

# Fecal Incident Response at Aquatic Venue



**Clermont County  
Public Health**  
Prevent. Promote. Protect.

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	Formed fecal matter	Diarrhea (in water with chlorine stabilizer)	Diarrhea (in water chlorine stabilizer) Chlorine stabilizer (cyanuric acid, dichlor & trichlor) slows the rate at which free chlorine inactivates Crypto
<b>Main Concern</b>	Spread germs including moderately chlorine tolerant Giardia	High-risk event for contamination caused by Cryptosporidium – an extremely chlorine-tolerant parasite	High-risk event for contamination caused by Cryptosporidium – an extremely chlorine-tolerant parasite
<b>Step #1</b>	Close aquatic venue	Close aquatic venue	Close aquatic venue
<b>Step #2</b>	Remove as much fecal matter as possible *DO NOT VACCUM	Remove as much fecal matter as possible *DO NOT VACCUM	Remove as much fecal matter as possible *DO NOT VACCUM
<b>Step #3</b>	Check Free Chlorine (FC), pH and temperature	Check Free Chlorine, pH and temperature	Check Free Chlorine (FC), pH, temperature, cyanuric acid level
<b>Step #4</b>	Adjust and maintain at one of the following: <b>1 ppm FC, ≤7.5 pH, ≥77°F for 45 minutes or 2 ppm FC, ≤7.5 pH, ≥ 77°F for 25 -30 minutes or 3 ppm FC, ≤7.5 pH, ≥77°F 19 minutes</b>	Adjust and maintain at one of the following: <b>10 ppm FC, ≤7.5 pH, ≥77°F for 22.5 hours or 20 ppm FC, ≤7.5 pH, ≥ 77°F for 12.5 hours or 40 ppm FC, ≤7.5 pH, ≥77°F 6.5 hours</b>  <b>*15,300/FC ppm = Time required to inactivate or kill Crypto</b>	Adjust and maintain at one of the following if cyanuric acid level is 1-15 ppm: <b>20 ppm FC, ≤7.5 pH, ≥77°F for 28 hours or 30 ppm FC, ≤7.5 pH, ≥ 77°F for 18 hours or 40 ppm FC, ≤7.5 pH, ≥77°F 8.5 hours</b>  <b>*If the cyanuric acid concentration is more than 15 ppm, lower the concentration to 1–15 ppm by draining partially and adding fresh water without chlorine stabilizer before attempting to hyper chlorinate.</b>
<b>Step #5</b>	Backwash & clean or replace filters, skimmers, gutters, and strainers	Backwash & clean or replace filters, skimmers, gutters, and strainers	Backwash & clean or replace filters, skimmers, gutters, and strainers
<b>Step #6</b>	Test water to verify if FC & pH are within normal operating range	Test water to verify if FC & pH are within normal operating range	Test water to verify if FC & pH are within normal operating range
<b>Step 7#</b>	Document incident	Document incident	Document incident

*Hot tubs/spas, and some water playgrounds, can have much smaller amounts of water. In response to formed or diarrheal fecal incidents in small-volume venues, it might be more efficient to completely drain as much water as possible from the venue and associated plumbing; scrub and clean all accessible surfaces in contact with contaminated water; replace or clean filter media when appropriate, and refill with uncontaminated water from an approved source.*