

SML

EX - HMAS BENALLA



DISPOSAL/SAFE TO TOW INSPECTION REPORT

JULY 2023

Report No: TS-C R 1549/02
Issue Date: 24th July 2023

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Report Title:	EX-HMAS BENALLA's Disposal/Safe to Tow Inspection Report
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Client Contact:	Mr. Christopher Spiro
Client Reference:	HSPO Purchase Order No: 4501185926

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Approved By: Luke Daley (Technical Services QLD Manager)

REVISIONS				
Revision	Issue Date	Comment	Prepared By	Approved By
0	24/07/2023	Original	A. Klein	L.Daley

DISTRIBUTION			
Revision	Client	Recipient	Comment
Revision 0	HSPO	Christopher Spiro	Electronic Copy
Revision 0	DNE-SSC	DNE - Ships Structure Cell	Electronic Copy


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SECTION 1:

NAVAL HULL INSPECTORS “**SUMMARY REPORT**” AND ATTACHMENTS

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SML EX-HMAS Benalla Disposal Hull Inspection Report No TS-C R 1549/02		Rolling Inspection Period: From: 06-July-2023 To: 20-July-2023
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1.0 INTRODUCTION

- 1.1 The following summary report relates to Survey Motor Launch (SML) EX-HMAS Benalla's Disposal/Safe to Tow Hull Inspection conducted alongside at HMAS Cairns Naval Base.
- 1.2 The inspection was conducted IAW the information provided by HSPO for the EX-HMAS Benalla's Safe for Tow Certification requirements.
- 1.3 The inspections were carried out for HSPO by G.A. Glanville & Co Naval Hull inspector Mr Adam Klein (AJK) & Mr Neil Robinson (NAR).
- 1.4 The standard of inspection, condition rating and reporting is in accordance with ANP4412-4315-4 Naval Hull Inspection Publication. An overview of compartment ratings and cleanliness is shown in Attachment B of this report.

2.0 SCOPE OF WORK

- 2.1 The scope of work was to provide part of the required assurance that ex-HMAS Benalla met the basic requirements for Safe to Tow Certification following the disposal process. Assurance was achieved by conducting inspections throughout the vessel's compartments during the final stages of equipment removal to confirm the vessel's Watertight and Structural integrity. Below is a list of all items checked and witnessed IAW HSPO request.
- NHI to confirm all water and weather tight doors, hatches and scuttles are tight by inspection.
 - All tank manhole covers, and pipe or sensor blanks are in place and secured.
 - All overboard inlet and discharge valves (screw down non-returning type valves) are to be isolated, tagged out and lashed to prevent opening.
 - All tanks and associated valves are to be isolated, and the valves tagged out and lashed to prevent opening.
 - Any cross connected tanks and associated valves are also to be isolated, and the valves tagged out and lashed to prevent opening.
 - Where valves have been harvested, a metal blanking plate is to be installed to prevent opening.
 - The fire main is to be drained, isolated, and tagged out.
 - Propeller shafts are secured from rotation and positively located fore/aft.
 - Confirm that all bollards are sound/intact.

3.0 INSPECTION LIMITATIONS

- 3.1 No Tanks were inspected internally during the course of inspection. Liquid state of tanks was confirmed by CPO Christopher Spiro for DNE purposes.

4.0 OBSERVATIONS

- 4.1 Cleanliness - With the exception of the Engine Room bilges, general cleanliness of remaining bilges following completion of inspection task was rated as "Good" IAW the ANP4412-4315-4. The Fwd section of the Port & Stbd Engine Room C.L bilge was contaminated with minor oily waste "Fair".

5.0 RESULTS OF INSPECTION

- 5.1 WT doors & hatches were chalked tested with the majority of seals confirmed to be achieving 100% contact to knife edges and coamings. See below list for doors and hatches where seals were damaged or not achieving 100% contact:

- *Stbd Bridge WT Door* – Rubber seal not contacting knife edge coaming IWO upper FWD corner.
- *AC Compartment 1CZ4 WT Door* – Rubber seal not contacting knife edge coaming IWO inboard side.
- *Port Engine Room inboard Air intake* – Rubber seal misaligned IWO outboard knife edged sealing surface.
- *Stbd Engine Room exhaust air vent* – Rubber seal not achieving 100% contact IWO upper sealing surface.

Stbd Bridge WT Door



AC Compartment 1CZ4 WT Door



Port Engine Room inboard Air intake



Stbd Engine Room exhaust air vent



5.2 All goose neck vent pipe flaps on Port and Stbd waists and Aft Deck where inspection with the majority confirmed to be in operable condition with the exception to the below listed vents which were seized IWO Hinge/bolting arrangements:

- Goose neck vent pipe Stbd of C.L Fr.35 – Fr.36 adjacent to Bulwark Structure – Hinge/Bolting arrangement seized.
- Goose neck vent pipe Stbd of C.L Fr.31 – Fr.32 adjacent to Bulwark Structure – Hinge/Bolting arrangement seized.
- Goose neck vent pipe Port of C.L Fr.47 – Fr.48 adjacent to Bulwark Structure – Hinge/Bolting arrangement seized.
- Goose neck vent pipe Port of C.L Fr.34 – Fr.35 adjacent to Bulwark Structure – Hinge/Bolting arrangement seized.

Goose neck vent pipe Stbd of C.L Fr.35 – Fr.36



Goose neck vent pipe Stbd of C.L Fr.31 – Fr.32



Goose neck vent pipe Port of C.L Fr.47 – Fr.48



Goose neck vent pipe Port of C.L Fr.34 – Fr.35



5.3 Overboard discharge valves (screw down non-return type) were closed and lashed with heavy duty cable ties and fitted with isolation tags with the exception of the below listed valves:

- *TDFLS Vent line overboard valve* – Not lashed and fitted with isolation tag.
- *Omnipure discharge overboard valve* – Valve unable to be physically isolated/lashed due do valve being of swing check valve type.
- *Sea chest Vent isolation valves* – Valve not lashed and fitted with isolation tag in both Port and Stbd Engine Rooms.
- *Grey Water OB discharge Valve Stbd of C.L located in Sick Bay (2CZ1)* - Valve unable to be physically isolated/lashed due do valve being of swing check valve type.
- *Grey Water OB discharge Valve Stbd of C.L in (2CA1)* - Valve unable to be physically isolated/lashed due do valve being of swing check valve type.

TDFLS Vent Line Valve



Omnipure OB Swing Check Valve



Sea Chest Vent Line



Grey Water OB discharge Valve Stbd of C.L (2CZ1)



Grey Water OB Discharge Valve Stbd of C.L (2CA1)



Sonar Cable Conduits Blanked & Sealed Stbd of C.L Fr.32 – Fr.33



- 5.4 Tank lids were checked and confirmed that all fastenings were fitted. See below indicative photos of tank lids. See indicative photos below.



- 5.6 Firemain were opened, drained, and isolated following inspection. Isolation of firemain system was conducted at the main sea inlet intakes.

- 5.7 Propeller shafts brakes in Port and Stbd engine Rooms were confirmed to be in the locked position preventing rotation and Fwd and Aft movement. See indicative photographs below:

Port Side Shown



Stbd Side Shown



- 5.8 All bollards on the Forecastle, waists and Aft main deck were visually checked and intact. See indicative photographs below:



- 5.9 Rudder securings were inspected as part of Benalla's Safe to Tow checklist *section 3.g* and were witnessed to be secured by ships original mechanical configuration. See indicative photograph below.



6.0 GENERAL COMMENTS

- 6.1 Attachment A (1, 2 & 3) are provided for completeness, based on the operational requirements for a commissioned RAN vessel. They are included within this report for disclosure of the known hull material state at the time of decommissioning.
- 6.2 For the status of compartments at completion of the preparation period refer to Attachment A (1, 2 & 3) & the Hull Maintenance Summary at Attachment B.
- 6.3 The list of known hull defects at the time of decommissioning is contained in Attachment C, noting the context in paragraph 6.1. The Indicative Code & Instructional Priority determined IAW the requirements of Attachment A-1 are not applicable in the context of a disposal activity; they serve as a record of the relative severity of known defects only.

HULL INSPECTION DEFECT REPORT EXPLANATORY NOTES

(Extracts from ANP4412-4315-4 Ch5)

Individual Defect Categorisation

All hull examination/inspection defects are categorised by combining both the Indicative Code and Instructional Priority. The Instructional Priority identifies the relative severity of the defect, based on its mode of failure e.g. fracture, deformation, corrosion, and coating failure.

Indicative Code/Instructional priority forms the basis of managing all defects arising from hull examination/inspection. The determination of the Indicative Code and Instructional Priority for each defect is the judgement recorded by the NHI as follows:

Indicative Code classifies each defect according to the structural function:

DPs	Defect Primary Structure
DSs	Defect Secondary Structure
DMs	Defect Minor Structure
Sys	Defect in ship system or fitting
WHS	Defects with Work Health and Safety Ramifications

Instructional Priority provides a measure of relative severity of the individual defect as follows:

IP1	Defect presents a 'Very High' level of risk. Immediate and urgent action required almost always involving URDEF procedure. Defect in primary structure that severely compromises the vessels capability and seaworthiness.
IP2	Defect presents a 'High' level of risk. Defect in primary or secondary structure which must be actioned at the next maintenance availability. Defect must be regularly monitored pending permanent repair.
IP3	Defect presents a 'Medium' level of risk; defects must be regularly monitored pending permanent repair.
IP4	Defect presents a 'Low' level of risk and within the capability of ship's staff to action.
IP5	Defect with WHS consequences; ship's staff to undertake a safety hazard risk assessment (HRA) to determine level of risk.
IP6	Defect presents a 'Very Low' level of risk; no remedial action required, recorded for historical reference only.

ATTACHMENT A-2

HULL MAINTENANCE SUMMARY EXPLANATORY NOTES

(Extracts from ANP4412-4315-4 Ch5)

Aggregated Defects Categorisation

When there are a number of structure defects identified within the same compartment, or watertight subdivision, an assessment of the aggregated impact to capability or seaworthiness needs to be undertaken. The NHI will provide a HIDRR for defects identified within a compartment. At the end of the inspection period the NHI will provide a compartment summary to the SPO and ship, listing all known defects and the aggregated assessment of these defects against the capability/seaworthiness of the compartment.

SPO and ship are to utilize the compartment aggregate assessment summary, to guide the action and prioritisation (URDEF/TM200) of defects. The DNE-SSC will take the compartment aggregate assessment summary into consideration when reviewing the vessel's TH118 certification.

To ensure a consistent approach to the compartment aggregated assessment summary, the table below provides guidance as to the hull and structure impact on both capability or seaworthiness.

Rating		Defect Status
Poor		<ol style="list-style-type: none">1. Defects in these compartments which have caused a breach of watertight integrity and/or loss of structural strength.2. A number of serious defects that are close to breaching watertight integrity and have suffered a loss of strength.3. Compartment where unauthorized configuration changes have been detected and that these changes have adversely affected structural integrity and/or loss of structural strength.
Fair		<ol style="list-style-type: none">1. Defects in primary or secondary structure (IP2) in compartment or adjacent compartment.2. Impacted by multiple defects (IP3) in compartment.3. Other observed defects in minor structure or ship systems (e.g., pipe work) that may adversely impact on Capability and/or Seaworthiness.
Good		<ol style="list-style-type: none">1. No defects found.2. Defects that exist do not represent a major threat to the structural strength or watertight integrity.

ATTACHMENT A-3

CLEANLINESS OF MACHINERY SPACES AND BILGES EXPLANATORY NOTES

(Extracts from ANP4412-4315-4 Ch5)

The cleanliness of compartments must be confirmed by the NHI in accordance with Table below and reported against the relevant compartment in the Compartment Assessment.

Accumulation of debris, sediment, salts, or other foreign material will detract from overall quality of the vessel inspection as well as having the following negative impacts:

- Assessment of the true condition of the structure may be impaired with a higher likelihood of unidentified defects.
- An increased likelihood of coating breakdown and onset of corrosion.
- De watering of the space will become more difficult.
- Increased likelihood for fouling of the bilge suctions, particularly when needed in an emergency; and
- Foreign objects such as nuts and bolts are likely to cause a dissimilar metal reaction.

Cleanliness Rating and Rating Consequence

Cleanliness Rating for a Compartment	Rating	Consequence
Inspection achievable noting: <ul style="list-style-type: none"> Fitted pipework & machinery may impact accessibility for close up visual inspection. 	Good	Inspection complete with compartment & bilges dry with no sediment or trade waste.
Inspection limited by the following: <ul style="list-style-type: none"> Local presence of liquids/debris/oil coatings/trade waste, Small quantities of clean water, Build-up of sediment covering less than 20% of the plate area. 	Fair	Inspection incomplete Ship's staff implement cleaning regime to allow inspection, or inspection periodicity shortened as directed by DNE-SSC until inspection rating 'Good' is achieved.
Unable to inspect bilge due to any of the following: <ul style="list-style-type: none"> Global presence of liquids/debris/heavy oil coatings/trade waste, Brackish water of any depth lying in the bilge, Build-up of sediment covering more than 20% of the plate area. 	Poor	Inspection cannot be commenced. Bilges to be cleaned to allow conduct of inspection within current availability. External support & assistance may be required to implement cleaning regime to allow inspection.

Before an inspection is conducted a minimum cleanliness rating of 'Fair' must be achieved. The bilges should always be maintained at a cleanliness rating of 'Good'.

Attachment B

Attachment B														
HMAS BENALLA Hull Maintenance Summary - 10-July-2023														
Compartment Inspection Summary						Defect Summary Against Compartment								
Name	No	Inspection Date	Next Inspection	Status	Notes	Date	Defect ID	Rev	Compt No	Code	Pty	Short Description	URDEF No	TM200 No
Paint-Below Waterline-External	3-PaintBWL	14-Jun-21	14-Dec-23	Good	EMP 18/02 - Full refurbishment of anti-foul preservation coating completed during EMP. EMP 21/02 - Global antifoul preservation coating applied during EMP.									
Fore Peak Stbd	3A1	18-Jan-22	18-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL.	11-Mar-20	BENA-200001-ABL	0	3A1	DPs	6	Deformation - Fr 56 Web Plate & Long'l Flat Bar Stiffener	6006/20	H204D6042
Fore Peak Port	3A2	01-Jun-21	01-Jun-23	Good	EMP 21/02 - Compartment inspected by ABL.	01-Jun-21	BENA-210025-ABL	0	3A2	DPs	4	Preservation Blisters & Corrosion - Side & Deckhead Structure Bhd 49-Bow		H214D6035
F/O Tank (Port)	3B2	15-Sep-22	15-Sep-24	Good	EMP 22/02 - Tank inspected by ABL, cleanliness rating good.									
F/O Tank (Stbd)	3BA1	15-Sep-22	15-Sep-24	Good	EMP 22/02 - Tank inspected by ABL, cleanliness rating good.									
Sonar Trunk	3B2-00	14-Jun-21	14-Jun-23	Good	EMP 18/02 - Sonar removed/reinstated by GAG manufacturing for periodic maintenance. EMP 21/02 - Sonar tube sealed & filled with water for duration of slipping IAW TH107.									
Coffer Dam	3BZ1	02-Jun-21	02-Jun-23	Good	EMP 21/02 - Compartment inspected by ABL.									
Sonar Compartment	3CA1	18-Jan-22	18-Jan-24	Good	EMP 21/02 - Sonar upgrade conducted during EMP. EMP 22/01 - Compartment inspected by ABL.									
Void	3CA2	19-Jan-22	19-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL.									
Void	3CB1	19-Jan-22	19-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL.									
Fresh Water Tank	3CB2	20-Jan-22	20-Jan-24	Good	EMP 18/02 - Full refurbishment of F/W tank during EMP. EMP 22/01 - Compartment inspected by ABL. Cleanliness rating good.									
Fresh Water Tank	3CC1	20-Jan-22	20-Jan-24	Good	EMP 18/02 - Full refurbishment of F/W tank during EMP. EMP 22/01 - Compartment inspected by ABL. Cleanliness rating good.									
Void	3CY1	18-Jan-22	18-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL.	13-Jun-00	BENA-000028-WRM	34	3CY1	DPs	6	STBD VOID FR 16 - 27 - DEFORMED FRAME 19		
Void	3CY2	19-Jan-22	19-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL.									
Port Skeg	3-Skeg (P)	14-Jun-21	14-Dec-23	Good	EMP 20/01 - New stern tube fitted with mechanical seals. Internals of skeg inspected during replacement. EMP 21/02 - Inspected IAW TH107 Report.									
Starboard Skeg	3-Skeg (S)	14-Jun-21	14-Dec-23	Good	EMP 20/01 - New stern tube fitted with mechanical seals. Internals of skeg inspected during replacement. EMP 21/02 - Inspected IAW TH107 Report.									

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Oily Water Tank	3CZ1	18-Jan-22	18-Jan-23	Good	EMP 22/01 - Compartment inspected by ABL. Cleanliness rating good.								
Oily Water Tank	3CZ2	16-Sep-22	16-Sep-23	Good	EMP 20/01 - Global preservation repair of tank during EMP. EMP 22/02 - Tank inspected by ABL, cleanliness rating good.								
Port Engine Room	3D (P)	13-Sep-22	13-Sep-23	Good	EMA12/03 - Machinery removed and bottom structure grit blasted and paint refurbished. Substantial Plate renewal carried out. EMP 20/01 - Global preservation repair of bottom shell plate. EMP 22/02 - Compartment & lube oil tank inspected by ABL. Bilge cleanliness rating poor.	13-Sep-22	BENA-220032-ABL	0	3D (P)	DPs	4	Preservation Breakdown & Corrosion - General Structure Fr 7-15	BEA-0000023
Stbd Engine Room	3D (S)	13-Sep-22	13-Sep-23	Good	EMA12/03 - Machinery removed and bottom structure grit blasted and paint refurbished. Substantial Plate renewal carried out. EMP 20/01 - Global preservation repair of bottom shell plate. EMP 22/02 - Compartment & lube oil tank inspected by ABL. Bilge cleanliness rating poor.								
Port Rudder	3-Rudder (P)	14-Jun-21	14-Dec-23	Good	EMP 21/02 - Rudder inspected IAW TH107 report of docking/slipping.								
Starboard Rudder	3-Rudder (S)	14-Jun-21	14-Dec-23	Good	EMP 21/02 - Rudder inspected IAW TH107 report of docking/slipping.								
Port Naval Stores	2B (P)	05-Sep-22	05-Sep-23	Good	EMP 22/02 - Compartment fully stowed for inspection - ABL.								
Stbd Naval Stores	2B (S)	05-Sep-22	05-Sep-23	Good	EMP 22/02 - Compartment fully stowed for inspection - ABL.	19-Jun-19	BENA-190021-ABL	0	2B (S)	DPs	6	Deformation - Fr 45, Stbd	
Sonar Compartment	2B-00	24-Jan-22	24-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL.								
Paint Store	2BA1	05-Sep-22	05-Sep-24	Good	EMP 22/02 - Compartment inspected by ABL.								
Sewage Plant	2BZ2	05-Sep-22	05-Sep-23	Good	EMP 22/02 - Compartment inspected by ABL.								
Stair Fwd Stbd	1/2C 1FWD	19-May-20	19-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.								
Stair Fwd Port	1/2C 2FWD	19-May-20	19-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.								
Sonar Access	2CA1	19-Jan-22	19-Jan-25	Good	EMP 22/01 - Compartment inspected by ABL.								
Locker	2CA2	05-Nov-19	05-Nov-22	Good	Inspected during EMP 19/03 IAW job ticket M0235728.								
Passage Port	2C-Passage	19-May-20	19-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.								
Passage Stbd	2C-Passage	08-Jun-21	08-Jun-24	Good	EMP 21/02 - Partial crop & re-new of tank top plate between Fr 28-30 & Fr 32-33.								
Tunnel Aft Port	2C-TunnelAft	28-Jan-22	28-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL. EMP 22/02 - PMS 6012 inspection only - ABL.								
Tunnel Aft Stbd	2C-TunnelAft	19-Jan-22	19-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL. EMP 22/02 - PMS 6012 inspection only - ABL.								

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Sailor's Cabin (3)	2CB1	18-May-20	18-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.														
Sailor's Cabin (3)	2CB2	18-May-20	18-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.														
Sailor's Cabin (4)	2CY1	18-May-20	18-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.														
Senior Sailor's Cabin (2)	2CY2	05-Jul-21	05-Jul-24	Good	Black water sewage vent pipe spigot was recommended for crop & renew, only pad welded & renewed remaining vent pipe. Recommend monitor at 12M intervals. EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.														
Storage Locker	2C-Locker (S)	18-May-20	18-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.														
Storage Locker	2C-Locker (F)	18-May-20	18-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.														
Stair Aft Stbd	1/2C 1AFT	17-Jan-22	17-Jan-24	Good	EMP 22/01 - Inspected by ABL.														
Stair Aft Port	1/2C 2AFT	19-May-20	19-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.														
Senior Sailor's Cabin (1)	2CC2	18-May-20	18-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.														
Beer Store	2C-BeerStore	18-May-20	18-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.														
Sick Bay	2CZ1	05-Nov-19	05-Nov-22	Good	Inspected during EMP 19/03 IAW job ticket M0235728.														
Cool/Cold Store	2CZ2	06-Jul-21	06-Jul-24	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.														
Fuel Tank	3D-00	28-Jan-22	28-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL.														
Aft Peak	2E	03-Feb-21	03-Feb-23	Good	EMP 21/01 - Compartment inspected by ABL, bilge cleanliness rating good. EMP 22/02 - PMS 6012 inspection only - ABL.														
Chain Locker Stbd	2A1	01-Jun-21	01-Jun-23	Good	EMP 18/02 - Full refurbishment of compartment during EMP. EMP 21/02 - Compartment inspected by ABL.														
Chain Locker Port	2A2	01-Jun-21	01-Jun-23	Good	EMP 18/02 - Full refurbishment of compartment during EMP. EMP 21/02 - Compartment inspected by ABL.														
Paint-Weather Deck-Waterline-External	1-PaintAWL	03-Feb-22	03-Feb-24	Good	EMP 20/01 - Global preservation coating to hull top sides. EMP 22/01 - Inspected from workboat by ABL.														

Rope Locker (P)	2B-RopeLkr	27-May-20	27-May-23	Good	EMP 18/02 - Full refurbishment of deck plate & global preservation of remaining areas conducted during EMP. EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
Rope Locker (S)	2B-RopeLkr	27-May-20	27-May-23	Good	EMP 18/02 - Full refurbishment of deck plate & global preservation of remaining areas conducted during EMP. EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
Officer's Cabin	1CA1	19-May-20	19-May-23	Good	EMP 21/02 - Main cabin refurbished.												
Officer Bathroom	1CA1-00	07-Sep-22	07-Sep-24	Good	EMP 18/02 - Shower cubicle fully removed & deck below refurbished including new shower cubicle fibreglass bases installed. EMP 22/02 - Inspected by ABL.												
Captain's Cabin	1CA2	19-May-20	19-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
Captain's Bathroom	1CA2-00	07-Sep-22	07-Sep-24	Good	EMP 17/03 - Shower cubicle fully removed & deck below refurbished including new deck drain & new shower cubicle fibreglass bases installed. EMP 22/02 - Inspected by ABL.												
Space / Oilskins	1C-Store	19-May-20	19-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
Port Waist	1C-Waist (P)	06-Sep-22	06-Sep-24	Good	EMP 22/02 - Inspected by ABL.	06-Sep-22	BENA-220024-ABL	0	1C-Waist (P)	DSs	4	Preservation Breakdown & Corrosion - General Structure Fr 19-47, Port Side				BEA-0000023	
Stbd Waist	1C-Waist (S)	07-Sep-22	07-Sep-24	Good	EMP 22/02 - Inspected by ABL.	07-Sep-22	BENA-220025-ABL	0	1C-Waist (S)	DSs	4	Joint Failure - Stbd Bulwark Bi-Metallic Deck Joint Fr 40				BEA-0000023	
Main Passage	1C	17-Jan-22	17-Jan-25	Good	EMP 22/01 - Inspected by ABL.												
Canteen	1CB2	19-May-20	19-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
Technical Library	1CB4	19-May-20	19-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
Wardroom	1CB1	19-May-20	19-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
Stairs Fwd Port	01/1C	20-May-20	20-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
Senior Sailors Mess	1CC2	20-May-20	20-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
Galley	1CX1	02-Jun-21	02-Jun-23	Good	EMP 18/02 - Internal sliding door track full refurbished. EMP 21/02 - Compartment inspected by ABL.												
Senior Sailors Bathroom	1CX2	05-Sep-22	05-Sep-24	Good	EMP 18/02 - Shower cubicle fully removed, deck below refurbished including new shower cubicle fibreglass bases installed. EMP 22/02 - Inspected by ABL.												

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Junior Sailors Bathroom	1CY2	05-Sep-22	05-Sep-24	Good	EMP 17/03 - Shower cubicles fully removed & deck below refurbished including new deck drains & copper tubes for shower heads with new shower cubicle fibreglass bases installed. EMP 22/02 - Inspected by ABL.												
Junior Sailors Mess	1CY1	20-May-20	20-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
A/C Room	1CZ4	12-Sep-22	12-Sep-23	Good	EMP 21/02 - Crop & renew of entire deck plate and bi-metallic deck joint, global preservation on completion. EMP 22/02 - Inspected by ABL.												
Instrument Workshop	1CZ1	21-May-20	21-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
Laundry	1CZ2	17-Jan-22	17-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL.												
Battery Room	1CZ3	12-Sep-22	12-Sep-24	Good	EMP 22/02 - Inspected by ABL.												
Quarter Deck	1D-QuarterD	24-Jan-22	24-Jan-24	Good	EMP 22/01 - Inspected by ABL.	04-Feb-21	BENA-210018-ABL	1	1D-QuarterD	DPs	4	Preservation Breakdown & Corrosion - Port & Stbd Softpatches & Structure				H214D6013	
						13-Sep-22	BENA-220031-ABL	0	1D-QuarterD	DSs	3	Corrosion Wastage - Stbd Engine Room W.T. Hatch Coaming.				BEA-0000023	
Intake & Deck Store	1CZ5	17-Jan-22	17-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL. EMP 22/02 - PMS 6012 inspection only - ABL.												
Intake & Dive Store	1CZ6	17-Jan-22	17-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL. EMP 22/02 - PMS 6012 inspection only - ABL.	04-Oct-22	BENA-220035-ABL	0	1CZ6	DSs	4	Preservation Breakdown & Corrosion - W.T Door Coaming				BEA-0000024	
Funnel Port	1D-Funnel (P)	28-Jan-22	28-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL.												
Funnel Stbd	1D-Funnel (S)	28-Jan-22	28-Jan-24	Good	EMP 22/01 - Compartment inspected by ABL.												
Forecastle Deck	01A-FcslDk	04-Oct-22	04-Oct-24	Good	EMP 22/02 - Inspected by ABL.	04-Oct-22	BENA-220034-ABL	0	01A-FcslDk	DSs	4	Preservation Breakdown/Detachment & Corrosion - Deck & Attachments.				BEA-0000024	
Bridge Deck Port	01C-BridgeD	03-Jun-21	03-Jun-23	Good	EMP 21/02 - Inspected by ABL.												
Bridge Deck Stbd	01C-BridgeD	02-Jun-21	02-Jun-23	Good	EMP 21/02 - Inspected by ABL.												
Bridge	01C	20-May-20	20-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
Radio Room	01CZ2	20-May-20	20-May-23	Good	EMP 20/01 - Compartment inspected during EMP IAW amps job ticket M0235729.												
Boat Deck	01C-BridgeD	20-Jan-22	20-Jan-25	Good	EMP 22/01 - Inspected by ABL.												
Flybridge	02C-Flybridg	20-Jan-22	20-Jan-24	Good	EMP 22/01 - Inspected by ABL.												
Mast & Mast Deck	02C-Mast	23-Jun-21	23-Jun-23	Good	EMP 21/02 - Inspected by ABL.	23-Jun-21	BENA-210031-ABL	0	02C-Mast	DSs	4	Preservation Breakdown & Corrosion - Mast & Attachments				H214D6039	

Attachment C

HMAS Benalla - All Outstanding Hull Inspection Defects										
Date	Defect ID	Rev	Comp No	Ind Code	Ins Pty	Short Description	URDEF No	TM200 No	Comment	Compl Yes/No
13-Jun-00	BENA-000028-WRM	34	3CY1	DPs	6	STBD VOID FR 16 - 27 - DEFORMED FRAME 19			Monitor	
19-Jun-19	BENA-190021-ABL	0	2B (S)	DPs	6	Deformation - Fr 45, Stbd			Monitor	
11-Mar-20	BENA-200001-ABL	0	3A1	DPs	6	Deformation - Fr 56 Web Plate & Long'l Flat Bar Stiffener	6006/20	H204D6042	Monitor	
4-Feb-21	BENA-210018-ABL	1	1D-QuarterDk	DPs	4	Preservation Breakdown & Corrosion - Port & Stbd Softpatches & Structure		H214D6013 EMP 21/02	EMP 23/01	
1-Jun-21	BENA-210025-ABL	0	3A2	DPs	4	Preservation Blisters & Corrosion - Side & Deckhead Structure Bhd 49-Bow		H214D6035 EMP 22/01	EMP 23/01	
23-Jun-21	BENA-210031-ABL	0	02C-Mast	DSs	4	Preservation Breakdown & Corrosion - Mast & Attachments		H214D6039 EMP 22/01	EMP 23/01	
6-Sep-22	BENA-220024-ABL	0	1C-Waist (P)	DSs	4	Preservation Breakdown & Corrosion - General Structure Fr 19-47, Port Side		BEA-00000234-22	EMP 23/01	
7-Sep-22	BENA-220025-ABL	0	1C-Waist (S)	DSs	4	Joint Failure - Stbd Bulwark Bi-Metallic Deck Joint Fr 40		BEA-00000236-22	EMP 23/01	
13-Sep-22	BENA-220031-ABL	0	1D-QuarterDk	DSs	3	Corrosion Wastage - Stbd Engine Room W.T. Hatch Coaming.		BEA-00000238-22	EMP 23/01	
13-Sep-22	BENA-220032-ABL	0	3D (P)	DPs	4	Preservation Breakdown & Corrosion - General Structure Fr 7-15		BEA-00000239-22	EMP 23/01	
4-Oct-22	BENA-220034-ABL	0	01A-FcsleDk	DSs	4	Preservation Breakdown/Detachment & Corrosion - Deck & Attachments.		BEA-00000240-22	EMP 23/01	
4-Oct-22	BENA-220035-ABL	0	1CZ6	DSs	4	Preservation Breakdown & Corrosion - W.T Door Coaming		BEA-00000241-22	EMP 23/01	