



## **Open Water Safety Plan**

### **Application Instructions**

- Before applying for a USMS open water sanction, event hosts must review their event information and safety plans with their LMSC Sanctioning Officer. Upon approval from the LMSC Sanctioning Officer, the event host is then ready to apply for sanction.
- When applying for a USMS open water sanction, event hosts are required to submit their safety plan for review and approval by the Open Water Compliance Coordinator (OWCC) ON THIS APPLICATION through the online sanction process. We welcome additional supporting information—after all, many event hosts have developed extensive safety plans over years of hosting events—but everyone must submit this completed application to ensure that all pertinent points are covered in safety planning.
- Using a Google Earth map or equivalent, event hosts are also required to upload a map of the venue and course with the safety plan application. Maps must include locations of start & finish, guide & turn buoys, feeding stations, safety craft, lifeguards/first responders, on-site medical care, and evacuation points.
- In the best scenario, the Safety Director should assist the event host in the developing the event safety plan. If the Safety Director did not take part in developing of the safety plan (usually in the case of appointment after the sanction request or in the case of a substantially unchanged safety plan developed over years of experience), the event host must give the Safety Director a copy of the approved safety plan.
- Upon request, USMS OWCC David Miner will send you a copy of the approved safety plan. Contact David at [openwateradvisor@usmastersswimming.org](mailto:openwateradvisor@usmastersswimming.org) or 941-545-9709.

# Open Water Safety Plan Application

## Event Information

### General Information

Name of Host: [Rice Aquatics Masters](#)  
Name of Event: South Central Zone Grand Prix, Lake Longhorn Open Water Roundup  
Event Location: Lake Longhorn  
City: League City State: TX LMSC: GULF  
Event Dates: 4/16/2023 through 4/16/2023  
Length of Swim(s): 1.25K, 2.5K, 5k  
Dual Sanctioned with USA-Swimming: No

### Key Event Personnel

Event Director: [Seth Huston](#). Phone: 7135393041 E-mail: [shuston@rice.edu](mailto:shuston@rice.edu)  
Referee: [Louis Davis](#). Phone: 2814143585 E-mail: [louis.davis1776@gmail.com](mailto:louis.davis1776@gmail.com)  
Certified Safety Director: [Jessica Benoy](#). Phone: 9794224880 000-000-0000 E-mail: [jkb12@rice.edu](mailto:jkb12@rice.edu)

### Pre-Race Safety Meeting (required): all officials & safety personnel must attend

Tentative date: 4/15/2023 Time: 4:00pm.

Tentative agenda: [Discuss protocol for: Registration, emergency plan, water entry, start, course layout and area assignments, finish chute and exit, recording times.](#)

### Pre-Race Swimmer Meeting (required): all officials & swimmers must attend to participate in race

Tentative date: 4/16/2023 Time: [Enter time](#).

Tentative agenda: Share course layout, water entry, start protocol, distressed swimmer actions, finish chute and lake exit.

## Course & Event Conditions

### The Course

Body of water: Lake Water type: Fresh Water Water depth from: 3 feet to: 30 feet

Course: Closed-only event watercraft allowed

If open course, indicate the agency used to control the traffic while swimmers are on the course.

Agency name: none How to contact during event: none

Expected water conditions for the swimmers: (marine life, tides, currents, underwater hazards): Comfortable water temperature with no current, possible winds creating chop or no wind with calm water, minimal marine comprising of turtles and freshwater fish.

How is the course marked?

- Turn buoy(s): Height(s) 4 feet      Color(s) orange      Shape(s) circular
- Guide buoy(s): Height(s) 2 feet      Color(s) orange      Shape(s) circular
- Approximate Distance between Guide buoys: 300-500 meters

Number of Feeding Stations: 0

Type of structure(s) used as feeding station(s): [Click here to describe feeding stations](#)

Number of people the structure(s) can safely hold: [Click here to enter number.](#)

### Water & Air Temperatures

Expected air temp range: 80    Expected water temp range: 80      Wetsuits: Optional

#### **USMS Water Temperature Index for sanctioned open water events:**

- Below 57°F (Very Cold) – heat retaining swimwear and a Thermal Plan for Cold Water Swims is **REQUIRED**
- 57°F-60°F (Cold) - heat-retaining swimwear is required or a Thermal Plan for Cold Water Swims is **REQUIRED**
- 60°F-66°F (Quite cool) - Thermal Plan for Cold Water Swims is **RECOMMENDED**
- 66°F-72°F (Fairly cool) - Thermal Plan for Cold Water Swims is **ENCOURAGED**
- 72°F-78°F (Cool) - No Thermal Plan required
- 78°F-82°F (Optimal) - Heat-retaining swimwear & neoprene caps are not permitted above 78°F.
- 82°F-85°F (Warm) - Thermal Plan for Warm Water Swims is **RECOMMENDED**
- 85°F-87.8°F (Very warm) - Thermal Plan for Warm Water Swims is **REQUIRED**
- 87.8°F-95°F (Hot) - Sanctioned open water swims cannot be held
- Over 95°F (Extremely hot) - Any swimming is ill-advised

**USMS Water Temperature Measurement Procedure:** Using an accurate thermometer, the event host should take three to five measurements at various places on the course—12 to 18 inches below the water surface and no closer to the shore than 25 meters (if possible)—within one hour before the start of an open water swim. The host should average these measurements, post and/or announce the resulting average temperature at least 30 minutes before the start of the swim, and announce it during the pre-race staff safety and swimmers' meetings.

### Water Quality

It is recommended that one week before the event, check water quality. If results returned are inconsistent with the local governing body's standards, notify swimmers who participated in the event of any known exposures post-race. If an exceptional event such as heavy rain or flooding affects the water quality, the Event Director, Referee, or Safety Director shall have the authority to postpone or cancel the race. It is recommended to take and retain water samples on race day and retain for reference.

Lake Longhorn has water checked monthly in order to stay open to public.

## Event Safety

### Medical Personnel

Lead medical personnel (emergency trained) on site: Sarah Schodrof, EMT

Experience in sporting events (Marathon, Triathlon, Open water swim, etc.):      Yes

Will medical personnel be located on the course?      No

The number of medical personnel will be dependent on the course layout, number of swimmers in the water, expected conditions, etc. How many medical personnel do you plan to have on site? 2

### **First Responders/Lifeguards & Monitors**

Indicate the qualifications of the first responders: ARC Lifeguards

Number on course: 6

Number on land: 2

Indicate their location on the Race Plan Map

### **Onsite Medical Care & Facilities**

Describe onsite set up for medical care, such as medical treatment tent, heating/cooling tent or facility. etc., and indicate locations on the Race Plan Map. Athletic Trainer

### **Ambulance/Emergency Transportation & Nearby Medical Facilities**

Ambulance(s) onsite: Phone # or radio channel      On Call: League City Fire and Rescue 911

Have you spoken with local emergency response agency regarding potential emergencies? No

Closest medical facility: Next Level Urgent Care

Phone: 281-783-8162

Type of medical facility (urgent care, hospital, etc.): Urgent Care

Distance to closest medical facility: 0-2 miles      Approximate transport time: 3 minutes

### **Watercraft**

Motorized Watercraft:

- Owned/operated by government agencies (Coast Guard, police, fire & rescue, etc.): 0
- Owned/operated by volunteers or hired individuals: 2

Will all motorized watercraft with a propeller owned/operated by volunteers or hired individuals be equipped either with a propeller guard or a swimmer monitor? No

Other motorized watercraft:

- With propellers fore of the rudder: 0
- With impeller motor (jet ski, jet boat): 1
- Anchored from start to finish: 0

Allocation of Watercraft:

- Safety Watercraft:
  - 1st Responders: Motorized: 0 Non-motorized: 6
  - 2nd Responders: Motorized: **1** Non-motorized: **0**
- Watercraft for race officials: Motorized: 1      Non-motorized: 0
- Watercraft for race supervision: Motorized: 0      Non-motorized: 0
- Watercraft for feeding stations: Motorized: 0 Non-motorized: 00
- Watercraft for escorted events: Motorized: 0      Non-motorized: 0
- Other event watercraft: 0

Emergency Signal Flag Color for all watercraft: orange

### **Communications**

Primary method between event officials: Cell Phone Secondary method: Megaphone/Bullhorn

Primary method between medical personnel, first responders & safety craft: Cell Phone

Secondary method: Megaphone/Bullhorn

### **Swimmer Counting & Accountability**

Describe method of swimmer body numbering: Sharpie on both shoulders and hands

Describe method of electronic identification of swimmer (Recommended): none

Describe different bright cap colors for various divisions (Recommended): Yellow, orange and green

Describe method of accounting for all swimmers before, during and after swim(s): Count and log race numbers before entry

Describe method of accounting for swimmers who do not finish: report to scorers table

### **Warm-up/Warm-down Safety Plan**

Describe safety plan for warm-up/warm-down, include number and location of lifeguards and designated watercraft. Swim out and back from 1<sup>st</sup> buoy to 4<sup>th</sup> buoy, 3 kayak guards and start/finish guard watching course.

### **Swimmer Management**

Maximum number of swimmers on course at a time: 100

If more swimmers show up on the day of the swim(s), how will you adjust the safety plan to accommodate the increased number of entries? We will stagger short race and mid distance race

How will you deploy the safety staff and crafts distributed to supervise this event to ensure swift recognition, rescue, and treatment of any swimmer? One kayak at or near each turn buoy; 1 kayak following trailing swimmer for each distance.

How will you deploy the safety staff to maximize rapid response to a troubled swimmer? Distressed swimmer will be attended by nearest kayak guard, who will call safety captain, if swimmers needs emergency assistance then the jet ski will be sent to pick up swimmer.

How will you alter the event if insufficient safety personnel/craft are available on the day of the swim(s)? We will shorten the course.

Describe your missing swimmer plan: we will make contact with swimmer by cell, we will have kayakers and jet ski comb the course in unison.

### **Severe Weather Plan**

Is a lightning detector or weather radio available on site? No

Describe your plan for severe weather or natural disaster: Lightning or storms moving in may delay the start of the event. Lightning within 8 miles will notify guards, and sound air horn from start/finish area and guards will blow whistles. All swimmers will be told to exit the lake at the nearest land point.

Describe your course and site evacuation plan, including accounting for all swimmers and other participants: all swimmers will report to scorers table or send text to meet director. Each athlete will be checked off upon self report.

## Thermal Plan for Cold Water Swims

### General Information

Thermal Plan for Cold Water Swims: USMS Rules for Open Water Swims state:

- 302.2.2A (1) A swim shall not begin if the water temperature is less than 60° F. (15.6° C.), unless heat-retaining swimwear is required of all swimmers or a USMS-approved thermal plan is in place.
- 302.2.2A (2) A swim in which heat retaining swimwear is required of all swimmers shall not begin if the water temperature is less than 57° F. (13.9° C.), unless a USMS-approved thermal plan is in place.

Remember that the average masters swimmer does little or no acclimatization to cold water, so even a small drop in water temperature—especially in the colder ranges—dramatically increases the odds of thermal issues: Cold Shock Response, Cold Incapacitation, Hypothermia, and Circum-rescue Collapse). Be Prepared!

- If your swim course has a remote chance of water temperature less than 60° F., you are **REQUIRED** to complete the thermal plan below, showing your specific commitment to increased swimmer preparation before the event, reduced swimmer exposure during the event, and maximize mitigation & treatment of thermal issues during & after the event.
- If your swim course has a chance of water temperature between 60° F & 66° F., a thermal plan is **RECOMMENDED**.
- If your swim course has a chance of water temperature between 66° F & 72° F., a thermal plan is **ENCOURAGED**.

### How will you assist swimmer preparation before the event:

The following methods are among the ways you can do this:

1. Emphasize & stress on entry information of possible cold water swim conditions.
2. Require prior cold water swim experience.
3. Require swimmer cold water preparation plan.
4. Refuse entry if swimmer is not acclimated to cold water swimming.

What method(s) of swimmer preparation will you take: [Click here to enter text.](#)

### What action will you take to reduce swimmer exposure to thermal issues:

The following methods are among the ways you can do this:

1. Cancel the swim(s).
2. Shorten swim(s) or institute/shorten time limits.
3. Encourage wetsuits for all swimmers.
4. Require wetsuits for all swimmers.

Explain your plan of action: [Click here to enter text.](#)

### What extra medical care will you provide to mitigate & treat symptoms of thermal issues:

The following methods are among the ways you can do this:

1. Bring in more emergency trained medical personnel and/or ambulances.
2. Bring in more volunteers to assist medical personnel.
3. Bring in more emergency craft and first responders on the course.
4. Increase warm beverages before the swim and at feeding stations.

5. Have special procedures (different than normal) for removing swimmers from the water & venue.
6. Increase warm beverages after the swim.
7. Increase thermal treatment gear (blankets, hot water bottles, etc.)
8. Make warm showers available on-site.
9. Make warming facilities (buildings, tents, vehicles, etc.) available on-site.
10. Other: hydration

Specify what extra listed items you will provide: beverages and snacks to aid in electrolyte and hydration

Comment on how you will be prepared to care for multiple medical issues: we have an athletic trainer and head life guard and will call EMT if medical issues expand.

**If the water temperature is below 72° F, will you be prepared to deal with cold water medical issues:** it will not be that cold.

## Thermal Plan for Warm Water Swims

General Information
Thermal Plan for Warm Water Swims: USMS Rule 302.2.2A(3) for Open Water Swims states: “A swim of 5K or greater shall not begin if the water temperature exceeds 29.45° C. (85°F.). A swim of less than 5K shall not begin if the water temperature exceeds 31° C. (87.8°F.).”
Remember that the average masters swimmer does little or no acclimatization to warm water, so even a small increase in water temperature—especially in the warmer ranges—dramatically increases the odds of thermal issues: Dehydration, Heat Stroke, and Hyperthermia. Be Prepared!
- If your swim course has a chance of water temperature from 85° F to 87.8° F, you are <b>REQUIRED</b> to complete the thermal plan below, showing your specific commitment to increased swimmer preparation before the event, reduced swimmer exposure during the event, and maximize mitigation & treatment of thermal issues during & after the event. - If your swim course has a chance of water temperature between 82° F & 85° F., a thermal plan is <b>RECOMMENDED</b> .

<b>How will you assist swimmer preparation before the event:</b>
--

**The following methods are among the ways you can do this:**

1. Emphasize & stress on entry information of possible warm water swim conditions.
2. Require prior warm water swim experience.
3. Require swimmer warm water preparation plan.

What method(s) of swimmer preparation will you take: Pre race email will remind swimmers of importance of hydration and electrolyte balance.

<b>What action will you take to reduce swimmer, official, and staff exposure to heat-related issues:</b>
--

**The following methods are among the ways you can do this:**

1. Cancel the swim(s).
2. Shorten swim(s) or institute/shorten time limits.
3. Remind all participants to stay well hydrated.
4. Remind swimmers to select appropriate pace.
5. Make swim caps optional or use Lycra swim caps.

Explain your plan of action: we are starting the race early in the day before the sun and temperature are too high.

<b>What extra medical care will you provide to mitigate &amp; treat symptoms of heat-related issues:</b>
--

**The following methods are among the ways you can do this:**

1. Bring in more emergency trained medical personnel and/or ambulances.
2. Bring in more volunteers to assist medical personnel.
3. Bring in more emergency craft and first responders on the course.
4. Increase cool beverages before, during and after the swim (for swimmers and staff, including extra cool beverages on watercraft and feeding stations)

5. Increase heat exhaustion and heat stroke treatment gear (iced water, ice chips, cold water bottles, misting tents/fans, etc.)
6. Make cool showers available on-site.
7. Make shade and cooling facilities (buildings, tents, etc.) available on-site.
8. Other: none

Specify what extra listed items you will need to provide: We will have cool beverages, tent and ice chest for inflammation or over heating.

**Comment on how you will be prepared to care for multiple medical issues:** We have an athletic trainer, head life guard and can call EMS if necessary

**If the water temperature is above 82° F, will you be prepared to deal with heat-related medical issues:** yes, the swims are short and we will have kayakers carrying cool beverages to distribute if requested.