



ORM MATRIX



OPERATIONAL RISK MANAGEMENT MATRIX

OPERATION:				ORGANIZATION:		PREPARED BY:	DATE:
Whitewater rafting				Soul Survivor Outdoor (SSO)		Rick Wolf	
PHASE	HAZARD	CAUSES	INIT RAD	DEVELOP CONTROLS	RES RAC	HOW TO IMPLEMENT	HOW TO SUPERVISE
All	Death Broken bone Concussion Laceration Bruise Drowning	<ul style="list-style-type: none"> a. Fall from height b. Falling while walking/standing c. Heavy object or rock falls on Participants d. Fall out of boat. 	4 (II / C)	<ul style="list-style-type: none"> a. Licensed/professional white water instruction is conducted by New Wave Adventures, Denali, AK. b. Experienced instructor present and monitoring all rafting activities at all times. c. Instructors are certified by the Whitewater Rafting Institute. d. All instructions are followed. e. All maintain situational awareness. f. Lifevests and wetsuits a. All equipment will be inspected by instructor prior to use. b. Instructors will inspect all paddles and rafts (s). c. All equipment will be properly utilized and in place. d. All participants will wear a helmet while rafting. e. Proper life jacket and usage. f. Proper boat rigging g. Rafter and equipment will be inspected prior to rafting. h. Proper instruction and spotting by instructor will occur at all times. i. Proper commands and communication will be established by instructor and followed at all times. 	5 (III / D)	<ul style="list-style-type: none"> a. New Wave Adventures staff will brief all instructions to participants as well as the mitigating controls. b. Participants will follow all instructions of operation organizers. b. Rafting stops the moment anyone fails to abide by instructions. c. Anyone can call an audible if a problem arises or a danger is seen. d. Participants will remain with group at all times. 	<ul style="list-style-type: none"> a. New Wave Adventures, and SSO will pass importance of following instructions and ensure all Participants are in compliance will all instructions given by personnel from New Wave Adventure Guides. b. Operation organizer(s) oversee entire operation. Participants are responsible for their actions. c. Participants are responsible for their actions and will be held accountable by Participants Corps leadership.



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PHASE	HAZARD	CAUSES	INIT RAD	DEVELOP CONTROLS	RES RAC	HOW TO IMPLEMENT	HOW TO SUPERVISE
All	Broken bone / severe laceration or bruise	a. Tripping / Falling b. Heavy object falls on Participants	4 (III / C)	a. Follow instructions b. Remain with the group . c. Maintain situational awareness.	5 (IV / D)	a. New Wave Adventures, SSO and SNCOIC will brief this hazard to participants as well as the mitigating controls. b. Participants will follow instructions of operation organizers. c. Participants remains with group at all times.	New Wave Adventures and SSO conduct a safety brief prior to participants prior to departure from unit area. Operation organizer(s) oversee entire operation. Participants are responsible for their actions.
All	Sunburn	a. Long exposure to sunlight	2 (III / A)	a. Pre-stage sunscreen with gear the night prior. b. Use buddy system to apply sunscreen to hard to reach areas. c. Ensure all Participants wear the proper gear.	5 (IV / C)	a. First aid kit available during the trip. b. Extra sunscreen carried in first aid dry bag.	Same as above
All	Dehydration	a. Failure to hydrate prior to and during camping trip.	4 (III / C)	a. Ensure hydration system is full prior to execution of trip. b. Hydrate. c. Eat a balance breakfast the morning of the trip and snack throughout execution.	5 (IV / D)	a. Prepare a gear list and operation schedule prior to each execution. b. Use the gear list to prepare the night before.	Same as above
All	Vehicle accident	a. Failure to follow speed limits. b. DUI. c. Distracted driving. d. Unsafe vehicle e. Unforeseen actions of another driver.	3 (I / D)	a. Participants wears seatbelt at all times. b. Utilize gov transportation when possible.	5 (IV / D)	a. Participants observes driver prior to entering vehicle to assess if driver is sober. b. If driver is unsafe, Participants insists driver slow down and/or drive in a safe manner. c. Participants calls chain of command or 911, if required for assistance.	Same as above
All	Drowning	a. Failure of situation awareness. b. Failure to remain seated in raft.	4 (III / C)	a. Follow instructions. b. Remain with the group. c. Maintain situational awareness. d. Stay seated in raft.	5 (IV / D)	a. New Wave Adventures and SSO will brief this hazard to the Participants as well as the mitigating controls. b. Participants will follow instructions of operation organizers. c. Participants remains with group at all times.	New Wave Adventures and SSO conduct a safety brief prior to participants prior to departure from unit area. Operation organizer(s) oversee entire operation. Participants are responsible for their actions.



ORM MATRIX (Cont.)



<p><u>RISK ASSESSMENT CODE (RAC)</u> 1 – Critical, 2 – Serious, 3 – Moderate, 4 – Minor, 5 – Negligible</p>	<p>OVERALL RISK ASSESSMENT <u>Moderate/Negligible</u></p>	<p><u>COMMAND REVIEW APPROVAL</u></p>																														
<p><u>HAZARD SEVERITY</u></p> <p>I – CATASTROPHIC – Death, Permanent Disability, Major Property Damage.</p> <p>II – CRITICAL – Permanent Partial Disability, Major System or Property Damage.</p> <p>III – MARGINAL – Minor Injury, Minor System or Property Damage.</p> <p>IV – NEGLIGIBLE – First Aid, Minor System Repair.</p>	<p>RAC Assessment Code Matrix</p> <p>RAC CODE MATRIX</p>	<p>Command OIC _____</p> <p>Command S-3 _____</p> <p>BN CO/XO _____</p> <p>SSO Rep _____</p> <p>Date Completed _____</p>																														
<p><u>MISHAP PROBABILITY</u></p> <p>A – Frequent, B – Likely, C – Occasional, D – Unlikely</p>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <tr> <td rowspan="6" style="writing-mode: vertical-rl; transform: rotate(180deg);">HAZARD SEVERITY</td> <td colspan="4">MISHAP PROBABILITY</td> </tr> <tr> <td></td> <td>A</td> <td>B</td> <td>C</td> <td>D</td> </tr> <tr> <td>I</td> <td>1</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td>II</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>III</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> <tr> <td>IV</td> <td>3</td> <td>4</td> <td>5</td> <td>5</td> </tr> </table>	HAZARD SEVERITY	MISHAP PROBABILITY					A	B	C	D	I	1	1	2	3	II	1	2	3	4	III	1	2	3	4	IV	3	4	5	5	
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To Be Completed by Command