Health Protection

Environmental Health Services

Basic Pool Safety Plan

September 2015











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Pool Information

Pool Administration / Information		
Facility Name		
Facility Address		Phone
Pool Safety Plan Prepared by		Date
Last Reviewed / Updated by	(Required to be done at least once a year)	Date

Pool data sheets, engineered plans and/or pool drawings (should be included if available)						
Location of Pool Data Sheets (It is	recommended that a laminate	ed copy be posted in the filter room)				
Location of Engineered Plans and/	Location of Engineered Plans and/or Pool Drawings					
Additional Information (if i	equired)					
Contact Information						
Facility Owner or Strata	Name	Phone Number	Cell Number			
Facility Manager	Name	Phone Number	Cell Number			
Operator/Maintenance/Pool Company	Name	Phone Number	Cell Number			

Pool Details (Provide details for each pool in the facility)					
Pool Name or	Pool 1	Pool 2			
Description (e.g. main pool, hot tub)	Туре	Туре			
	Name	Name			
	Facility/Premises#	Facility/Premises#			
	Date Constructed:	Date Constructed:			
	Indoor Outdoor	Indoor 🗌 Outdoor 🗌			
Bather Load					
Surface Area of Pool					
Volume					
Depth	Minimum	Minimum			
	Maximum	Maximum			
Design Flow Rate	Correct flow meter readings confirm flow thro hazard and is adequate for the correct turnov pool data sheet.				
	 All pools should have at least one flow m Hot tubs should have at least two flow m Pools with water features may have addi 				
	Pool recirculation:	Pool recirculation:			
	Water features:	Water features:			
	or	or			
	Hot tub recirculation:	Hot tub recirculation:			
	Hot tub hydro air:	Hot tub hydro air:			

List of Equipment and Amenities				
Pool 1	Pool 2			
Choose all that apply (<):	Choose all that apply (v):			
Diving Board(s)	Diving Board(s)			
Slides	Slides			
Ladder(s) #	Ladder(s) #			
Sauna 🗌	Sauna 🗌			
Steam Room	Steam Room			
Underwater Lighting	Underwater Lighting			
Other Features <i>(list)</i> :	Other Features (list):			
□				

Emergency Procedures

Procedures in the event of a serious injury, emergency or incident.

Emergency Contact List (Post next to	the telepho	one or	in anoth	er visibl	e location if no teleph	one available)
First Responders						
Ambulance	911	or	()		
Fire Department			()		
Police			()		
			()		
Building Contacts Trained in First Aid / Er	nergency	Resp	oonse /	CPR	(if any)	
	()			Cell phone ()
	()			Cell phone ()
Additional Contact Information	-					
Local Hospital	()				
Poison Control	()				
Public Health Department	()				
Pool Company	()				
Gas Company	()				
	()				

Location of Pool Emergency Phone

Identify the location of where the pool emergency phone and the phone script will be located. In the event that there is no emergency phone, ensure the phone script is in an easily accessible location.

Exam	ole of emergency phone script
1.	Dial 911 and specify police, ambulance or fire.
2.	State who you are along with the address and the phone number you are calling from:
	- Hello, I'm at (facility)
	- The address is
	- The swimming pool phone number is
3.	State the nature of the situation. If there is a fire, advise them of the chemical storage room location.
4.	Tell them the best way to come to the facility (provide directions)
5.	Ask what their estimated time of arrival is.
6.	Send (title of individual)
	to meet and direct emergency personnel to scene.

Facility Emergency Response

These are only examples and do not cover all possible incidents or actions. Alter as appropriate. (*Attach blank copy of Incident Reporting Form and Emergency Site Plan*)

Type of Incident	Facility Procedure	Prevention (may include)
Medical Emergencies (near drowning/drowning, unconscious, chest pain, spinal/head injury, broken bones/sprains, seizures, allergic reactions, etc.)	 Call 911 Provide assistance as necessary Record incident on records sheet 	 Signage posted and enforced Staff Training Good water quality Depth markings visible Pool monitored for slips and entrapment
Minor Incidents/First Aid	 Provide assistance as necessary Advise patron to see his/her doctor Record incident on records sheet 	 Signage posted and enforced Pool monitored for slips and entrapment First aid kit well stocked
Heat-Related Incidents	 Call 911 Provide assistance as necessary Record incident on records sheet 	 Hot Tub Max 40°C Signage posted Clock functioning Sink and shower water max 49°C
Health / Hygiene Emerge	ncies	
Fecal and Vomit Incidents	 See attached CDC Response Protocol Record incident on records sheet Contact Health Authority Environmental Health Officer 	- Signage posted
Blood and Body Fluid Incidents (In and out of water)	 Record incident on records sheet Contact Health Authority Environmental Health Officer 	- Signage posted
Disease Outbreaks (e.g. rashes, eye or ear infection, fungal infections)	 Contact Health Authority Advise patron to see his/her doctor Record incident on records sheet Check records to identify potential problems when client used facility and current conditions Apply corrective action as necessary 	 Signage posted and enforced Exclude patrons that are ill Minimize contamination to pool Provide soap at showers and sinks Follow cleaning procedures Balance pool chemistry Ensure adequate level of disinfectant
Patron Related Emergen	cies	
Entrapment/Section Incident	 Shut down recirculation system if necessary Call 911 if necessary Close pool Determine reason for entrapment Apply corrective action Record incident on records sheet Contact Health Authority Environment Health Officer 	 Inspect pool facility regularly for entrapment hazards Signage Ensure proper flow through main drain Ensure proper covers on main drain Equalizer lines disabled

Type of Incident	Facility Procedure	Prevention (may include)
Hostile/Aggressive/ Difficult Person	- Call 911 if necessary	Staff trainingNo consuming alcohol or other intoxicants
Missing Person	 Call 911 if necessary Record incident on records sheet 	SignageParents supervise children
Facility Emergencies		
Gas Leak (chlorine, ozone, natural gas, propane, etc.)	 Call 911 if necessary Clear the building Record incident on records sheet 	 Know where and how to shut off gas Preventative maintenance and checks Monitoring systems Staff training
Chemical Spill	 Call 911 if necessary Record incident on records sheet 	 Staff training Personal protective equipment present Knowledge of chemicals and interactions Proper storage Material Safety Data Sheets (MSDS) present
Fire (complete and attach an evacuation plan and site plan that includes locations of alarms, exists, extinguishers, etc.)	 Call 911 Inform fire department of chemical storage and location of store room See evacuation procedure below Record incident on records sheet Contact Health Authority Environmental Health Officer 	 Staff training Fire alarms and extinguishers Exit sign clearly marked Equipment maintenance Proper chemical storage
Natural Disasters (lightning, flood, earthquake, etc.)		- Staff training

Evacuation Procedure	Should include procedures for pool weather, persons with special needs, age groups, etc. Attach building plan with evacuation routes and designated meeting areas.

Lifesaving, First Aid and Supervision

Emerge	ncy Equipment	Location(s)
	Non-conductive reaching assist at least 3.5 meters in length with a shepherd's hook	
	Throwing ring with rope at least 6 mm in diameter and length of at least half the width of the pool plus 3 meters	
	Basic First Aid Kit (Recommended)	
	Personal protective equipment including pocket mask and gloves (Recommended)	
	Other	

Signage

Lifeguard on Duty

When no lifeguard on duty, a clearly visible notice must be posted at each entrance to the pool.

NO LIFEGUARD ON DUTY

CHILDREN MUST BE SUPERVISED BY AN ADULT

Pool Rules

- Ensure you are not ill including diarrhea, vomiting, open sore(s), bandages, head colds, discharging ears or noses, or ear infections. Persons with related symptoms should not enter the pool until 48 hours after cessation of these symptoms.
- Wear clean and appropriate bathing attire.
- Take a cleansing shower.
- Ensure all children less than 7 years of age are closely supervised (within arm's reach at all times) by a responsible person of at least 16 years of age.
- Ensure infants and toddlers wear swim diapers and/or elastic swim pants.
- Ensure one responsible person supervises a maximum of three children who are less than 7 years of age.
- Report an injury suffered while in the pool enclosure, to the pool manager or lifeguard.
- Report any contamination or fouling of the pool (e.g. urinating of defecating), to the pool manager or lifeguard.
- No running, fighting or engaging in conduct likely to cause an injury.
- No contaminating or fouling the pool.
- No diving.

Additional Signs

Attach additional signs/rules for the safe use of hot tubs, saunas and other features.

- No diving.
- Don't stay in the hot tub for more than 10 minutes at a time.
- Don't totally immerse your body.
- No entry if under the influence of alcohol or other intoxicants.
- Keep hair away from underwater fittings.

Pool Operation and Maintenance

Pool Operator Qualifications (training / experience)

When to close the pool to swimmers

- When there is the presence of vomitus or feces.
- When minimum disinfection level cannot be maintained.
- When water is too cloudy to see the pattern of the main drain.
- When the recirculation system is not working.
- When there is a power outage.
- When supercholorinating or shocking.
- When adding chemicals directly to the pool.
- When any hazardous situation exists that could negatively impact the health and safety of swimmers (may require closure of the entire facility (e.g. chlorine gas leak, poor microbiology, suction hazard).
- When pH or other chemical parameters are out of required range.
- When instructed by the Health Officer.

Pool Water Chemistry Requirements

Parameters requiring testing	Minimum Testing Frequency	Test results required		
рН	2 x / day	Within range of 7.2 – 7.8		
Combined Chlorine	2 x / day	Less than 1 ppm		
Alkalinity	1 x / week	Within range of 80 – 120 ppm		
Cyanuric Acid	1 x / week	Less than 80 ppm		
Disinfectant		Water temp ≤ 30ºC	Water Temp >30°C	
Free Available Chlorine or	2 x / day	0.5 ppm or greater	1.5 ppm or greater	
Chlorine Cyanurate (stabilized chlorine) or	2 x / day	1.0 ppm or greater 2.0 ppm or greater		
Bromine	2 x / day	1.5 ppm or greater	2.5 ppm or greater	

Name and Model of Test Kit

(may attach procedures for testing and calibration)

Name of Reagent	Manufacturer's Recommended Shelf Life

Written Procedures in the event test results fail

Troubleshooting Problem	Product Used to Correct	General Procedures (e.g. describe dilutions or use product label
Disinfectant too high		
Disinfectant too low		
Combined chlorine too high		
pH too high		
pH too low		
Alkalinity too high		
Alkalinity too low		
Cyanuric acid too high (if applicable)		
Cyanuric acid too low (if applicable – outdoor pools only)		
Cloudy Water		

Safe Handling and Storage of Chemicals

Chemicals Used	Essenital Information, Precautions and Storage Details (follow MSDS)
E.g. Sodium hypochlorite	(i.e. Corrosive, causes severe eye injury, skin burns, respiratory burns. Use protective gear to handle, do not mix with muriatic acid, chlorinator tank requires containment.)

Procedures for opening and closing pool at beginning/end of day (attach additional sheet if necessary)

Procedures for opening and closing seasonal pool at beginning/end of season (attach additional sheet if necessary)

Procedures for draining the pool

Maintenance of Mechanical Equipment (Note: This list provides examples and is not intended to be a complete list. Modify as necessary.)

Installation and operating manuals are located _____

Equipment	What Needs to be Checked	Frequency	Corrective Procedures (for backwashing, replacing filter media, adjust flow and rate, etc.)
Filters	Backwash gauges		
	Filter media		
Chemical Feeder	TubingPump		
Pumps	 Hair and lint strainer Cavitation, noise Leaks Losses prime 		
Water Temperature Heater	 Water temperature too hot/cold Scaling/corrosion) 		
Flow Meter	 Flow rate too high/low Meter corroded Float stuck 		
Ventilation			
Skimmers/Main	Weir functionProper % of flow		
Ground Fault Interrupter	 Test by tripping 		

Operation and Maintenance Responsibilities Related to Facility			
Duties (i.e. Clean deck; test pool chemistry; monitor and repair equipment, etc.)	Person, Job Title or Company	Backup Person, Job Title or Company	Description

General Maintenance Checklist

The following are some of the items that should be included in your schedule (schedule may include a comments section)

Pool ba	Isin
	Checked for entrapment hazard (gap between 3.5" and 9")
	Check water intakes for possible suction hazards
	Check for any safety hazard such as sharp projections
	Main drain is secure and in good repair
	Checked for signs of deterioration
	Skimmer basket cleaned
Handra	ils, ladders, deck equipment secure
Water I	evel is correct for removal of floating debris
Depth r	narkings clearly visible
Steps a	re clearly marked in a contrasting colour
Floors a condition	are in good condition with non-slip surfaces, free of pooled water, free of ice in freezing
Adequa	te fencing, doors, gates, alarms to prevent unauthorized entry
Drinkin	g water fountain is operational (clean and good pressure)
First aid	d kit well stocked
Rescue	equipment in good condition and easily accessible
Signag	e is in place
Showe	r/sink temperature < 49°C
Ground	fault circuit interrupter for underwater lights functioning
Backflo	w prevention devices/air gap are functional
Clock ir	n place and functional
Adequa	ate lighting for pool area
Pool te	mperature ≤ to 37°C
Hot tub	temperature \leq to 40°C
Flow m	eters working properly
Deck d	rains are secure and in good repair
Floating	g weirs functioning

Pool Cleaning Schedule

Area	Chemical, Cleaner or Other Products Used	How to Handle Safely/Procedure (refer to MSDS)	Cleaning Frequency	Person or Position Responsible	
Floors	•				
Change Room					
Showers/Washrooms					
Halls					
Pool Deck					
Floor/Deck Drains					
Other:					
Surfaces	-				
Benches/Lockers					
Shower Walls					
Toilet Bowls					
Sinks/Mirrors					
Pool Features					
Other					
Pool Basin	•				
Tiles at water mark					
Skimmer baskets					
Vacuuming					
Other					
Supplies					
Toilet paper/towels					
Soap					
Other					
Other Areas	·	•			