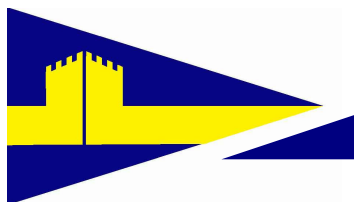


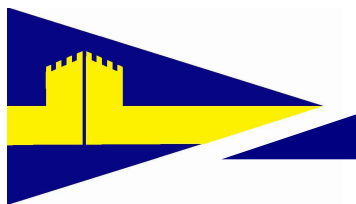
RISK ASSESSMENT REGISTER

LARGE BOAT HANDLING

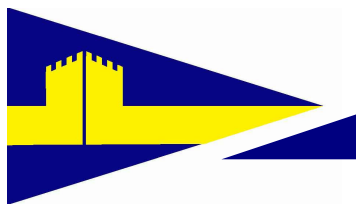
Version Number	Author	Date	Approved By	Date
One	Jim Watson	10.03.09	Exec Committee	10.03.09
Two	Jim Watson	01.10.09		13.10.09



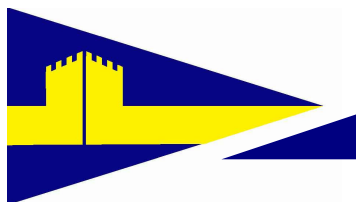
Risk	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action is necessary	Action by who?	Action by when?	Done
Mod	Tripping Boat keel blocks which are left in the yard before and after use	Pedestrians moving around the yard or slipway who do not notice them. Could cause sprain or fractures.	Remove blocks and other debris to edge of yard asap after boat lifted.	Issue warning notice Include instructions to members Standing instruction to Work Party to clear risk		01/04/09	
Mod	Tripping Head and stern ropes which are necessarily long and which hang down from boats being lifted.	Pedestrians moving around the yard or slipway who do not notice them. Could cause sprain or fractures	Keep feet clear of rope ends.	Issue warning instructions to members Standing instruction to Work Party to clear risk Restrict Access to untrained staff		01/04/09	
Low	Tripping Debris left behind after boats have been lifted	Pedestrians moving around the yard or slipway who do not notice them. Could cause sprain or fractures	Clear ground under and around boat before the boat is lifted.	Issue warning instructions to members Standing instruction to Work Party to clear risk		01/04/09	



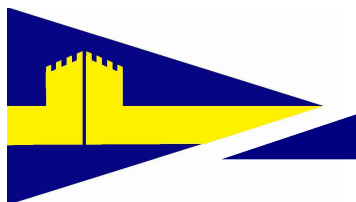
Risk	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action is necessary	Action by who?	Action by when?	Done
Low	Tripping Uneven ground in the yard and foreshore	Pedestrians moving around the yard or slipway who do not notice them. Could cause sprain or fractures	Take care when moving about the yard.	Issue warning instructions to members Standing instruction to Work Party to clear risk		01/04/09	
Mod	Tripping Loose rigging wires and halyards attached to lowered masts and spars on deck	Boat crew moving on deck, who do not notice them. Could cause sprain or fractures	Instructions to owners to secure wires tidily before the craning.	No further action required			
Mod	Slipping On decks contaminated with mud from lifting strops	Boat crew moving about on deck. Could cause sprain or fractures	Included in instructions to members - to tread carefully on deck, on the slipway and in the yard especially during inclement weather. Wear suitable footwear for the conditions prevailing.	No further action required			



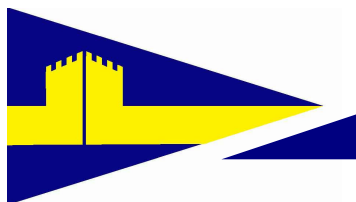
Risk	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action is necessary	Action by who?	Action by when?	Done
Low	Slipping On wet ground in the yard during rainy weather	Pedestrians moving around the yard or slipway. Could cause sprain or fractures	Included in instructions to members - to tread carefully on deck, on the slipway and in the yard especially during inclement weather. Wear suitable footwear for the conditions.	No further action required			
Low	Slipping On wet and muddy ground where strops are being hosed off on the slipway	Pedestrians moving around the yard or slipway. Could cause sprain or fractures	Included in instructions to members - to tread carefully on deck, on the slipway and in the yard especially during inclement weather. Wear suitable footwear for the conditions prevailing.	No further action required			
Mod	Moving Machinery Tractor, Sub Lift and boat trailer wheels	Pedestrians moving around the yard or slipway.	Take care when near the Sub Lift, tractor and trailer, especially when at the rear. Do not stand where the driver cannot see you. All bystanders to be kept clear and no children to be allowed in the yard. Place warning notices on public footpath.	Include instructions to members Access to yard restricted to crew Appoint and train Yard Safety Monitors to control pedestrian movement when Sub Lift is operating		01/04/09	



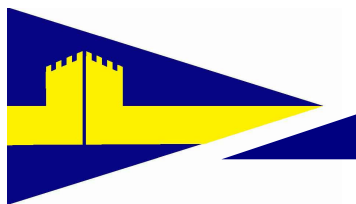
Risk	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action is necessary	Action by who?	Action by when?	Done
High	Moving Machinery Sub Lift hoisting arms and bars may strike pedestrians or crew	Pedestrians moving around the yard or slipway Banksmen supervising the lift Crew securing strops	Do not stand where the driver cannot see you. All bystanders to be kept clear and no children to be allowed in the yard. Warning notices placed on public footpath and entrances	Include instructions to members Issue hard hats & Hi Viz jackets to Banksmen and Crew Appoint and train Yard Safety Stewards to control pedestrian movement when Sub Lift is operating		01/04/09	
Mod	Moving Machinery Where tractor/trailer or Sub Lift crosses the public footpath	Pedestrians moving around the yard or slipway Pedestrians on footpath	Warning notices placed on public footpath and entrances Instructions to Tractor Drivers Instructions to Sub Lift Operators	Include instructions to members Post Yard Safety Stewards at gate when tractor is moving to warn pedestrians		01/04/09	
Mod	Moving heavy equipment Unsecured heavy items on deck such as masts and booms.	Pedestrians moving around the yard or slipway Crew moving about on deck could be injured if items fell during craning	Issued instructions to check that heavy items are properly secured on deck.	Include instructions to members Banksmen to remind Deck crew to check prior to fitting strops		01/04/09	



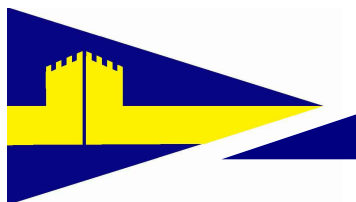
Risk	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action is necessary	Action by who?	Action by when?	Done
Low	Moving heavy equipment Lifting strops inadequately secured on the Sub Lift arms	Crew moving around the yard or slipway could be injured if load fell during hoist.	Issued instructions to check that strops are properly secured on arms Do not stand under lifted boats.	Banksmen to remind Deck Crew to check prior to fitting strops		01/04/09	
High	Moving heavy equipment Lifting Sub Lift ladder	Work Crew ladder could injure their backs if lifting incorrectly	Crew instructed to observe manual handling guidelines when lifting blocks – keep back straight and take strain on legs	Sub Lift Operator to remind Deck crew to check prior to moving		01/04/09	
Very High	Moving heavy equipment Placement of keel blocks under boats being lowered	Boat or Work Party crew moving under boats. Could suffer back pain from lifting or injury from descending boat	Use appropriate tools. Warn all crew to take care and only insert blocks when Banksmen instruct them to do so	Banksmen to instruct Deck crew when it is safe to insert blocks. Issue hard hats & Hi Viz jackets to Banksmen and Crew	JW	01/04/09	
Mod	Falls From ladders	Boat or Work Party crew climbing ladders to fix strops. Staff could suffer severe or even fatal injuries if they fall	Get someone to stand on the bottom rung when climbing temporarily unsecured ladders. Secure ladders where possible	Include instructions to members Banksmen to remind Deck crew to check prior to moving	JW	01/04/09	



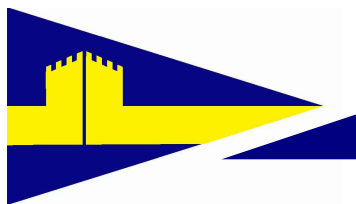
Risk	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action is necessary	Action by who?	Action by when?	Done
Mod	Falls From boats out of the water	Boat or Work Party crew climbing ladders to fix strops Staff could suffer severe or even fatal injuries if they fall	Tread carefully on deck especially if guard wires have been loosened and deck is muddy.	Include instructions to members	JW	01/04/09	
High	Falls From the dolphins	Boat or Work Party crew. Staff could suffer severe or even fatal injuries if they fall	Tread carefully on deck especially if guard wires have been loosened and deck is muddy.	Include instructions to members Consider wearing safety lines Warning notice on Dolphin to maintain 3 points of contact	JW	01/04/09	
High	Falls From the boat whilst fixing/removing strops on trailer	Boat crew slipping on decks or riding on trailer Staff could suffer severe or even fatal injuries if they fall	Tread carefully on deck especially if guard wires have been loosened and deck is muddy. Do not ride on the boat transport.	Include instructions to members Issue instructions to Tractor drivers to ensure that this is complied with	JW MAN COM	01/04/09	
High	Falling objects From items dropped from higher level	Boat or Work Party crew, Pedestrians moving around the yard or slipway being hit by falling object	Do not stand under anything hoisted above you Wear protective headgear in dangerous areas	Include instructions to members to secure all loose items on deck or above head height.	JW	01/04/09	



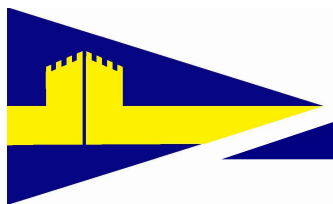
Risk	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action is necessary	Action by who?	Action by when?	Done
Low	Poisons From strops contaminated with poisonous antifouling paint and mud	Boat or Work Party crew handling contaminated strops	Wear gloves Wash hands before eating. Cleaning strops after each lift	Include instructions to members, particularly those cleaning strops	JW	01/04/09	
Mod	Moving Tractor & Trailer	Injuries such as fractures or at worst fatalities can be caused as a result of: Vehicles crashing into other vehicles or objects Crew and visitors being hit by tractor/trailer	All tractor drivers trained in the use of moving heavy loads. Method Statement provided. No movement when crew are working on loading or unloading. Drivers instructed to strictly comply to their method statement. Tractor/trailer fitted with oscillating lights and movement klaxon.	Check Method Statement of Tractor Consortium	JW		
Low	Lighting	Poor lighting is likely to result in higher levels of error and accidents	No craning or movement to take place after dusk. Good quality flood lighting is provided in the yard	No further action required			



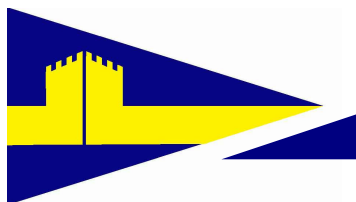
Risk	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action is necessary	Action by who?	Action by when?	Done
High	Fire From boats containing fuel, paint and other flammable liquids.	If trapped inside a boat crew could suffer smoke inhalation or burns which could potentially kill	Exits and fire exits marked and kept clear. Fire extinguishers located around the site Access to all exits and fire extinguisher to be kept clear at all times. All crew advised re secure safe storage of materials. Maintenance contract in place for extinguisher systems. Fire Bell situated near Fishing Hut Site safety monitors trained	Fire drill and training to be held once a year Work party and crew advised re clearance of risk material Consider appointing and training Site safety monitors	MAN COM	01/04/09	
Low	Hazardous Substances Vehicle exhaust fumes	The fumes may cause crew eye irritation and respiratory irritation	Number of vehicles moving is relatively low and exposure very limited – this prevents build up of fumes. Drivers not allowed to leave vehicles with engine running	No further action required			
Low	Hygiene and Comfort	All crew could suffer varied discomfort, eg being too hot /cold	Heated facilities exist within the club to allow staff access to hot and cold beverages. Toilets and showers are on site	No further action required			



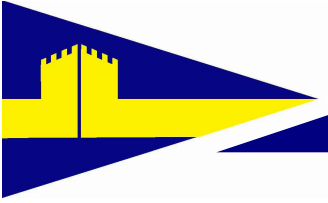
Risk	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action is necessary	Action by who?	Action by when?	Done
Low	Fire Ignition through electrical fault, smoking materials battery recharging etc	If trapped inside, a boat crew could suffer smoke inhalation or burns which could potentially kill.	Exits and fire exits marked and kept clear. Fire extinguishers located around the site Access to all exits and fire extinguisher to be kept clear at all times. All crew advised re secure safe storage of materials. Maintenance contract in place for extinguisher systems Fire Bell situated near Fishing Hut	Briefing to Site Safety Monitors			
Low	Portable Pressure Washer Risk of injury from jet	Crew walking past could be injured from the pressure jet	Operators instructed to keep nozzle pointing downwards. Cleaning of strops confined to slipway. Operate the equipment in accordance with manufacturer's guidelines.	No further action required			
Mod	Sub Lift Test Certificate Out of Date	The Sub Lift needs to be examined and certified as being fit for purpose	Prior to beginning the operation, ask the Sub Lift driver to produce the valid certificate	Take a photocopy of the Certificate on the day			



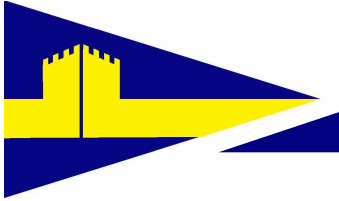
Risk	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action is necessary	Action by who?	Action by when?	Done
Low	<p>Sub Lift Collision The moving Sub Lift has many blind areas</p>	<p>Pedestrians standing in the way</p>	<p>Sub Lift will only move slowly. Sub Lift Operator to constantly change position for observation Assisted by an additional Banksman as eyes and ears</p>				
Low	<p>Boat Weights The approximate weight of the boat to be lifted needs to be communicated to the Sub Lift Driver prior to each lift so that the Sub Lift driver is confident of his ability to make the lift.</p>	<p>If the Sub Lift is in the wrong position or unable to make the load safely an accident could occur</p>	<p>Sub Lift Operators will have a full list of every boat, showing the approximate weight. The Banksmen advise the Sub Lift driver prior to lifting if in doubt</p>				



Risk	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action is necessary	Action by who?	Action by when?	Done
Low	Sub Lift Driver Not competent	If the Sub Lift Driver does not come from a competent company and is not fully trained then accidents may occur.	8 members have now been trained to operate the Sub Lift.	No further action required			
Low	Tractor Driver Not competent	If the Tractor Driver does not come from a competent company and is not fully trained then accidents may occur.	Our club tractor consortium undertake training and familiarisation exercises. Method statement for operation exists	No further action required			
Mod	Signals between Tractor Driver and Safety Monitor Not understood or not clear enough.	If the Site safety Monitor is unable to communicate with the Tractor Driver to warn him about the risk to pedestrians then an accident causing injury could occur.	Issue Site Safety Monitor with a whistle and instructions to blow 3 long blasts to get tractor to stop. Advise Tractor Driver of signal and warn him to be alert to signal.	Need to purchase and issue whistle and instructions			
Low	Banksmen Not being trained and currently certified.	The Banksmen should be fully trained and currently certified. If they are not then there is a risk that they do not understand operating criteria for H & S.	All Banksmen are trained and Certified	Check current certification.			



Risk	What are the hazards?	Who might be harmed and how?	What are you already doing?	What further action is necessary	Action by who?	Action by when?	Done
Low	Strops Not examined and certified as being fit for purpose	If the strops are not fit for purpose then they could break and cause damage or injury.	The two strops supplied by the Sub Lift Company come with current inspection certification. The Strops used by the Club will be examined and certified annually.	Reminder to owners re certification. Check current certification of all strops used			
Mod	Strops Not fitted properly	If strops are not fitted to the Sub Lift hook toggles properly or not placed around the boat securely, then accidents may occur causing damage or injury when the lift begins.	Sub Lift Operator advise boat owner on how to secure Toggles to strops and check position around boat prior to lift commencing	No further action required			
Mod	Trailer Not serviceable or fit for purpose	If the trailer is not maintained and inspected the trailer may fail and cause injury or damage.	Inspect Trailer prior to each operation. Person appointed to maintain the trailer.	Provide written note to tractor consortium confirming inspection has taken place.			



POTENTIAL CONSEQUENCES	PROBABILITY				
	VERY UNLIKELY	UNLIKELY	MAY HAPPEN	LIKELY	CERTAIN OR IMMINENT
	1	2	3	4	5
Delay only	1	2	3	4	5
Minor Injury	2	4	6	8	10
Major Injury	3	6	9	12	15
Single Fatality	4	8	12	16	20
Multiple Fatality	5	10	15	20	25

LOOK UP TABLE	
Low	1 to 6
Moderate	7 to 10
High	11 to 16
Very High	17 to 25

Very Unlikely

1 safety event in 100 years

Unlikely

1 safety event in 10 years

May Happen

1 safety event in 5 years

Likely

1 safety event in 1 year

Certain or Imminent

A safety event will occur ever time the activities is undertaken.