



SWIMMING POOL/SPA INSPECTION REPORT

LOCAL INSPECTION AGENCY:

Story County Environmental Health
 900 6th Street
 Nevada, Iowa 50201
 515-382-7240

Date of Inspection: 6/16/21		Registration # <input checked="" type="checkbox"/> Pool <input type="checkbox"/> Spa <input type="checkbox"/> Other	
Facility Name: ISU Physical Education Pool		Registration # <input type="checkbox"/> Pool <input type="checkbox"/> Spa <input type="checkbox"/> Other	
Facility Physical Address:		Registration # <input type="checkbox"/> Pool <input type="checkbox"/> Spa <input type="checkbox"/> Other	
City: Ames	County: Story	State: IA	Zip:
Person Contacted:		E-Mail:	
Name of CPO(s)			

CHEMICAL FEED SYSTEMS AND SECONDARY DISINFECTANT

Disinfection make and model #: **Stranrol system 4 Pulsar III system**

Type:
 Bromine Trichlor Calcium Hypochlorite Sodium Hypochlorite Lithium Hypochlorite Cl (gas) Other: _____

WATER CHEMISTRY

Type (Pool, Spa, Plunge Pool, etc)	Free Chlorine Pool 1.0-8.0 Spa 2.0-8.0	Bromine Pool 2.0-18.0 Spa 4.0-18.0	pH Pool 7.2-7.8 Spa 7.2-7.8	Cyanuric Acid Pool 0-40 Spa 0- 40	Controller ORP 700-880 pH 7.2-7.8	Spa Temperature ≤ 104°
Pool	2.6	—	7.1	—	788	—

Key: S = Satisfactory U = Unsatisfactory N/A = Not Applicable

FACILITY RECORDS

- S U N/A**
- 15.9(1)** The swimming pool or spa is currently registered.
 - 15.4(2)a(1)-(6) & 15.51(2)a(1)-(6)**: Water quality readings recorded are in the correct range (or closures noted when out of range).
 - 15.4(2)e(1)-(6)**: Swimming pool: ORP and pH at opening and every 4 hours; free Cl (Br) 2x daily; combined Cl, total alkalinity and cyanuric acid weekly; calcium hardness & bacteria testing monthly.
 - 15.4(4)h(1)3 & 15.51(4)f(2)3**: Submerged outlet (VGB) certification of compliance (main drain, equalizer, feature outlets, etc.) is on-site.
 - 15.4(4)h(3)1-3 & 15.51(4)f(4)1-3**: SVRS product information that demonstrates compliance is on-site. SVRS tested monthly and the test date(s) recorded.
 - 15.4(6)h**: Certified operator, lifeguard, first-aid, & CPR certificates.
 - 15.4(6)f(2) & 15.51(5)e(2)**: Monthly microbiological analyses results.
 - 15.4(6)f(3) & 15.51(5)e(4)**: Facility maintains reports of complaints, accidents, injuries, & illness. Reports submitted as required.

- 15.4(6)f(4) & 15.51(5)e(5)**: Dates & quantities of chemical additions, including resupply of chemical feed systems.
- 15.4(6)f(5) & 15.51(5)e(6)**: Dates when filters were backwashed, cleaned, or a filter cartridge was changed.
- 15.4(6)f(6) & 15.51(5)e(8)**: GFCI receptacles & breakers are tested at least 1x/month and dates of test dates recorded.
- 15.4(6)f(7) & 15.51(5)e(9)**: MSDS for chemicals on-site, reviewed annually, and date(s) of review recorded.
- 15.4(6)i(1)-(6) & 15.51(5)g(1)-(6)**: Operations manual on-site (water testing procedures, backwash, vacuuming, etc).
- 15.4(6)i**: A written emergency plan onsite (drowning, serious illness or injury, chemical-handling accidents, weather emergencies, and other serious incidents) reviewed annually by staff, and date(s) of review recorded.

- S U N/A**
- 15.4(6)m**: Lifeguard staffing plan, including diagram(s) of zones of surveillance responsibility.
 - 15.51(2)e(3)**: Spa temperature recorded when water quality testing is done (104° or less-closures noted when out of temp range).

- 15.51(2)e(1)-(8): Spa: ORP and pH at opening and every 2 hours; free Cl (Br) and temperature 2x daily+; combined Cl and cyanuric acid daily; total alkalinity weekly and at each fill; calcium hardness at each fill & bacteria testing monthly
- 15.51(3)b(2): Spa drained, cleaned & refilled: 500 gal or less 1x week, 500 -2000 gal 1x every two weeks, more than 2000 gal 1x every three weeks.

POOL/DECK/SURROUNDING AREA

S U N/A

- 15.4(1)b(4)1 & 15.51(1)e(1)-(2): Skimmers have self-adjusting weirs and removable baskets.
- 15.4(2)c & 15.51(2)c: Grate clearly visible. Grate openings visible in water less than 8ft deep.
- 15.4(3)b(1) & 15.51(3)b(1): Pool/spa does not require cleaning.
- 15.4(4)b(1): Ladders or recessed steps provided in the deep portion of pool. Stairs, ladders, recessed steps, or ramps provided in the shallow portion if more than 2 ft deep.
- 15.4(4)b(2) & 15.51(4)b(5): Ladders and ladder rungs are securely anchored.
- 15.4(4)b(3): The vertical rails of a ladder are 3" to 6" from the pool wall. The bottom end of ladder is within one inch of the pool wall and covered with a smooth non-metallic cap.
- 15.4(4)b(4) & 15.51(4)b(2): Steps, rungs, and ramps are slip resistant.
- 15.4(4)b(5): Pool over 30 ft wide have recessed steps, ladders, ramps, or stairs installed on each side.

S U N/A

- 15.4(4)b(6)-(7): Recessed steps, stairs, or ramps have securely anchored grab rails or handrails.
- 15.4(4)b(8): Stairs have slip resistant color contrasting stripe at least 1 inch wide marked at the leading edge of each tread.
- 15.4(4)e: Elevated lifeguard chairs (where required) are provided.
- 15.4(4)f(1): Required lifesaving equipment provided.
- 15.4(4)f(4): First-aid kit containing bandages, 4x4 bandage compress, self-adhering gauze bandage, disposable gloves & chemical cold compress. Signage if required.
- 15.4(4)f(5): Spine board provided (facilities with lifeguards)
- 15.4(4)f(6) & 15.51(4)d: A designated emergency telephone with instruction. Signage posted as required.
- 15.4(4)g & 15.51(4)e: Pool/spa water levels maintained at the skimming level.
- 15.4(4)h & 15.51(4)f: Fully submerged outlets not missing or broken.
- 15.4(4)h(4) & 15.51(4)f(5): Skimmer equalizer openings VGB compliant or the equalizers plugged.
- 15.4(4)i(1): The bottom and sides of pool are white or light color.
- 15.4(4)i(3): The shallow & deep water (5 ft) or change in slope is marked by a float line with floats spaced no more than 5 ft apart.
- 15.5(18)c: Each section of a multi-section pool is separated from the other sections by a float line (built or reconstructed since March 10, 1993).
- 15.4(4)j(1): Depth markers within 3 ft from edge of pool.
- 15.4(4)j(2): Depth markers in 1 ft depth intervals and not more than 25 ft apart in shallow water.
- 15.4(4)j(3): Depth markers not more than 25 ft apart around the deep end of swimming pool.
- 15.4(4)j(6): "No Diving" marked in areas where diving is not permitted (not more than 25 ft apart).

- 15.4(4)j(7): Letters, numbers & graphics marked on decks and slip resistant.
- 15.4(4)k(1)-(3) & 15.51(4)h(1)-(4): Decks are slip resistant, have durable and cleanable surface, are free of litter, obstructions & tripping hazards.
- 15.4(4)k(3) & 15.51(4)i: No underwater or overhead projections or obstructions.
- 15.4(4)l(2) & 15.51(4)k(2): Fence, wall, or other means of enclosure has no openings greater than 4 inches.
- 15.4(4)l(1) & 15.51(4)k(1): Pool enclosed by a fence, wall, building enclosure or combination not less than 4 ft high.
- 15.4(4)l(2) & 15.51(4)k(2): The distance between the ground & the top of the lowest horizontal support is at least 45 inches.
- 15.4(4)l(3) & 15.51(4)k(3): A gate at least 36 inches wide provided for emergency purposes.
- 15.4(4)l(4) & 15.51(4)k(3): Gates lockable.
- 15.4(4)l(5) & 15.51(4)k(4): Gates/doors are self-closing and self-latching (where lifeguards are not provided).
- 15.4(4)l(5): Indoor pool enclosed by barrier at least 3 ft high if there are sleeping rooms, hallways, apartments, condominiums or permanent recreation areas used by children that open directly into the swimming pool area.
- 15.4(4)l(6): Wave pool has a continuous barrier at least 42 inches high along the full length of each side of the wave pool.
- 15.4(4)m(1) & 15.51(4)j(1): Electrical outlets serving pool deck equipped with (GFCI) at the outlet or at the breaker serving the outlet.
- 15.4(4)m(2) & 15.51(4)j(4): Artificial lighting provided for indoor or outdoor pools/spas used after sunset (overhead and/or underwater lights) are functional.

S U N/A

- 15.4(6)b(1)-(3) & 15.51(5)b(1)-(8): Legible pool rules signs posted at two locations (No Diving, No Rough Play, No Running)
- 15.4(6)d(1): 'No Lifeguard' (Children under 12 must be accompanied by an adult) sign posted at each swimming pool entry where lifeguards are not provided.
- 15.5(4)h & 15.51(4)h(3): At least one hose bib provided for flushing the deck (built or reconstructed since March 14, 1990).
- 15.4(1)d(2) & 15.51(1)g(2): Vacuum breaker backflow preventers provided on all hose bibs on the deck.
- 15.4(4)c(2): Starting blocks removed, covered, or a sign posted to prevent use by the public during general use periods.
- 15.5(4)d & 15.52(4)b: The decks drain away from the swimming pool/spa (built or reconstructed since March 10, 1993).
- 15.5(13)f(3): Where pool depth changes from shallow to deep, a 4-inch-wide stripe is marked (floor and wall) at 5 feet depth (built or reconstructed since March 14, 1990).
- 15.4 & 15.51: A swimming pool/spa is operated in a safe, sanitary manner.

SPA

S U N/A

- 15.51(4)c: Spa water temperature does not exceed 104°F.
- 15.51(4)l: Agitation system control out of reach of persons and timer is 10 minutes or less.
- 15.51(5)b: Spa rules sign (8 required stipulations) posted.
- 15.51(5)c: Maximum spa depth posted (letters or numbers 3in high).
- 15.52(12)a: A spa has at least one stairway, ramp, ladder or set of recessed steps designating a point of entry (built or reconstructed since March 14, 1990).
- 15.52(12)a(1)2: Spa stair steps have two hand/grab rails, one on each side of the steps (built or reconstructed since March 10, 1993).

15.52(12)c: An emergency shutoff switch near the spa (built or reconstructed since 1999).

WADING POOLS

S U N/A

15.4(4)h: Fully submerged outlets not missing or broken.

15.4(4)h(1)2: Fully submerged outlet covers/grates not removable without the use of tools.

15.4(4)l(4): Wading pool within 50 ft of a pool has a barrier at least 36 inches high separating it from the pool or has written alternate management plan on-site.

15.4(4)l(5): Gates/doors are self-closing and self-latching (where lifeguards are not provided).

15.4(6)d(1): 'No Lifeguard' (Children must be accompanied by an adult) sign posted at each wading pool entry where lifeguards are not provided.

15.4(4)j(4): Maximum depth of wading pool at each entrance and one location inside enclosure (letters or numbers 3in high).

DIVING BOARDS

S U N/A

15.4(4)c(6): Diving boards/platforms have slip-resistant surfaces.

15.4(4)c(8)-(9): Diving board handrails and guard rails present and secure.

15.4(4)c(10): Diving board supports, platforms & steps have no obvious visual structural problems.

WATER SLIDES

S U N/A

15.4(4)d(5): Water slide has a lifeguard (or shallow water guard where applicable) at the top and bottom of slide.

15.4(4)o(1): Water slide support structures are free of obvious structural defects.

S U N/A

15.4(4)o(2): The walkable surface of flume is smooth and continuous.

15.4(4)o(3): The walkable surface of flume has no sharp edges within reach of a user while in the proper sliding position.

15.4(6)e(1)-(6): Water slide rules are posted near the slide.

15.5(17)b(1): Plunge pool depth is at least 3 ft and no more than 4 ft.

15.5(17)b(4): Landing area for a water slide is designated by a float line or a painted area.

MECHANICAL ROOM

S U N/A

15.4(1)a & 15.51(1)a: Filtration system is in good working condition.

15.4(1)b(1) & 15.51(1)c: The recirculation system is operating continuously (except for backwashing or servicing).

15.4(1)b(1) & 15.51(1)c: The circulation system flow meter(s) are functional.

15.4(1)b(2) & 15.51(1)b: Pressure gauges (before and after) filter pump

15.4(1)c & 15.51(1)f: Wastewater and backwash is discharged through an air break or air gap.

15.4(1)d(1) & 15.51(1)g(1): Water supplied to a pool/spa is discharged to the system through an air gap or a reduced principle backflow device.

15.4(1)d(2) & 15.51(1)g(2): Vacuum breaker backflow preventers provided on hose bibs in mechanical room.

15.4(1)e(1) & 15.51(1)h(1): Electric water heaters have UL seal.

15.4(1)e(2) & 15.51(1)h(2): Gas-fired heaters have AGA seal and equipped with a pressure relief valve.

15.4(1)e(3) & 15.51(1)h(3): Fuel-burning water heaters are vented to the outside.

15.4(1)e(4) & 15.51(1)h(4): Rooms with fuel-burning equipment has opening(s) to the outside for providing combustion air.

15.4(2)g: Knowledgeable person in testing water/operating water treatment equipment available when pool is open for use.

15.4(2)f(1)-(3) & 15.51(2)f(1)-(3): A swimming pool/spa facility has water testing equipment for free chlorine & combined chlorine, or total bromine; pH; total alkalinity; calcium hardness; & cyanuric acid.

15.4(2)f(4)-(5) & 15.51(2)f(4)-(5): ORP/pH controller with numerical analog or digital display

15.4(3)a(1) & 15.51(3)a(1): Continuous disinfection feed equipment installed and operational.

15.4(3)a(2) & 15.52(11)h: Continuous pH chemical feed equipment installed and operational (built or reconstructed since July 1, 1998).

15.4(3)b(2): A vacuum cleaning system is provided.

15.4(6)j & 15.51(5)i: A schematic drawing of the recirculation system is posted or clear labeling of piping with flow direction and water status (unfiltered, treated, backwashed).

S U N/A

15.4(4)a(2) & 15.51(4)a(2): Swimming pool/spa chemicals properly stored & handled.

15.4(4)a(4) & 15.51(4)a(4): Chemical storage containers clearly labeled.

15.4(4)a(5) & 15.51(4)a(5): A chemical hazard warning placed at the entrances to rooms where chemical are used or stored.

15.4(4)h(3) & 15.51(4)f(4): A pool/spa with a single submerged outlet that is not unlockable is equipped with a SVRS.

15.4(4)m(2)2 & 15.51(4)j(4)2: Underwater lights more than 15V equipped with a GFCI.

15.5(11)g: Sodium hypochlorite tanks larger than 55 gallons have secondary containment (built or reconstructed since May 4, 2005).

CHLORINE GAS

S U N/A

15.4(4)n(1)1: Chlorine gas room has an exhaust system.

15.4(4)n(1)2: An air intake provided near the ceiling.

15.4(4)n(1)3: The exhaust fan shall be operated from a switch labeled "Chlorine Exhaust Fan" in a nearby location outside the chlorine room or building.

15.4(4)n(1)4: Discharge from exhaust system outside of pool enclosure

15.4(4)n(1)5: Artificial lighting provided in chlorine room

15.4(4)n(1)7: A plastic bottle of commercial strength ammonia solution for leak detection.

15.4(4)n(2)1: Chlorine gas cylinders are individually anchored with safety chains or straps

BATHHOUSE

S U N/A

15.4(5): Showers, dressing rooms & sanitary facilities are clean & free of debris.

15.4(5)a-b: Floors slip-resistant and maintained without standing water.

15.4(5)c: Carpet not in wet areas of the bathhouse/dressing area.

15.4(5)d: Lavatories, showers & sanitary facilities functional.

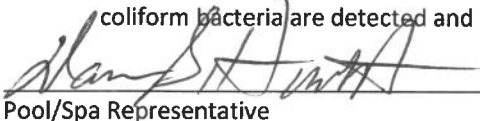
15.4(5)e: Soap at each lavatory and indoor shower fixtures.

15.4(4)m(1) & 15.51(4)j(1): Electrical outlets in the public dressing, lavatory, and shower areas are protected by GFCI receptacles at the outlet or breaker serving the outlet.

FACILITY ACKNOWLEDGEMENT

If any of the conditions identified below occur during operation of the swimming pool or spa, the owner or their representative (i.e. CPO, Lifeguard, Manager, etc.) must immediately close the pool/spa and document the closure in the daily logs in accordance to 641 IAC Chapter 15. The pool or spa must remain closed until proper operating conditions are achieved and recorded in the daily logs.

- The swimming pool shall be closed if the free chlorine measurement is less than 0.6 ppm or the total bromine measurement is less than 1.0 ppm.
- The spa shall be closed if the free chlorine measurement is less than 1 ppm or the total bromine measurement is less than 2.0 ppm.
- The spa shall be closed if the temperature is greater than 104°.
- The swimming pool or spa shall be closed if the free chlorine measurement is greater than 8.0 ppm or the total bromine measurement is greater than 18.0 ppm.
- The swimming pool or spa shall be closed if the ORP is less than 650 mV or greater than 880 mV.
- The swimming pool or spa shall be closed if the pH measurement is less than 6.8 or is greater than 8.2.
- The swimming pool or spa shall be closed if the cyanuric acid measurement is greater than 80 ppm.
- The swimming pool or spa (when the spa agitation system is off) shall be closed if the main drain is not clearly visible. (This can be caused by problems such as poor water clarity, surface reflection, and/or inadequate lighting.)
- The swimming pool or spa shall be closed if submerged suction outlets (drain cover, equalizer cover, feature outlets, etc.) are missing or broken.
- The swimming pool or spa shall be closed when chemical additions are made from the deck for at least one-half hour or until the disinfectant residual returns to acceptable levels
- Two consecutive positive test results for coliform bacteria. (After the first positive result, the local inspection agency office should be contacted, and the pool shall be superchlorinated (the addition of chlorine disinfectant compound to a concentration of at least 10 ppm free chlorine) at the facility's earliest convenience but not to exceed 24 hours. A recheck sample shall be taken once the disinfectant residual returns to acceptable levels. The pool shall be closed if the second sample is positive and may reopen once no coliform bacteria are detected and the above listed requirements are met.



Pool/Spa Representative

6-16-2021

Date

IDPH Representative

Date

*The inspection reviewed the facility in relation to the particular requirements of 641 IAC Chapter 15 identified above. The inspection is limited in scope and time noting observed deficiencies. Deficiencies may have occurred before the inspection, may occur after the inspection, or may not have been directly observable by the inspector at the time of inspection. The inspection in no way waives any of the requirements of 641 IAC Chapter 15 and the facility will be required to correct any deficiencies identified through future inspections. The inspection does not review any other local, state, or federal laws, ordinances, regulations, or requirements that may apply to this facility.

NOTIFICATION OF DEFICIENCIES AND REQUEST FOR CORRECTIVE ACTION
Enforcement 641 15.6(135I)

A list of the deficiencies that were identified in the inspection report require a Corrective Action Plan. Please respond within **10 days** of receipt of the report to the identified deficiencies by completing a Corrective Action Plan with an explanation of how the deficiencies will be corrected and the timeframe. If a deficiency cannot be completed before you respond, you must set a fixed time for correction. Failure to respond within the required timeframe may result with enforcement action against your facility pursuant to Iowa Code 135I and 641 IAC 15.6.

