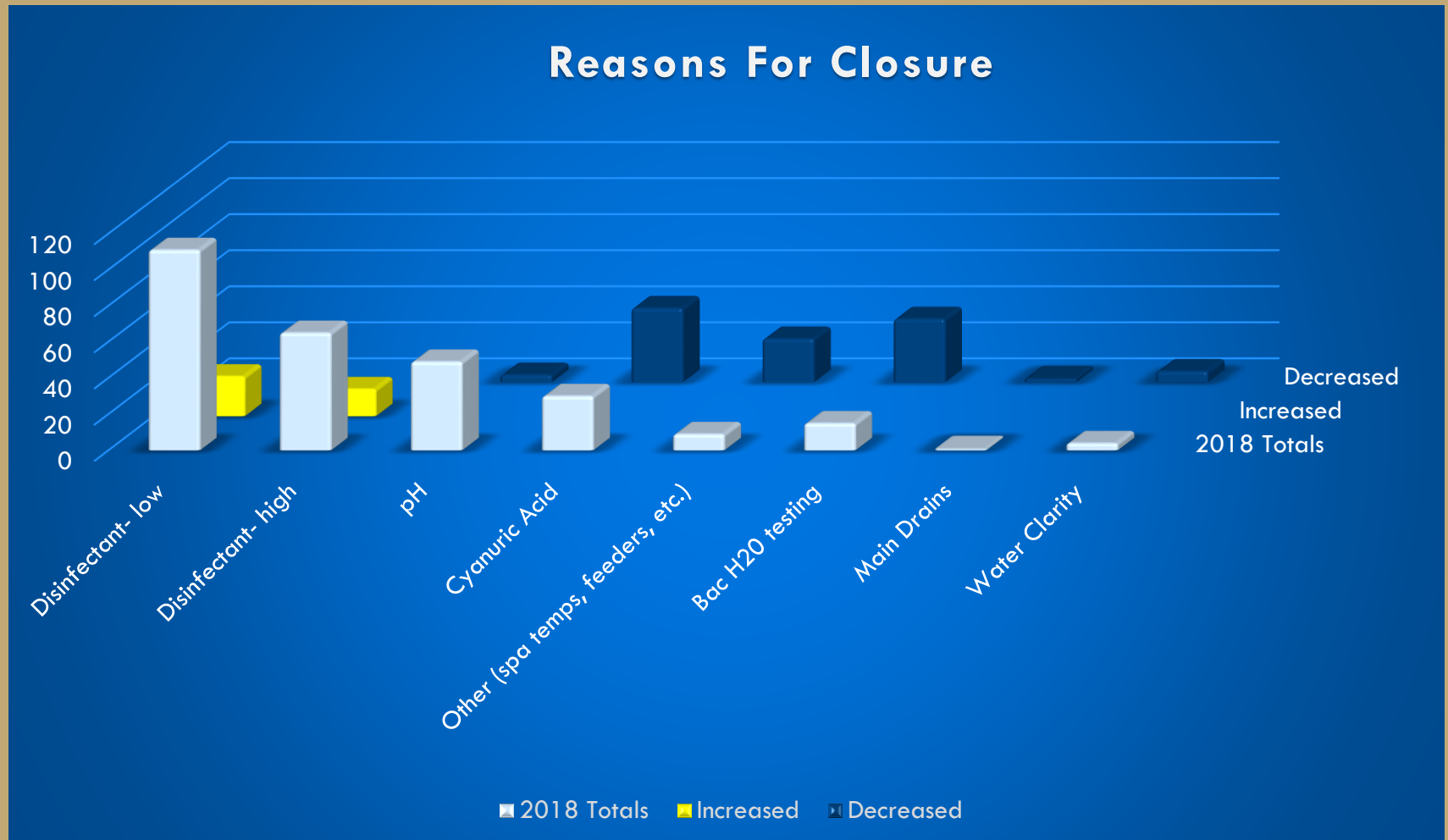
Hendricks County Statistics



Hendricks County Closure Statistics



2018 Pool Closings - Hendricks



Post a sign when...

A rectangular sign with a black border. The top half is white with the word "POOL" in bold black letters. The bottom half is blue with a white scalloped border at the top and the word "CLOSED" in bold black letters.

POOL

CLOSED

A rectangular sign with a white background. At the top, the word "CLOSED" is written in large white letters on a red rectangular background. Below this, the text "BY HENDRICKS COUNTY HEALTH DEPARTMENT" is written in bold black letters. The phone number "317-745-9217" and the website "www.co.hendricks.in.us" are also listed in black text.

CLOSED

**BY HENDRICKS COUNTY
HEALTH DEPARTMENT**

317-745-9217

www.co.hendricks.in.us

Anyone else claustrophobic????



Disinfection levels (see section 1 in pool op training manual)

Pool Type	Chlorine	Bromine
<i>Wader</i>	3.0 – 7.0 ppm	4.0 – 10.0 ppm
<i>Spa</i>	2.0 – 7.0 ppm	4.0 – 10.0 ppm
<i>Water slide plunge pools & Wave pools</i>	2.0 – 7.0 ppm	3.0 – 10.0 ppm
<i>All other pools</i>	1.0 – 7.0 ppm	2.0 – 10.0 ppm

Chlorine Characteristics (see section 1 in pool op training manual)

CHARACTERISTICS OF CHLORINES

	GAS CHLORINE	SODIUM HYPOCHLORITE	CALCIUM HYPOCHLORITE	LITHIUM HYPOCHLORITE	DICHLOR	TRICHLOR
% AVAILABLE CHLORINE	100%	12-15%	65-70%	35%	56% OR 62%	90%
pH EFFECT	Lowers (pH <1.0)	Raises (pH 13.0)	Raises (pH 11.8)	Raises (pH 10.7)	Neutral (pH 6.9)	Lowers (pH 2.9)
LOST TO SUNLIGHT	YES	YES	YES	YES	NO	NO
PHYSICAL APPEARANCE	Gas	Liquid	Granular & Tablets	Powder	Granular	Granular & Tablets



Water Chemistry

(see section 1 in pool op training manual)

What should your pH be?

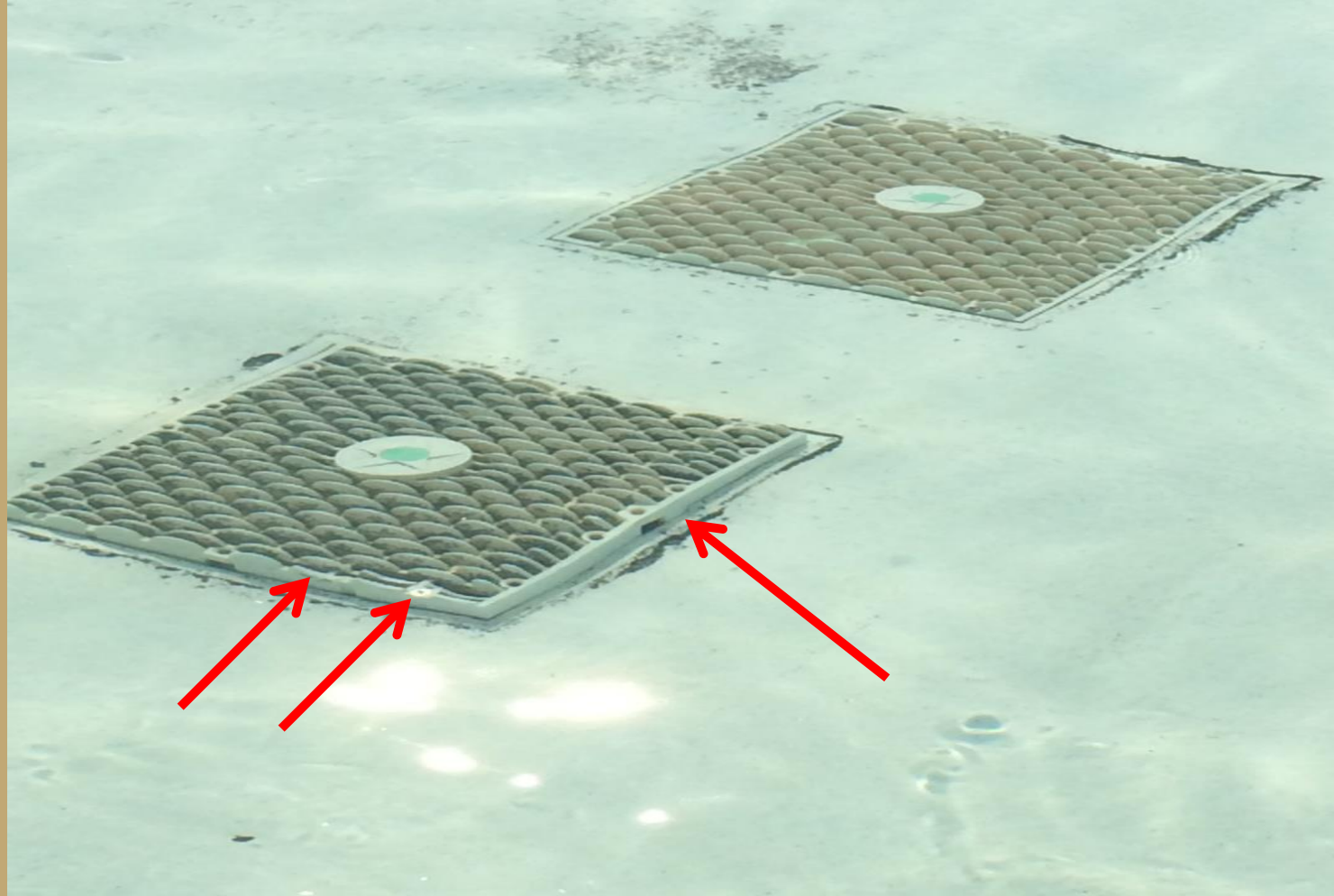
pH	7.2 – 7.8
Ideal	7.4 – 7.6
Closed	<6.8 or = / greater than 8.0

Water Chemistry...

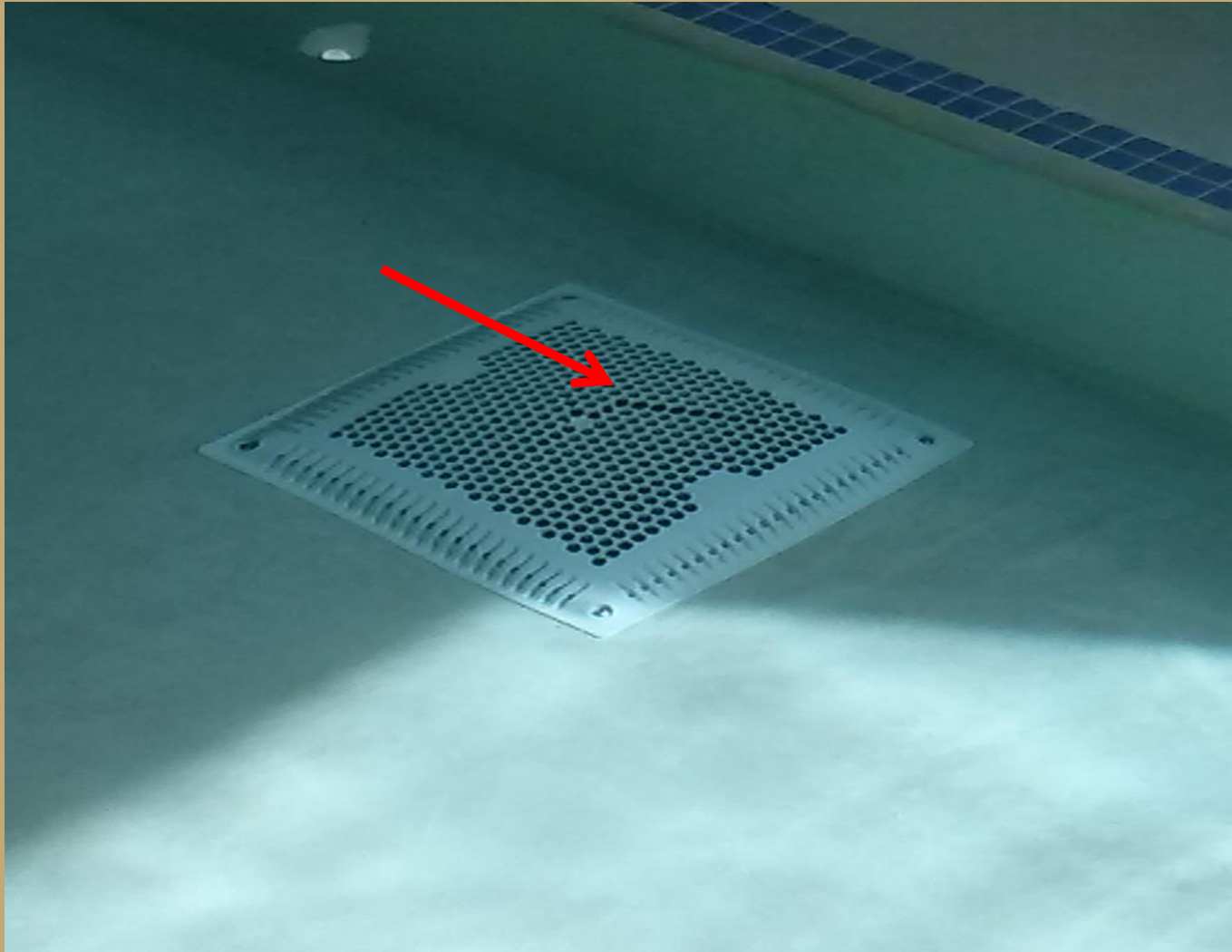
Pool Chemistry	Range	Fix
Total Alkalinity	80 ppm – 120 ppm	Increase- add Sodium Bicarbonate (soda ash or baking soda) Decrease- add Sodium Bisulfate (acid)
Combined Chlorine	Less than .50 ppm	Drain and fill with fresh water Must shock if greater (Combined Chlorine x 10)
Cyanuric Acid	May not exceed 60 ppm	Drain and fill to decrease

****Pool shall be closed for @ least 1 hour following manual addition of chemicals directly to pool water!***

What's wrong with this picture?



What's Wrong with this picture?



Water Quality

- Sufficient clarity at all times to visibly see main drain or a 6 inch black disc from deck
- Spas shall not exceed 104 degrees Fahrenheit



Incidents



Environmental Public Health
2 North Meridian Street, 5-E
Indianapolis, IN 46204

Swimming Pool Contamination Incident Record

410 IAC 6-2.1-38 requires that any fecal event occurring in the pool be recorded. This record shall include the date and time, whether it involved formed stool or diarrhea, and the free chlorine and pH levels at the time of observation of the event. Before reopening the pool, the free chlorine and pH levels, the procedures followed in response to the fecal accident, including the process used to increase chlorine levels (if required), and the chlorine contact time must also be recorded. This record shall be kept for a minimum of one year, and be available upon request by the department.

Date of incident: _____ Time: _____

Name of pool facility _____

Name of person recording incident _____

Contaminant was: _____ Full stomach Vomit _____ Solid fecal _____ Diarrhea

_____ Blood in the pool water* _____ Body fluid on pool deck surfaces*

Person responsible for the incident _____ Ill _____ Not ill _____ Unknown _____ Not found

Free disinfectant (chlorine or bromine) at the time of the event: _____ pH: _____

Pool was closed for _____ minutes/hours

Procedure**:

Chlorine level was maintained at _____ ppm for _____ minutes/hours (contact time)

Free disinfectant residual prior to re-opening _____ ppm
(Cannot exceed 7 ppm Chlorine)

pH prior to re-opening _____

* Not required to record per 410 IAC 6-2.1-38(a)(7)

** Include process used to increase chlorine levels (if required).

(8-26-10)

Make a report for each occurrence that:

- (1) Results in death;
- (2) Requires resuscitation;
- (3) Results in transportation to a hospital or other facility for medical treatment; or
- (4) Results in an illness connected to the water quality at the pool
- (5) The injury/illness report shall be forwarded to the HD within 10 days

Fecal accidents (see section 2 in pool op training manual)

Solid stool & full stomach vomit

- ❑ Everyone out!
- ❑ Clean out matter (do not use vacuum)
- ❑ Test pool, add disinfectant (if needed) and reopen (if proper disinfection levels)
- ❑ Disinfect all equipment used
- ❑ Document

Nonsolid stool

- ❑ Everyone out!
- ❑ Clean out matter-Disinfect all equipment used (do not use vacuum)
- ❑ **To drain or Not to drain?**
- ❑ Document



Why Disinfect?!

Germ Inactivation Time for Chlorinated Water*

Germ	Time
E. coli O157:H7 (Bacterium)	Less than 1 minute
Hepatitis A (Virus)	About 16 minutes
Giardia (Parasite)	About 45 minutes
Crypto (Parasite)	About 15,300 minutes or 10.6 days†

*1 parts per million (ppm) or mg/L free chlorine at pH 7.5 or less and a temperature of 77°F or higher.

†Shields JM, Hill VR, Arrowood MJ, Beach MJ. Inactivation of *Cryptosporidium parvum* under chlorinated recreational water conditions. *J Water Health* 2008;6(4):513-20.

Records of operation



SWIMMING POOL RECORD OF OPERATION

State Form 12279 (RS / 4-11)
INDIANA STATE DEPARTMENT OF HEALTH

Pursuant to 410 IAC 6-2.1 and 38, this form must be logged daily and retained for one (1) year.

Name of facility	Week ending date (month, day, year)	Type of pool (indoor, outdoor, wading, wave, spa, waterslide, other pool)
------------------	-------------------------------------	---

Day	DAILY						WEEKLY						Name of Person Logging Entry		
	Disinfectant Residual Cl ₂ , Br ₂ (ppm)			pH 7.2 – 7.8		Water Temperature	Combined Chlorine (TC-FC=CC)		Total Alkalinity	Cyanuric Acid	Bacteriologic Test			Breakpoint chlorination / Superoxidation CC ≥ 5 ppm	
	Opening	Second	Third	Opening	Second	Spa ≤104°F	First	Second	80-120 ppm	<60 ppm	Sample	Result		Amount Added	Cl ₂ / non-Cl ₂
Sunday															
Monday															
Tuesday															
Wednesday															
Thursday															
Friday															
Saturday															

Name of powder / solution use for disinfection

Day	Number of Bathers	Flow Rate (gpm)	Bottom / Walls Cleaned?	Fresh Water Added (gallons)	Filter Back Wash	Operating Period of Water Recirculation (What time of day did recirculation operate – hours?)	Chemical Usage Record all chemicals used in pounds / gallons.				Remarks / Comments <i>Fecal or vomit accident, maintenance and malfunction of equipment, shutdown of filters or disinfecting equipment, power failures, sickness, injuries or any other unusual conditions</i>
							Acid	Soda Ash	Algaecide	Other	
Sunday											
Monday											
Tuesday											
Wednesday											
Thursday											
Friday											
Saturday											

Additional comments

Records of operation

Logged daily (keep minimum of 1 year)

Must contain a minimum of:

- ❑ Disinfectant residuals & combined (**2x per day**)
- ❑ pH (**2x per day**)
- ❑ Total Alkalinity (**1x per week**)
- ❑ Combined Chlorine (**2x per week**)
- ❑ Cyanuric Acid (**1x per week**)

Record any time pool is closed

Amounts of chemicals used


Amount of water added

15 Minutes



Opening Inspections

- Sampling shall start **at least one (1) week prior to opening** of the pool
- **Satisfactory** water sample prior to opening
- Must be **no violations** on inspection report to receive permit



Hendricks County Health Department
Swimming Pool Inspection Form

Inspection based on Indiana State Department of Health 410 IAC 6-2.1 and
Hendricks County Public Pool and Spa Ordinance 2003-27

Hendricks County Health Department

Pool Name: XXX Pool Permit Number: 2015-XX

Size: under 2000 sq. ft 2000 sq. ft. and over Pool Type: Outdoor Pool

Purpose: Routine Follow-up Opening Complaint # _____

Pool Water Chemistry (Section 30)	Sat.	Unsat.	Lifesaving and Safety Equipment (Section 34)	Sat.	Unsat.	NA
Operating Records	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Life Pole	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Test Kit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ring Buoy with Rope	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Free Chlorine <u>4.2</u> ppm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Spine Board with Straps and Head Immobilizer	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Combined Chlorine <u>.38</u> ppm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	First Aid Kit with Two (2) Blankets	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
pH <u>7.3</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Telephone	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Total Alkalinity <u>95</u> ppm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Depth Markings	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calcium Hardness <u>290</u> ppm	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Transition Line	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanuric Acid <u>15</u> ppm	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Disinfectant Type <u>sodium hypo</u>			Lifeguards (Section 35)			
Chemical Storage (Section 33)	Sat.	Unsat.	Lifeguard(s) Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
All Items at Least 6 Inches off Floor	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Lifeguard Platform or Chair	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sanitary Facilities (Section 29)	Sat.	Unsat.	Water Quality /Cleaning (Sections 31 & 37)	Sat.	Unsat.	NA
Supplies and Water	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Main Drain	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Safe and Sanitary Condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Inside Surfaces	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Warning Signs (Section 36)	Sat.	Unsat.	Skimmers / Gutters	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
User Sanitation and Safety Rules	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Warning Signs	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
Bacteria Samples: <u>4/30/15</u>						
(Section 31)	<input checked="" type="checkbox"/>	<input type="checkbox"/>				

Section/Repeat	Violation Narrative
<input type="checkbox"/> <input type="checkbox"/>	<u>No violations at time of inspection</u>
<input type="checkbox"/> <input type="checkbox"/>	<u>Hendricks County Pool permit has been issued</u>
<input type="checkbox"/> <input type="checkbox"/>	
<input type="checkbox"/> <input type="checkbox"/>	
<input type="checkbox"/> <input type="checkbox"/>	
<input type="checkbox"/> <input type="checkbox"/>	
<input type="checkbox"/> <input type="checkbox"/>	

Health Department: J. Devin Brennan, CFO Phone: (317) 745-9217

Copy of Report Received by: Mark Dallas Date: 5-1-15

Other opening requirements...

- ❑ Operating records started for all pools
- ❑ Provide DPD test kit that stays on site
- ❑ All items stored 6 inches off of floor
- ❑ Toilet paper/covered waste receptacles
- ❑ Soap (no bar), hand drying provisions
- ❑ Hot and cold water @ hand sinks and showers (90° F - 120° F)
- ❑ All signs (other slide)
- ❑ Lifesaving equipment (other slide)
- ❑ Main drains, clean inside surfaces and skimmers/gutters operational
- ❑ Depth Markers




Water Samples

1 water sample required weekly

Sampling shall start at least (1) week prior to opening

Health Department must receive sample reports from a state-approved lab

Closed if 2 consecutive unsatisfactory or 3 in a 6 week period



Hendricks County Health Department
Swimming Pool Inspection Form

Inspection based on Indiana State Department of Health 410 IAC 6-2.1 and
Hendricks County Public Pool and Spa Ordinance 2003-27

Public Health
Prevent. Promote. Protect.
Hendricks County Health Department

Pool Name: _____ Permit Number: _____
 Size: under 2000 sq. ft. 2000 sq. ft. and over Pool Type: _____
 Purpose: Routine Follow-up Opening Complaint # _____

<u>Pool Water Chemistry (Section 30)</u>	Sat.	Unsat.	<u>Lifesaving and Safety Equipment (Section 34)</u>	Sat.	Unsat.	NA
Operating Records	<input type="checkbox"/>	<input type="checkbox"/>	Life Pole	<input type="checkbox"/>	<input type="checkbox"/>	
Test Kit	<input type="checkbox"/>	<input type="checkbox"/>	Ring Buoy with Rope	<input type="checkbox"/>	<input type="checkbox"/>	
Free Chlorine _____ ppm	<input type="checkbox"/>	<input type="checkbox"/>	Spine Board with Straps and Head Immobilizer	<input type="checkbox"/>	<input type="checkbox"/>	
Combined Chlorine _____ ppm	<input type="checkbox"/>	<input type="checkbox"/>	First Aid Kit with Two (2) Blankets	<input type="checkbox"/>	<input type="checkbox"/>	
pH _____	<input type="checkbox"/>	<input type="checkbox"/>	Telephone	<input type="checkbox"/>	<input type="checkbox"/>	
Total Alkalinity _____ ppm	<input type="checkbox"/>	<input type="checkbox"/>	Depth Markings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Calcium Hardness _____ ppm	<input type="checkbox"/>	<input type="checkbox"/>	Transition Line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanuric Acid _____ ppm	<input type="checkbox"/>	<input type="checkbox"/>				
Disinfectant Type _____			<u>Lifeguards (Section 35)</u>	Sat.	Unsat.	NA
<u>Chemical Storage (Section 33)</u>	Sat.	Unsat.	Lifeguard(s) Present	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
All Items at Least 6 Inches off Floor	<input type="checkbox"/>	<input type="checkbox"/>	Lifeguard Platform or Chair	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<u>Sanitary Facilities (Section 29)</u>	Sat.	Unsat.	<u>Water Quality/Cleaning (Sections 31 & 37)</u>	Sat.	Unsat.	NA
Supplies and Water	<input type="checkbox"/>	<input type="checkbox"/>	Main Drain	<input type="checkbox"/>	<input type="checkbox"/>	
Safe and Sanitary Condition	<input type="checkbox"/>	<input type="checkbox"/>	Inside Surfaces	<input type="checkbox"/>	<input type="checkbox"/>	
<u>Warning Signs (Section 36)</u>	Sat.	Unsat.	Skimmers / Gutters	<input type="checkbox"/>	<input type="checkbox"/>	
User Sanitation and Safety Rules	<input type="checkbox"/>	<input type="checkbox"/>	Temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Warning Signs	<input type="checkbox"/>	<input type="checkbox"/>				
<u>Bacteria Samples:</u>						
(Section 31)	S	U	S	U	S	U
Section/Element	Violation Narrative					
<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/>	<input type="checkbox"/>					
<input type="checkbox"/>	<input type="checkbox"/>					

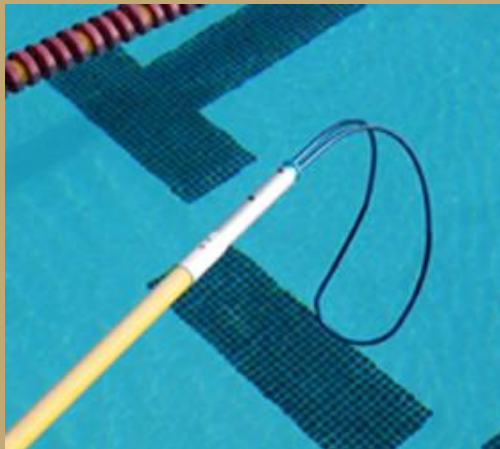
Health Department : _____ Phone: (317) 745-9217
 Copy of Report Received by: _____ Date: _____

Lifesaving and safety equipment

**Spine board
w/ head
immobilizer**



Depth markings



**Life pole/
shepherd's crook**



Transition line (greater than 5ft)

Lifesaving and safety equipment...

Telephone within
200 ft



US Coast
Guard
approved
ring buoy



First aid kit w/ 2-blankets
Expired items should be
replaced (Amazon is a good
option for refills)

Warning signs



WHIRLPOOL ETIQUETTE

- Please take a cleansing shower before entering, and refrain from using body lotions or oils.
- Pregnant women, children (under 18), or persons with heart disease, diabetes, and high or low blood pressure should refrain from using the whirlpool except under advice of a physician.
- Avoid use while under the influence of alcohol, tranquilizers, or other drugs that are determined dangerous when used under conditions of high heat and humidity.
- Exposure greater than ten (10) minutes may result in drowsiness, nausea, or fainting. If you wish to return for another brief stay, do so after cooling down.
- Diving, jumping, playing and exercise in the whirlpool is prohibited.
- Please wait five (5) minutes after exercising before entering whirlpool.
- Users should refrain from submerging to the bottom of the whirlpool, as hair can become tangled in the drain.
- Appropriate swim attire must be worn in whirlpools.
- Please refrain from bringing food or drinks into this area. Use of the whirlpool immediately after eating is discouraged.
- Please turn off the whirlpool when finished.
- Please safeguard your belongings. The YMCA is not responsible for lost or stolen items.

CARING * HONESTY * RESPECT * RESPONSIBILITY

The YMCA of Greater Indianapolis Mission is: To put Christian principles into practice through programs that build healthy spirit, mind, and body for all.



**BATHER
LOAD 7**



**No Lifeguard
On Duty**



No Diving



NOTICE

1. Anyone who has or has had diarrhea in the past two (2) weeks shall not use the pool.
2. Anyone who has an area of exposed subepidermal tissue, open blisters, cuts, etc., is advised not to use the pool.
3. All persons shall take a cleansing shower before using the pool. A bather leaving the pool to use the toilet shall take another cleansing shower before returning to the pool enclosure.
4. Spitting, spouting of water, blowing the nose, and similar behavior in the pool is prohibited.
5. No running or rough play is permitted in the pool, on the runways, on diving boards, on floats, on platforms, in dressing rooms, or in showers.
6. Street clothes are not allowed in the pool.
7. All diaper aged children shall use plastic pants with tight fitting elastic at the legs and waist, or swim diapers.
8. Do not change diapers at poolside.

Bathing load 350 persons

THE MANAGEMENT RESERVES THE RIGHT TO REFUSE ADMITTANCE TO, OR EJECT FROM THE POOL PREMISES, ANY PERSONS FAILING TO COMPLY WITH ANY OF THE ABOVE HEALTH AND SAFETY REGULATIONS.



WARNING

**NO
LIFEGUARD
ON DUTY**

**CHILDREN UNDER THE AGE OF 14
SHOULD NOT USE POOL OR SPA
WITHOUT AN ADULT IN ATTENDANCE**

Lifeguards

- Required for all **PUBLIC** pools
- Required for all **SEMI-PUBLIC** pools with surface area of **2,000 sq. ft. or more**
- **Must be on duty @ poolside @ all times when open for use**

<i>Bather Load</i>	<i>Minimum Number of Lifeguards</i>
<i>0-75</i>	<i>1</i>
<i>76-150</i>	<i>2</i>
<i>151-225</i>	<i>3</i>
<i>226-300</i>	<i>4</i>
<i>301-375</i>	<i>5</i>

*When the bather load exceeds three hundred seventy-five (375), one (1) lifeguard shall be provided for each additional seventy-five (75) bathers or fraction thereof.

Calculating Gallons in Pools

Calculating Gallons in Constant Slope Pool

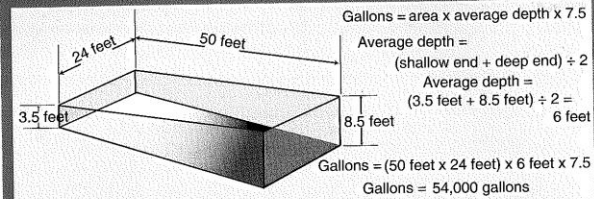


Figure 3-2a

Calculating Liters in Constant Slope Pool

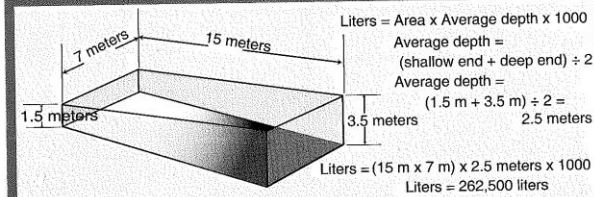


Figure 3-2b

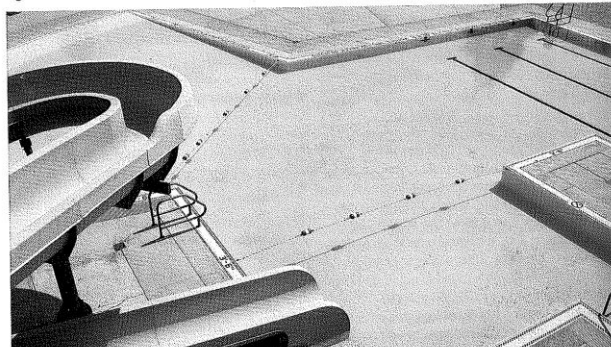
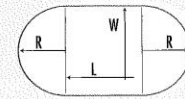


Photo 3-1. Calculate the volume of a multi-shaped pool by dividing the pool into sections.

Calculating Surface Area and Gallons and Liters (for liters measurements are in meters)

To determine the approximate number of gallons or liters in a pool or spa, first determine the surface area. Then multiply the area by the average depth and the constant conversion factor of 7.5 to convert cubic feet to gallons, or 1000 to convert from cubic meters to liters. To find the average depth for a more complex shaped pool, divide the complex shape into several simple shapes, calculate each one separately, and add them back together. For circular pools, R stands for radius.

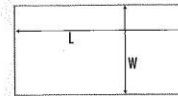


OBLONG

$$\text{Area} = R \times R \times 3.14 + (L \times W)$$

$$\text{Gallons} = \text{area} \times \text{average depth} \times 7.5$$

$$\text{Liters} = \text{area} \times \text{average depth} \times 1000$$

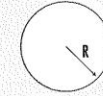


RECTANGLE

$$\text{Area} = L \times W$$

$$\text{Gallons} = \text{area} \times \text{average depth} \times 7.5$$

$$\text{Liters} = \text{area} \times \text{average depth} \times 1000$$

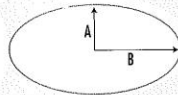


CIRCULAR

$$\text{Area} = R \times R \times 3.14$$

$$\text{Gallons} = \text{area} \times \text{average depth} \times 7.5$$

$$\text{Liters} = \text{area} \times \text{average depth} \times 1000$$

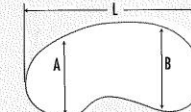


OVAL

$$\text{Area} = A \times B \times 3.14$$

$$\text{Gallons} = \text{area} \times \text{average depth} \times 7.5$$

$$\text{Liters} = \text{area} \times \text{average depth} \times 1000$$



KIDNEY

$$\text{Area (approx.)} = (A + B) \times L \times 0.45$$

$$\text{Gallons} = \text{area} \times \text{average depth} \times 7.5$$

$$\text{Liters} = \text{area} \times \text{average depth} \times 1000$$

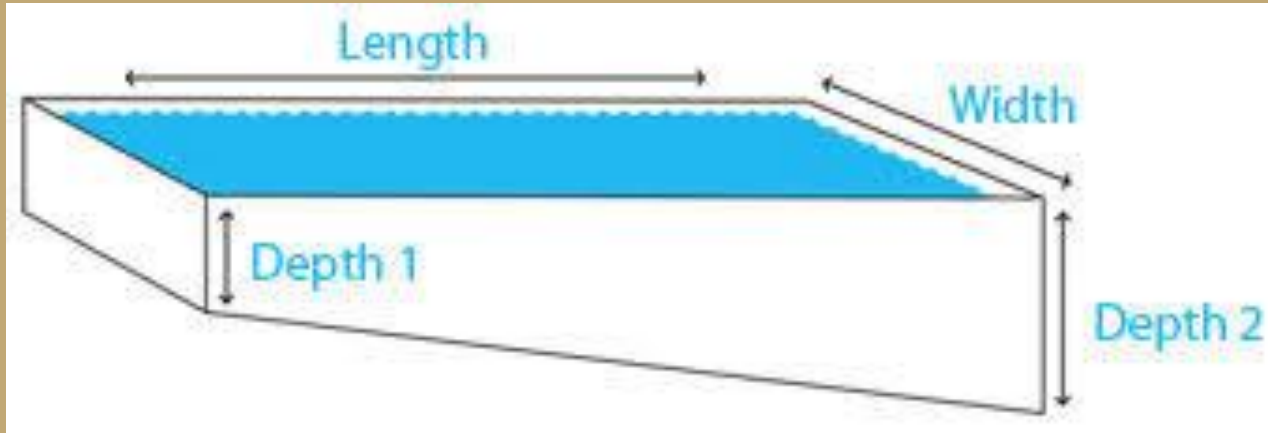
Figure 3-3



Photo 3-2. The surface area of a kidney-shaped pool is calculated using the area x average depth x 7.5.

1. Pool & Spa Management
2. Regulations & Guidelines
3. Essential Calculations
4. Pool Water Contamination
5. Disinfection
6. Water Balance
7. Pool & Spa Water Problems
8. Chemical Testing
9. Chemical Feed & Control
10. Water Circulation
11. Pool & Spa Filtration
12. Heating & Air Circulation
13. Spa & Therapy Operations
14. Facility Safety
15. Keeping Records
16. Maintenance Systems
17. Troubleshooting
18. Facility Renovation & Design
- References

Pool Volume



Length = 20 feet

Width = 15 feet

Depth 1 = 3 feet

Depth 2 = 9 feet

Length x width x average depth x 7.5 = volume (in gallons)

20ft x 15ft x 6ft x 7.5 =

13,500 gallons

Pool Surface Area

Length = 35 feet

Width = 20 feet

Length x Width = Surface Area

35 ft x 20 ft =

700 square feet

When & How to add Chemicals

Pool Chemical Formulas

Pool Type: _____ (ie spa, pool, wading, etc...)
Gallons: _____ Pool Occupancy: _____

Increase Chlorine

Calcium Hypochlorite .125 x ppm change x pool volume + 10,000 = pounds
Sodium Hypochlorite .1016 x ppm change x pool volume + 10,000 = gallons
Lithium Hypochlorite .250 x ppm change x pool volume + 10,000 = pounds

Decrease Chlorine

Sodium Sulfite .2 x ppm change x pool volume + 10,000 = pounds
Sodium Thiosulfate (dechlor) .0625 x ppm change x pool volume + 10,000 = pounds

Increase pH

Sodium Carbonate (Soda Ash) .186 x ppm change x pool volume + 10,000 = pounds
Caustic Soda .094 x ppm change x pool volume + 10,000 = pounds

Decrease pH

Muriatic Acid/Hydrochloric Acid .5 x ppm change x pool volume + 10,000 = gallons
Sodium Bisulfate .05 x ppm change x pool volume + 10,000 = pounds

Increase Total Alkalinity

Sodium Bicarbonate (Baking Soda) .15 x ppm change x pool volume + 10,000 = pounds

Decrease Total Alkalinity

Muriatic Acid/Hydrochloric Acid .016 x ppm change x pool volume + 10,000 = gallons
Sodium Bisulfate .16 x ppm change x pool volume + 10,000 = pounds

Decrease Stabilizer

Drain and fill with fresh water

Basic conversion *dry and liquid Conversions are not interchangeable*

1 lb (pound) = 16 ounces (Dry) 128 fl.oz. = 1 gallon (Liquid)

After testing and confirming a chemical level is incorrect!

****Follow all directions on manufacturer labels****

Know where to add each chemical

- directly to pool water?
- through a feeder?



Public Health
Prevent. Promote. Protect.

Hendricks County Health Department
Environmental Health Division

Hendricks County Government Center
355 South Washington Street, #210
Danville, IN 46122

Office: (317) 745-9217
Fax: (317) 745-9218
www.co.hendricks.in.us

Water Chemistry Adjustments

Water Chemistry Adjustment Guide

These are commonly accepted chemical parameters. Consult product labels for specific directions for chemical adjustments. The manufacturer's instructions must always be followed.

Dosages to Treat	10,000 Gallons		
	Desired Change		
Chemical	1 ppm	5 ppm	10 ppm
Increase Chlorine			
Chlorine Gas	1.3 oz	6.7 oz	13 oz
Calcium Hypochlorite (67%)*	2 oz	10 oz	1.3 lb
Sodium Hypochlorite (12%)	10.7 fl. oz.	1.7 qts	3.3 qts
Lithium Hypochlorite	3.8 oz.	1.2 lbs	2.4 lbs
Dichlor (62%)	2.1 oz	10.75 oz	1.3 lbs
Dichlor (56%)	2.4 oz	12 oz	1.4 lbs
Trichlor	1.5 oz	7.5 oz	1.4 oz
Increase Total Alkalinity	10 ppm	30 ppm	50 ppm
Sodium Bicarbonate	1.4 lbs	4.7 lbs	7.0 lbs
Sodium Carbonate	1.4 oz	2.6 lbs	4.1 lbs
Sodium Sesquicarbonate	1.25 lbs	3.75 lbs	6.25 lbs
Decrease Total Alkalinity	10 ppm	30 ppm	50 ppm
Muriatic Acid (31.4%)	26 fl. oz.	2.4 qts	1 gal
Sodium Bisulfate	2.1 lbs	6.4 lbs	10.5 lbs
Increase Calcium Hardness**	10 ppm	30 ppm	50 ppm
Calcium Chloride (100%)	0.9 lbs	2.8 lbs	4.6 lbs
Calcium Chloride (77%)	1.2 lbs	3.6 lbs	6.0 lbs
Increase Stabilizer	10 ppm	30 ppm	50 ppm
Cyanuric Acid***	13 oz	7.5 lbs	4.1 lbs
Neutralize Chlorine	1 ppm	5 ppm	10 ppm
Sodium Thiosulfate	2.6 oz	13 oz	26 oz
Sodium Sulfite	2.4 oz	12 oz	1.5 lbs

Chemical amounts have been rounded off. Always follow instructions on the manufacturer's label for exact dosage amounts. This table was adapted from the National Swimming Pool Foundation's Pool & Spa Operator™ Handbook.

* Other calcium hypochlorite products are available from 47% to 78%. Follow the label directions for dosage amounts or calculate the dosage using example 2 in the no product label chemical adjustment section.

** The only way to reduce calcium hardness is to remove some of the pool water.

*** The only way to reduce the level of cyanuric acid in the water is to drain and refill the pool with fresh water. Studies have shown that cyanuric acid residual remains in the plaster, filter elements and media, and scale in heaters and pipes.

B-3 Water Chemistry Adjustment Worksheets

Use the following blank chemical adjustment worksheets to perform your own calculations.

Amount of Chemical (from appendix B-2 or product label)	Actual Pool Volume in Gallons	Desired Chemical Change	Total
↓			
	+ 10,000 Gallons (From appendix B-2 or product label)	+ ppm (From appendix B-2 or product label)	
	↓	↓	=
	X	X	=

Notes:

Metric

Amount of Chemical (from appendix B-2 or product label)	Actual Pool Volume in Liters	Desired Chemical Change	Total
↓			
	+ 40,000 Liters (From appendix B-2 or product label)	+ mg/L (From appendix B-2 or product label)	
	↓	↓	=
	X	X	=

Notes:

1. Pool & Spa Management
2. Regulations & Guidelines
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18. Facility Renovation & Design

References

Adding Chemicals



Where to get water for testing?

- ❑ Do *not* take water around blowers, jets, suction outlet cover or skimmer baskets
- ❑ Try to go 18 inches down or until elbow is under the water
- ❑ Take sample where shallow end transitions to deep end



Turnover Rate

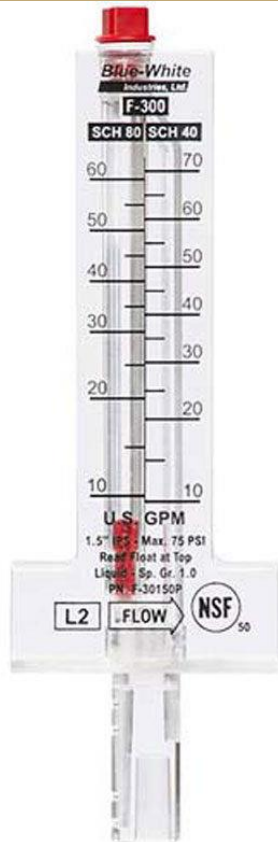
Spa: Every 30 minutes

Pools (build after 1989):

- ▣ Wading- 1 hour
- ▣ Wave, Zero depth, pools w/ wading areas- 2 hours
- ▣ Competition- 6 hours
- ▣ Diving- 12 hours
- ▣ All others- 6 hours

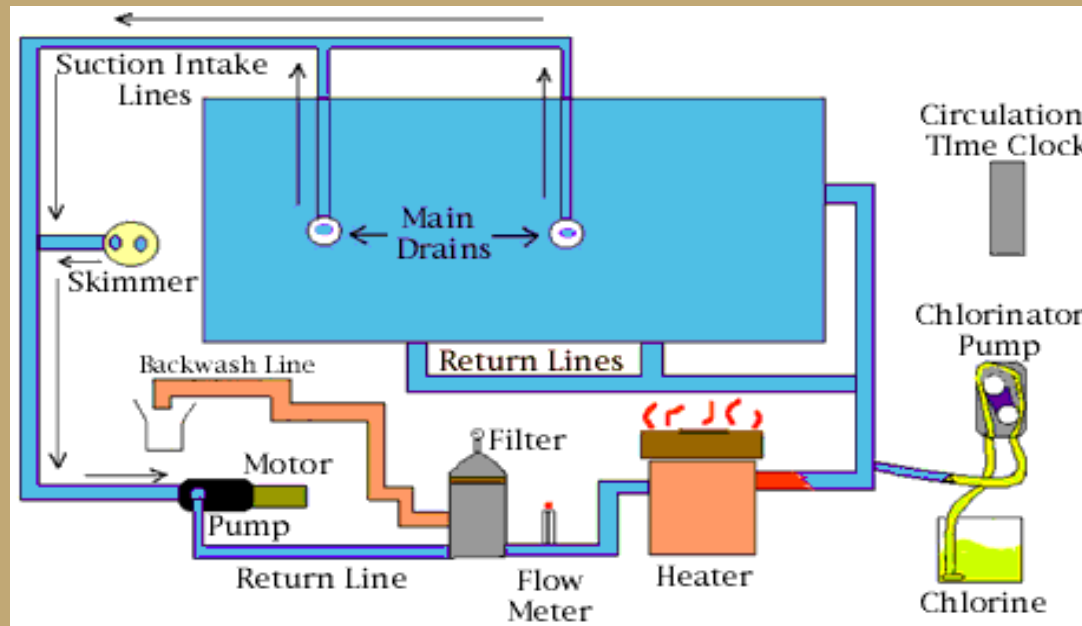


Flow Meter



Flow Meter: a device for measuring the rate of water passing through a given pipe, expressed in gallons per minute (gpm).

Flow Rate

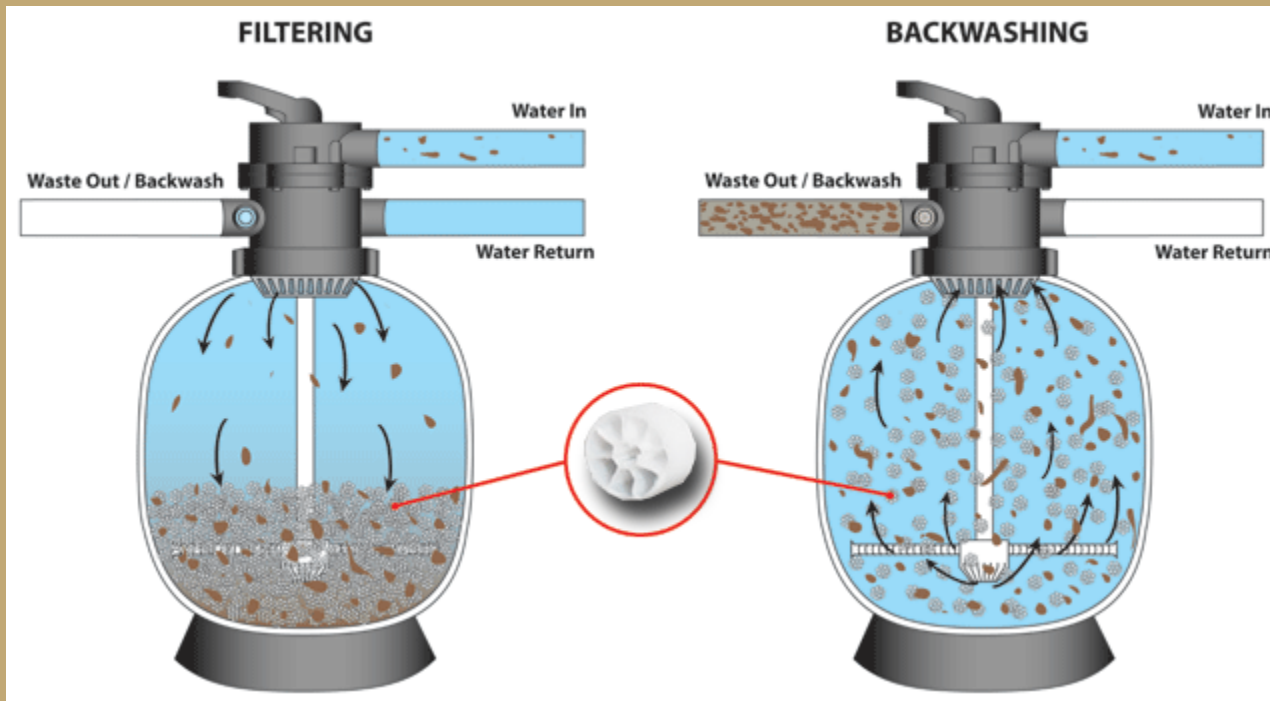


Flow Rate: The volume of water passing a given point in a given time, expressed in gallons per minute (gpm). The flowmeter must be located on a longer section of straight pipe in order to properly measure the flow rate.

Backwash

Backwash: the process of running water through a filter in the reverse direction to flush the filter of debris and contaminants, freeing up the filter to be less restricted so the water can pass through the filter more efficiently, collecting more debris.

****Always open any air bleed valves and turn off the pump before changing valve positions. Also turn off any safety vacuum release equipment, if applicable****



Backwash

Sand Filters: backwashing is required when water entering filter and water exiting filter reaches a 10-20 psi difference (note by observing pressure gauges on each side of filter flow, if only 1 pressure gauge, should noted starting pressure and backwash when pressure increases 8-10 psi).

Pressure Diatomaceous Earth (DE): When pressure reaches 10 psi higher than cycle starting pressure on a single gauge operation the filter must be cleaned. Backwash is accomplished with use of valves or a multi-port valve, water flow is reversed, diverted to separation tank, then to waste. Turn off pump and restart, repeat backwash cycle 3 x's.

Manual DE: Follow manufacturer's instructions for pulling grids from filter, spraying grids (inspect for tears/damage), soaking elements in a cleaner, and reassemble.

****Allows follow written directions of filter manufacturer no matter what type you have.**

****Watch any sight glass or discharge until water runs clear!**

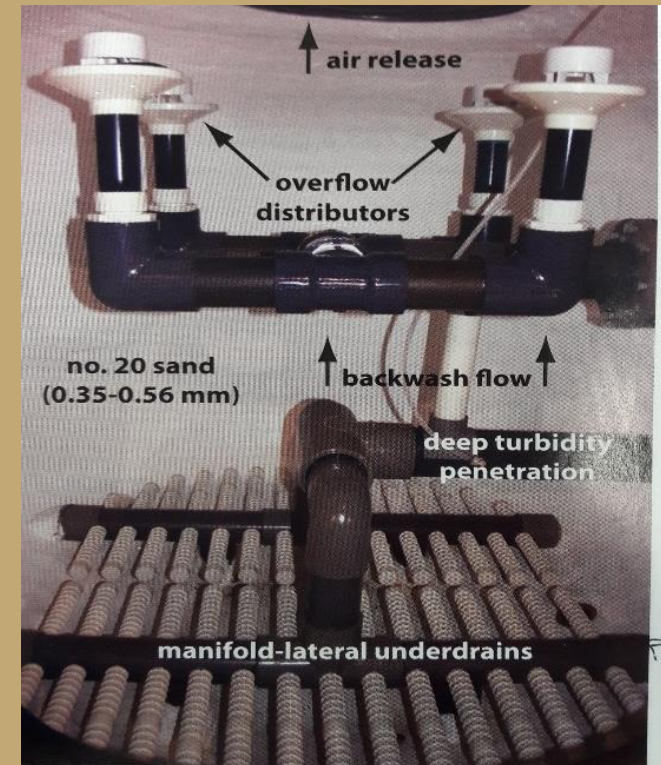


Illustration 11-2. Cross section of a high-rate sand filter.

Testing the waters!

Let us show you some pointers!



- *Clean test tubes & replace when discolored!
- *Contamination in tubes can effect chlorine levels!
- *Check your reagents often & replace when expired!

Videos – Taylor Technologies

Good Sampling Techniques

Chlorine

pH

pH Interference

Total Alkalinity

Total Alkalinity Interference



Certified Pool Operator




Splash Pads

- ❑ Becoming extremely popular
- ❑ Current Hendricks County Splash Pads:
 - ❑ Washington Township and Hummel Parks are fresh water pads where waste goes directly to sanitary sewer
 - ❑ Williams Park Watermill and The Shops @ Perry Crossing are on recirculated systems





Sun Safety

- Project from environmental conference
- Sun safety tips
- Made specifically for each location.
- Please consider hanging next to phone.








Have a Sun Safe Summer!

Legacy Park at Heritage Hill
6750 Legacy Park Dr.
Brownsburg, IN 46112

Most important between 10am-4pm!!

UV PROTECTION CHART

					
	Low (2-0)	Medium (3-5)	High (6-7)	Very High (7-10)	Extremely High (11+)
Sunscreen	Sunscreen	Sunscreen	Sunscreen	Sunscreen	Sunscreen
Sunglasses	Sunglasses	Sunglasses	Sunglasses	Sunglasses	Sunglasses
	Hat	Hat	Hat	Hat	Hat
	Shade	Shade	Shade	Shade	Shade
					Staying indoors between 10am-4pm


✓ *Take Frequent Breaks
in the Shade*

✓ *Reapply Every 2-4
Hours*

✓ *Drink lots of Water!*

✓ *Wear SPF 30
Sunscreen!*

✓ *Wear a Brimmed Hat
and Sunglasses*



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Dog Swims



ISDH Dog Swim Guidelines



Special Thanks!!!

Plainfield Aquatic Center

Nick Fisher – Aquatic Supervisor

Brent Bangel – Director

Jordan Brouillard – Aquatic Manager

Indiana State Department of Health

Diana Peterson – Field Staff

**THANK
YOU!**

Hendricks County Pool School

Questions & Answers



Contact Information

If anyone has questions please don't hesitate to contact us.

Devin Brennan, CPO

317-718-6012

dbrennan@co.hendricks.in.us

Sarah Dallas, CPO

317-718-6011

sdallas@co.hendricks.in.us

****Or call our office and ask for a CPO****

317-745-9217