**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 Bill Roach will send you a copy of the approved safety plan. Contact Bill at wfroach@att.net or 317-989-3164.

**Open Water Safety Plan Application**

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## Event Information

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| **General Information** |

Name of Host: District of Columbia Aquatics Club

Name of Event: 27th Annual Maryland Swim For Life

Event Location: Rolph’s Wharf

City: Chestertown State: MD LMSC: PV LMSC

Event Dates: 6/23/2018 through 6/23/2018

Length of Swim(s): 1,2,2.4, 3, 4, and 5 miles

Dual Sanctioned with USA-Swimming: No

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| **Key Event Personnel** |

Event Director: Ross Linderman. Phone: 206-419-6654 E-mail: ross.a.linderman.cpa@gmail.com

Referee: Peter Lee Phone: 202-413-8353 E-mail: peter.lee@treasury.gov

Certified Safety Director: Katie PumphreyPhone: 301-639-3483 E-mail: pumphreykatie@gail.com

| **Pre-Race Safety Meeting (required):** **all officials & safety personnel must attend** |
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Tentative date: 6/23/2018 Time: 8am.

Tentative agenda: review course, communications, weather, get report from river keeper and USCG. Discuss any swimmer issues or course issues. Assign locations for kayak flotilla and communication amongst flotilla and motorcraft. Provide everyone radio channels and cell phone.

| **Pre-Race Swimmer Meeting (required):** **all officials & swimmers must attend to participate in race** |
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Tentative date: 6/23/2018 Time: 830 AM

Tentative agenda: Review the course and any water or other issues (tides, quality of water, any hazards), procedures for entering and exiting the water, signals in case of emergency. Go over warm water (or unlikely event cold water) plan and swimmer interaction with the kayak flotilla. Communicate the key points of the safety plan.

**Course & Event Conditions**

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| **The Course** |

Body of water: River Water type: Salt Water Water depth from: 3feet to: 40 feet

Course: Open - non-event watercraft allowed near swim course

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

 Agency name: USCG & MD DNR How to contact during event: Cell phone or radio to be provided by crew at safety meeting.

Expected water conditions for the swimmers: (marine life, tides, currents, underwater hazards): brackish water, approximately 80 degrees expected, mild tidal conditions, minimal marine life.

How is the course marked?

* Turn buoy(s): Height(s) 6ft Color(s) yellow Shape(s) pyramid
* Guide buoy(s): Height(s) na Color(s) na Shape(s) na
* Approximate Distance between Guide buoys: na

Number of Feeding Stations: 0

Type of structure(s) used as feeding station(s): kayaks will have lmited food and water for the 4 and 5 mile event

Number of people the structure(s) can safely hold: na

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| **Water & Air Temperatures** |

Expected air temp range: 85 Expected water temp range: 78-82 Wetsuits: Optional based on race day conditions

**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**

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| **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. |

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| **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.  |

We check publicly posted information by MD DNR every week beginning in mid may. Additionally we receive course and water updates from the Chester River Riverkeeper who we have a long running partnership with.

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## Event Safety

| **Medical Personnel** |
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Lead medical personnel (emergency trained) on site: Patrick Barrett, M.D.

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

Will medical personnel be located on the course? Yes

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? 5

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| **First Responders/Lifeguards & Monitors** |

Indicate the qualifications of the first responders: ARC Lifeguards

Number on course: 0 Number on land: 2

Indicate their location on the Race Plan Map. At the start/finish location

| **Onsite Medical Care & Facilities** |
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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. We maintain an indoor structure for race day that we use for medical attention and heating and cooling as necessary. We also inform local ems about the event, and they usually elect to have emt’s on location with ambulance capabilities. If they are not onsite, the location of the facilities are within 5 miles.

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

Ambulance(s) onsite: See above. On Call: 410-758-6552

Have you spoken with local emergency response agency regarding potential emergencies? Yes

Closest medical facility: Chester River Hospital Center Phone: 410-778-3300

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

Distance to closest medical facility: 2-5 miles Approximate transport time: 5minutes

| **Watercraft** |
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Motorized Watercraft:

* Owned/operated by government agencies (Coast Guard, police, fire & rescue, etc.): 1 to 2
* Owned/operated by volunteers or hired individuals: 2-3

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? Yes

Other motorized watercraft:

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

Allocation of Watercraft:

* Safety Watercraft:
* 1st Responders: Motorized: 2 Non-motorized: 10

# 2nd Responders: Motorized: 1-2 Non-motorized: 10

* Watercraft for race officials: Motorized: 0 Non-motorized: 0
* Watercraft for race supervision: Motorized: 1-2 Non-motorized: 10
* Watercraft for feeding stations: Motorized: 0 Non-motorized: 0
* Watercraft for escorted events: Motorized: 0 Non-motorized: 0
* Other event watercraft: 1-2 craft and approximately 10 kayaks will monitor the race course and will serve as second responders. 2 motorized craft will carry first responders and approximately 10 kayaks will act as first responders to any distressed swimmers.

 Emergency Signal Flag Color for all watercraft: bright orange

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| **Communications** |

Primary method between event officials: Cell Phone Secondary method: Radio

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

Secondary method: Radio (separate channel from Meet Officials)

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| **Swimmer Counting & Accountability** |

Describe method of swimmer body numbering: Click written on cap, arm, matched to their timing chip

Describe method of electronic identification of swimmer (Recommended): timing chips with numbers

Describe different bright cap colors for various divisions (Recommended): each distance has a separate color

Describe method of accounting for all swimmers before, during and after swim(s): timing system as primary, two backup timers with manual records, meet director and safety director with independent verification lists to ensure all swimmers accounted for at all times.

Describe method of accounting for swimmers who do not finish: required to provide their timing chip at finish, required to provide name to the DNF pier, and to the motorcraft who pulled the swimmer out of the water. Motorcraft also radio the numbers to the race director for independent check.

| **Warm-up/Warm-down Safety Plan** |
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Describe safety plan for warm-up/warm-down, include number and location of lifeguards and designated

watercraft. Warm up and warm down is available in the river near the start/finish line. Lifeguards are stationed at the beach.

| **Swimmer Management** |
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Maximum number of swimmers on course at a time: 250

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 do separate heats of the short events so that it limits the number of swimmers in the water at any one time.

How will you deploy the safety staff and crafts distributed to supervise this event to ensure swift recognition, rescue, and treatment of any swimmer? We station kayakers at each of the turns, between the turns (to act as guides primarily) and we have a pair (minimum) of kayakers who follow each heat of swimmers. We generally provide more kayakers to the longer distances. The motorcraft are generally at the mid point and the end, with the Coast guard patrolling the channel to keep boats clear of the swim course.

How will you deploy the safety staff to maximize rapid response to a troubled swimmer? Kayakers monitor swimmers in each distance and report any issues and radio in the watercraft should a swimmer need to exit the event. The course is quite shallow as well, so we encourage swimmers who are having trouble to stand and rest and communicate with the kayak team.

How will you alter the event if insufficient safety personnel/craft are available on the day of the swim(s)? we will limit swimmers or distances or both.

Describe your missing swimmer plan: Verify all data sources to ensure we aren’t just in clerical error. We provide the kayakers a certain number of swimmers to keep count of in their “heats” so that any missing swimmers are discovered quickly. Should a swimmer continue to be missing, we will deploy additional kayak and watercraft to search the area of the swimmers course/distance. We will simultaneously send a team to look on shore, which parallels the race course.

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| **Severe Weather Plan** |

Is a lightning detector or weather radio available on site? Yes

Describe your plan for severe weather or natural disaster: We will clear the course and get swimmers to shore or back to the starting point if safe to do so. If it is not safe to be in the water we instruct swimmers to shelter in place on the shore until the watercraft can pick them up or can tell them it is clear to continue to swim.

Describe your course and site evacuation plan, including accounting for all swimmers and other participants: The course site is a slow moving river, along one side of the shore. The swimmers can take refuge on the shore, but will need to either swim back to the starting point or be taken back by watercraft as the shore growth is too thick to traverse otherwise. All swimmers are accounted for through inventory of the timing chips, recording of finishers and non-finishers by the timers, with a backup done by the safety team (race director and safety director).

## Thermal Plan for Cold Water Swims

| **General Information** |
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| 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**. |

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| **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: NA- cold water not an issue for this event.

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| **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: na

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| **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: Specify

Specify what extra listed items you will provide: na

Comment on how you will be prepared to care for multiple medical issues: na

**If the water temperature is below 72° F, will you be prepared to deal with cold water medical issues:** We have not experienced water temperatures below 72 degrees for this swim in recent recorded experience.

## Thermal Plan for Warm Water Swims

| **General Information** |
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| 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 **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 82° F & 85° F., a thermal plan is **RECOMMENDED**.  |

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| **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 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: Our swim has usually not exceeded 84 degrees, however we believe there is some risk of warm water issues, so we have made this part of our planning. We discuss the issues related to warm water swimming with the swimmers before and during the safety meeting. We provide water and cooling stations before, during, and after the swim. We encourage swimmers having any difficulty to contact the kayaks or motorized craft and encourage them to rest (including standing up in the course) and consider not finishing the event.

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| **What action will you take to reduce swimmer, official, and staff exposure to heat-related 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. 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: In recognition of warmer swim temperatures, the first thing we did was to move the event 3 weeks earlier in the year. We believe this will have a substantial effect on the temperature so we will be very likely to be in “optimal” conditions. That said, in addition we have provided water and cooling stations, will shorten or cancel the swim if conditions merit, and will limit or forbid the use of wetsuits.

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| **What extra medical care will you provide to mitigate & treat symptoms of heat-related 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 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: Specify

Specify what extra listed items you will need to provide: we have more available EMS personnel available, and have added extra shade tents. Last year we added additional showers to the cooling station, a well as access to indoor air conditioned areas if needed.

**Comment on how you will be prepared to care for multiple medical issues:** multiple watercraft available to help swimmers out of the water if needed, we have multiple medical personnel who will be volunteering with the event, and have USCG, MD DNR, and county EMS on site or on call.

**If the water temperature is above 82° F, will you be prepared to deal with heat-related medical issues:** yes- we have medical volunteers with cardiac emergency training on site as well as EMS, USCG, lifeguards and MD DNR as described.