

## 10.2 Burns Point Ferry - Annual Maintenance

Burns Point Ferry - 2020 Slip

### Slip program and scope of works - DRAFT

DAY	TASK	DETAIL
1		Last Ferry run at 12:30am
	Install road closures	
	BSC sign crew	
		Install signs and barricades for "road / ferry closure" traffic management plan
		Remove signs from around Ferry deck except UVI signs
	Prepare Ferry	
	BSC EW crew	
		Remove all items from cabin (cash register, TV, PC, Albert machines, phone, iPad, IT docking stations, chair, mattress, paperwork, items in storage units, bins, fire blankets, fire extinguishers)
		Remove all items from deck (grease gun, wheelie bin, bins, spill kit, fire extinguishers and pump)
		Bag and seal CCTV cameras
		Remove lights and light stands.
		Remove life bouys, life jacket boxes, kick panels, tender, oars and tender bouys
		Remove fire blankets and fire extinguishers from deck
	BSC Crew	
		Prepare Ferry for uncabling
	Remove upstream cable	
	BSC crew	
		Vehicle(s) on South Ballina side to collect staff
		Position Ferry 10m from concrete ramp on Ballina side. Ramps lifted.
		Unbolt upstream cable from Ballina bank
		Undo clamps
		Feed cable back into roller blocks
		Place cable on deck (370m)
		Drive to South Ballina bank and clamp off blocks
		Tie off around pylon
	Remove downstream cable	
	BSC Crew	
		Tug attaches to Ferry on upstream side at Ballina end.
		Tug holds Ferry 10m from concrete ramp on South Ballina side.
		Unbolt downstream cable from South Ballina bank
		Undo clamps
		Feed cable back into roller blocks - take care through engine room area
		Place cable on deck (370m)
		Tie off around pylon
		Ferry moved to South Ballina ramp and all staff off Ferry
		Handover to tug operator
	Tug movement	
	Contractor	
		Tug takes vessel upstream to slipyard - push off on peak high tide
		Tug takes vessel past Swan Bay ramp and hooks back around to ramp
	Swan Bay slipyard	
	Contractors	
		Tug to direct Ferry onto ramp trolleys - ensure trolley not under engine in area for replacement
		Tug operator to handover Ferry to Swan Bay slipyard
		Pull Ferry up onto ramp trolleys
		Winch trolleys up ramp to turn table

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DAY	TASK	DETAIL
2	Swan Bay slipyard	
	Contractors	
		Pull Ferry up onto ramp trolleys
		Winch trolleys up ramp to turn table
	Ramp works - Swan Bay site	
	BSC Crew	
		Take off Ferry ramps
	BSC Construction	
		Number timbers and unbolt all timbers. Keep on site for treatment
	Hull works - Swan Bay site	
	Contractor	
		High pressure clean for barnacles and grease
3	Hull works - Swan Bay site	
	Contractor	
		High pressure clean for barnacles and grease
		Turn Ferry on turn table and winch into shed
	BSC Crew	
		Inspect hull for painting requirements and sandblasting scope
		Cover engine and drive gearbox
		Remove oil from end chambers
		Check hydraulic oil leak in hull
		Remove anchor and chain
		Remove and replace brake pads. Replace/repair bolts in brakes.
		Remove anodes
		Remove cooling pipes
		Remove roller blocks - 3 downstream, 5 upsteam
		Remove lower flight of cabin stairs
		Remove damaged handrail
	BSC Construction	
		Treat ramp timbers; note 4 timbers to be replaced; store from weather
	BSC EW Crew	
		Load roller blocks onto flatbed; take to BSC Depot workshop
		Load cabin stairs onto flatbed; take to BSC Depot workshop
	Ramp works - external site	
	Contractor	
		Transport to McGeary's yard
		Inspect for repairs including bushes and pivot points
		Weld off tips and flaps
		Weld off wear plates
	Depot works	
	Contractor	
		Inspect life bouys, life jacket boxes, life jackets and tender bouys
		Clean life bouys, life jacket boxes, life jackets and tender bouys
		Inspect and clean tender
		Replace mandatory stickers and tickets on safety equipment
	BSC Workshop	
		Clean roller blocks, re-skin and grease
		Clean cabin stairs and replace antislip tape
		Repair handrail
4	Hull works - Swan Bay site	
	BSC Crew	
		Remove anodes
		Remove roller blocks - 3 downstream, 5 upsteam
		Remove and replace walkway feet
	Contractor	
		Sandblast internal hull ( half day)
	Ramp works - external site	
	Contractor	
		Weld off tips and flaps
		Weld off wear plates
		Sandblast ramp frames (full blast in spots)
		Graeme M inspection for scope of works
	Depot works	
	Contractor	
		Clean life bouys, life jacket boxes, life jackets and tender bouys
		Inspect and clean tender
	BSC Workshop	
		Clean roller blocks, re-skin and grease
		Clean cabin stairs and replace antislip tape
		Replace mandatory stickers and tickets on tender safety equipment

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DAY	TASK	DETAIL
5		
	Hull works - Swan Bay site	
	Contractor	
		Sandblast internal hull (full day)
	Ramp works - external site	
	Contractor	
		Strengthen plate repairs on frames
		Repair pivot points and replace bushes
6		
	Hull works - Swan Bay site	
	Contractor	
		BSC water and sewer truck - to be pressure cleaned and dry before attending site
		Clear sandblast material from hull
	Ramp works - external site	
	Contractor	
		Strengthen plate repairs on frames
		Repair pivot points and place bushes

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Slip program and scope of works - DRAFT

DAY	TASK	DETAIL
7	Hull works - Swan Bay site	
	Contractor	
	BSC Crew	Naval Architect and steel thickness testing
		Cut out plate or sections
		Replace walkway legs
		Install repaired handrail
		Install new anchor mounting point (and chain storage)
		Remove 4 lifting beam mounting points
	Contractor	
		Line bore lugs on hull
	Ramp works - external site	
	Contractor	
		Replace tips
		Replace bisalloy wear plates
		Replace bushes
8	Hull works - Swan Bay site	
	BSC Crew	
		Weld temporary lifting points inside hull (top and bottom)
		Sandblast bottomside of flat bars
		Position new plate or sections into place
		Weld plate into place or sections into place
		Install 4 new lifting beam mounting points
		Replace ORTAC on overflow tank and engine block
		New brass fitting on heat exchanger - adaptor
		Check hydraulic leak - oil filter housing (hydraulic tank)
		Reconfigure engine room - remove batteries and install new housing and ventilation
	Contractor	
		Line bore lugs on hull
	Ramp works - external site	
	Contractor	
		Replace tips
		Replace bisalloy wear plates
		Replace bushes
9	Hull works - Swan Bay site	
	BSC Crew	
		Position new plate or sections into place
		Weld plate into place or sections into place
		Clean all steelwork around new plate
		Install wear plates
		Install cooling pipes
		Install combined double pole isolation for batteries and a change over switch
		Check wiring in engine room. To be tagged, sheathed and made safe
		Reconfigure and replace of fuel filters and replacement of fuel lines
	Ramp works - external site	
	Contractor	
		Replace tips
		Replace bisalloy wear plates
		Whip blast for painting

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DAY	TASK	DETAIL
10	Hull works - Swan Bay site	
	Contractor	
		Painting - sequence to be confirmed - 1 day internal hull
	Ramp works - Swan Bay site	
	Contractor	
		Transport to Swan Bay for painting
11	Hull works - Swan Bay site	
	Contractor	
		Painting - sequence to be confirmed - 1 day underside hull
	Ramp works - Swan Bay site	
	Contractor	
		Clean for painting
12	Hull works - Swan Bay site	
	Contractor	
		Painting - sequence to be confirmed - 1 day deck inc hatches and cover plates, lifeboat davit arm, ramp jib/hoist, handrails, wheelhouse (spot repair only)
	Ramp works - Swan Bay site	
	Contractor	
		Painting
13	Hull works - Swan Bay site	
	Contractor	
		Painting - sequence to be confirmed - 1 day starboard side (full installation)
	Ramp works - Swan Bay site	
	Contractor	
		Painting
		NuSpec sign off
14	Hull works - Swan Bay site	
	Contractor	
		Painting - sequence to be confirmed - 1 day port side (full installation)
		NuSpec sign off on hull and ramps

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DAY	TASK	DETAIL
15	Hull works - Swan Bay site	
	BSC Crew	Replace hydraulic hoses as required Change over oils and filters Install rollerblocks Install anodes Install stairs
	Ramp works - Swan Bay site	
	BSC Construction crew	Install timbers on ramp frames in numbered order
	Cabin works - Swan Bay site	
	BSC Electricians	Electrical wiring to be sheathed and tagged
	Contractor	Deep clean cabin
	BSC Sign crew	Install signs around Ferry deck and cabin
16	Hull and ramp works - Swan Bay site	
	Contractor	Winch Ferry out of shed and turn on turn table
	BSC Crew	Install ramps to hull
	Prepare Ferry	
	Contractor	Prepare to lower Ferry down ramp
17	Prepare Ferry	
	Contractor	Lower ferry down ramp on trolleys
	Tug operations	Hand over from Swan Bay slipyard to tug operator Tug to attach to ferry Tug takes vessel downstream to Burns Point
	Install downstream cable	
	BSC WS Crew	Tug holds ferry 10m from concrete ramp on South Ballina side. Ramps lifted. Untie cable from South Ballina pylon Place cable on deck (370m) Feed cable back into roller blocks - take care through engine room area Clamp Bolt downstream cable at South Ballina bank Drive ferry to Ballina bank Staff drive to Ballina bank
	Install upstream cable	
	BSC WS crew	Position ferry 10m from concrete ramp on Ballina side. Ramps lifted. Untie cable from Ballina pylon Place cable on deck (370m) Feed cable back into roller blocks Clamp Bolt upstream cable at Ballina bank Handover from tug operator Tug disengages from ferry
	Refit Ferry	
	BSC Crew and EW Crew	Reinstall all items from cabin (cash register, Albert machines, TV, PC, phone, iPad, IT docking stations, chair, mattress, paperwork, items in storage units, bins, fire blankets, fire extinguishers)  Install all items onto deck (grease gun, wheelie bin, bins, spill kit and pump) Unbag CCTV cameras Reinstall lights and light stands. Reinstall life bouys, life jacket boxes, kick panels, tender, oars and tender bouys Reinstall fire blankets and fire extinguishers on deck Fuel ferry Check batteries and charge if necessary Full check on all facilities for correct operation Full check on fire equipment e.g. hoses operational Check boom gate operation
	Contractor	Install line marking on deck

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DAY	TASK	DETAIL
18	Ferry on run	
	BSC Ferry crew	
		Prepare ferry for normal operations
		Sign off to resume normal operations
	BSC sign Crew	
		Reinstall remaining signs around ferry deck
		Remove road closure traffic management on Ballina and South Ballina approaches

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