

Environmental health checklist when responding to a single *Legionella* case with spa exposure

Records review & discussions for management

- 1. Visit the establishment and review the pool and spa logs for the last month to see if they have been running appropriately. Provide copy of logs to Epi.
- 2. Have there been any complaints from patrons or staff?
- 3. Provide *Legionella* factsheet to management and ask that they share information on the signs and symptoms of *Legionella* with all staff. <u>Legionnaires' Disease (state.mn.us)</u>
- 4. Provide CDC best practices guide to management as a resource: <u>Disinfection of Hot Tubs</u> that Contain Legionella (cdc.gov).
- 5. If the facility is a vacation home rental, here are some additional resources that may be useful:
 - a. Considerations for Vacation Rental Owners and Managers (cdc.gov)
 - b. Residential Swimming Pool and Spa Rentals (PDF)
- 6. Have there been any maintenance issues (broken pump, spa closed, etc.)? If so, what issues and when?
- 7. Ask management how often they clean, scrub, and refill the spa.
- 8. Are there any water features onsite? (e.g., decorative fountains, kiddie pool spray features, etc.) Ask management how often are those cleaned and how?

Observations and spa check

- 9. Check the chemicals in the spa and see if they are at appropriate levels.
- 10. Check the walls and skimmers of the spa for any biofilm or slime build-up.
- 11. How is the ventilation in the pool area?
- 12. If you notice slime/biofilm buildup in the skimmers/spa walls or spa logs or chemicals appear off the establishment should plan for a remediation step.
 - i. Drain the spa then scrub and clean walls, skimmers, etc.
 - ii. Backwash sand filters.
 - iii. Refill the spa and then hyperchlorinate.
 - 1. Maintain chlorine at 20ppm for a total of 10 hours.
 - 2. During the 10 hours, leave the jets off for the first hour and then run the jets for the remaining 9 hours.

3. Let the spa levels come down naturally (no dechlor) to acceptable levels before reopening.

Additional follow-up for establishments with more than one sporadic case within a year

- 13. Close the spa immediately.
- 14. Collect samples using the Legionella Sampling Instructions provided by Epi.
- 15. Follow CDC guidance to disinfect the spa. <u>Disinfection of Hot Tubs that Contain Legionella (cdc.gov)</u>.
- 16. Additional questions to ask management:
 - a. What type of filter(s) do they use? (sand, diatomaceous earth, cartridge)
 - b. When was the filter(s) last changed?
 - c. When were the filter(s) last backwashed?
 - d. Date spa was last drained and scrubbed?
 - i. What is their normal procedure for draining and cleaning the spa? Are they physical scrubbing spa to remove biofilm?
- 15. Once samples are taken and remediation is complete, EH and Epi can discuss next steps for reopening of the spa.