BRIDGE INSPECTION REPORT

Status: Released | Printed On: 7/14/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

Inspector's Signature ABK Cert # G1220 Cert Exp Date 1/12/2022 Co-Inspector's Signature LAW

Inspections Performed

Report Type	Inspection Type	Date	Freq	Hours	Inspector	Cert No	Co-Insp.
Underwater		4/27/2021	48	3.0	RMP	G1215	JRWH
Condition		4/27/2021	24	1.5	ABK	G1220	LAW

		Alignment	(1661)	17		Operating Tons	(1552)		Bridge Rails (1684)
7		Deck Overall	(1663)			Op RF	(1553)		Transition (1685)
7		Superstructure	(1671)	10		Inventory Tons	(1555)		Guardrails (1686)
4		Substructure	(1676)			Inv RF	(1556)		Terminals (1687)
		Culvert	(1678)			Operating Level	(1660)		Bridge Rail Ht (2612)
8		Chan/Protection	(1677)			Open/Closed	(1293)		Design Curb Ht (2611)
		Pier/Abut/Prot	(1679)			Structural Eval	(1657)		
		Waterway	(1662)	9		Deck Geometry	(1658)		
T		Scour	(1680)	9		Underclearance	(1659)		

		No Utilities	(2675)
		Asphalt Depth	(2610)
1998		Year Built	(1332)
0		Year Rebuilt	(1336)

NBIS Risk Category
Routine: No Risk Category
Underwater: No Risk Category

Inspection Flags

Soundings (2693)	Measure Clearance (2694)	Revise Rating (2688)	Photos (2691)	QA Flag (2695)

BMS Elements

Element	Element Description	Total	Units	CS 1	CS 2	CS 3	CS 4
8112	Timber Sawn Girder	750	LF	736	10	4	0
8361	Scour	2	EA	2	0	0	0
8390	Fixed Bearing	2	EA	2	0	0	0
8391	Moveable Bearing (roller, sliding, etc.)	2	EA	2	0	0	0
8408	Steel Sliding Plate Joint	8	LF	8	0	0	0
8640	Moveable Pedestrian Gangplank	50	LF	50	0	0	0
8701	Ferry Concrete Floating Pontoon	42	CELL	34	7	1	0
8703	Spud Piling & Wells	37	EA	16	0	10	11
8818	Other Pedestrian Railing	630	LF	510	0	0	120
8902	Protective Coating - Piling	7400	SF	6525	200	675	0
8910	Safety Access Ladders	2	EA	2	0	0	0

Notes

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Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

Notes (Continued)

0 ORIENTATION:
The McNeil Island Still Harbor Dock includes the concrete floats, gangplank, and the steel spud piles.
For location reference: Offshore is north, shore is south, left side is west, and right side is east. Defects on piles are called out in clock direction where 6:00 is facing onshore and 12:00 is offshore.
See the attached Layout drawing for reference and Pile Inspection Data spreadsheet for additional findings.

9 The WSDOT Bridge Preservation Dive Team performed an underwater inspection of the subject facility on April 27, 2021. A total of 37 steel pipe piles were inspected by diving. The concrete pontoon exteriors were given a cursory swim-by inspection.

In general, the steel pipe piles that position the floating docks (spud piles) are in poor condition. The zinc paint coating on the piles is failing in large areas from the splash zone down to mudline. Missing areas of coating have exposed the steel substrate which now has large areas of surface corrosion and section loss. The overall pitting of the metal made it difficult to obtain accurate thickness readings with the ultrasonic thickness meter. Some pits are to full thickness and plans indicate a 0.5" nominal wall thickness. Twenty-one of the thirty-seven steel spud piles (56%) have holes in them. Thirteen of those piles' holes were caused by constant mechanical abrasion of several UHMW "log" booms tethered to the piles. Eleven of those piles may have enough damage to threaten performance during extreme events. These holes have increased in size and number since the previous underwater inspection. The concrete floating pontoons had thick marine growth covering nearly 100% of the surface area. Spot cleaning revealed no defects.

Repair or replace steel spud/guide piles that are rated as Condition State 4 with multiple and large holes. REPAIR #10003.

Recommend retaining the 48-month frequency for underwater inspections.

1676 SUBSTRUCTURE:
Substructure coded to '4' due to holes in more than half of the steel piling.

1677 CHANNEL:
This structure abuts another structure and does not connect to the shoreline directly. No bank issues noted. No restrictions to water flow past the structure.

1680 SCOUR:
Structure is in tidal waters with weak and variable tidal currents. Scour code set to "T - tidal" and is considered a low risk for scour. See Note 8361.

8112 TIMBER SAWN GIRDER:
The floating dock concrete segments are held together with timber walers side mounted and through bolted. These provide a fairly rigid connection between the docks and provide a rub face for docked vessels. Winter storms have caused breakage of the timber walers.
Joint between panels E & F to be uneven up to 1" (photo #28).
Joint connecting Pontoons F and G has been built up with a horizontal stiffening plate and steel channels in addition to replacing the timber walers (photo #26) (CS 2).
The last four feet of timber waler near Spud Pile A is broken (photo #34).
Many of the timber waler through bolts have been replaced. There are still some missing near Piles U and V (photo #33).
Eyelets securing log fenders are distressed and bent (photo #35). REPAIR #10004.
See the attached layout and photos for more details.

8361 SCOUR (Field):
There are two lines of spud/guide piles, 1 - 12 and A - Y. Assume each line is a bent or pier.

Underwater Inspection Findings:
Water flow in the vicinity is tidal. No scour patterns or scour countermeasures were observed.

See attached Layout drawing for details.

8390 FIXED BEARING:
Fixed bearings located at top gangplank connection to the concrete pier (photo #10).

8391 MOVEABLE BEARING:
Slider bearings located at the gangplank landing (photo #11).

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Notes (Continued)

8408 STEEL SLIDING PLATE JOINT:
Steel sliding joint at the top of the gangplank (element 8390, photo #10) Steel plate at the Pontoon T has been removed and no longer coded (photo #36).

8701 CONCRETE FLOATING PONTOON:
A repair to the pontoon timber walers tying the adjoining floats together was done in 2016 - 2017. Prior to the repair, the listing of the pontoon segments indicates the pontoon polystyrene has degraded and taken on water through the waler bolt holes. There is a serviceability issue which may reappear after a significant storm from the north.
Dock lists downward 4" from Panel C to the end of Panel A (Photo #29).
At the M-N joint shore side, the boat tie off cleat is bolted only to the timber walers (Photo #30).
The U-V joint has a 2.5' x 9" x 1" deep spall (Photo #32) (CS 3).
Seven of the dock segments have been repaired since the 2013 inspection (CS 2).

Underwater Inspection Findings:
The submerged surfaces of the pontoons are covered in heavy marine growth, making a detailed inspection very difficult. Spot cleaning revealed no defects (Photo #UW-1).

See attached Layout drawing for locations and details.

8703 SPUD PILING & WELLS:
There are thirty-seven spud piles; Piles 1 through 12 on the longitudinal (onshore to offshore) bent and Piles A through Y on the transverse (left to right) bent. Spud pile rollers are all intact, some are bent from storm events (Photo #27).

Underwater Inspection Findings:
The spud piles, also referred to as "guide piles", position the floats and are in generally poor condition underwater. The coating has generally failed from the intertidal zone (ITZ) down to mudline, exposing the steel underneath (Photo #UW-2). These exposed areas have surface corrosion with pitting and section losses of up to full thickness (holes) in localized areas (plans indicate 0.5" nominal wall thickness). Moderate marine growth is present but attempts to clean for inspection also removed any coating left as well. Twenty-one of the spud piling (56%) have holed through in the lower ITZ due to either mechanical abrasion damage from the UHMW plastic "log" booms that contact the piles (Photos #UW-3 thru #UW-7 and #UW-10 thru #UW-24) or from pitting that has rusted through. The 2017 underwater inspection counted only 12 spud piles with holes (32%). These holes have grown significantly larger in size since the previous underwater inspection and new holes were observed where only flat spots were seen before.

Eleven spud piles (Piles A, D, E, F, J, L, O, P, V, W, and Y) have section loss that threatens performance during an extreme event such as high winds and heavy wave action.
(Photos #UW-10 through #UW-24)(CS4). REPAIR #10003.

Ten spud piles (Piles 5, 9, 10, B, C, G, H, K, M, and S) have section loss, but do not currently threaten the performance of the pontoon positioning system (Photo #UW-2).

See attached Layout drawing and Pile Data spreadsheet for detailed defect descriptions and locations.

8818 OTHER PEDESTRIAN RAILING:
The steel post stanchions and rope rail have been removed from floats T thru Y prior to the 2017 inspection (photo #25).

8902 INORGANIC ZINC VINYL PAINT:
Many of the spud piles have rust blisters and seam rust (photo #37).

Underwater Inspection Findings:
Much of the spud pile coating has failed underwater. Pile metal substrate is exposed between 10% and 50% of the pile surface area underwater, see Element 8703 Photos #UW-2 and #UW-8 for typical underwater coating condition.

8910 SAFETY ACCCESS LADDERS:
There is a ladder attached to each end of the t-dock (Photo UW-25).

See attached Layout drawing for locations of ladders.

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Repairs

Repair No	Pr	R	Repair Descriptions	BMS	Noted	Maint	Verified
10003	1	B	Repair or replace steel spud/guide Piles A, D, E, F, J, L, O, P, V, W, and Y. These piles have multiple and/or larger holes that may be detrimental to performance during an extreme weather event.	8703	4/27/2021		
10004	1	B	Replace eyebolts holding log fender before they fail.	8112	4/27/2021		

Inspections Performed and Resources Required

Report Type	Date	Freq	Hrs	Insp	CertNo	Coinsp	Note
Underwater	4/27/2021	48	3.0	RMP	G1215	JRWH	Underwater inspection by WSDOT Dive Team. Frequency set at 48 months to correspond with every-other routine inspection. (Set values for codes 1232, 1533, 1538 & 1541 in an effort to populate blank fields in the UW Report – NAF)

Resources	Hours	Min	Pref	Max	Freq Date	Need Date	Override	Notes
Boat		M	M	M				Used 26' Munson boat for access during 2021 inspections. Launched from Zittel's Marina. POV parking was $10 each. Truck and boat trailer $20. 15 minute boat ride on glass.
Third Party Notification								Schedule inspection with Greg Buikema, Marine Operations Supervisor of McNeil Island, at Office: (253)588-5281 (ext. 0016) and/or Cell: (253)328-3229 and/or Email: gabuikema@doc1.wa.gov

Report Type	Date	Freq	Hrs	Insp	CertNo	Coinsp	Note
Condition	4/27/2021	24	1.5	ABK	G1220	LAW	Report type changed in 2021 from "Primary Safety" to "Condition".

Resources	Hours	Min	Pref	Max	Freq Date	Need Date	Override	Notes
Boat	1.00	K	M					
Third Party Notification								Schedule inspection with Greg Buikema (DOC) 253-328-3229 or 253-588-5281 (cell). A security clearance must be done for all inspectors prior to landing on the island. This can be done via Greg.

Washington State Department of Transportation

McNeil Island Still Harbor Dock
DOC-6 SID #00200441
Pile Inspection Data

Underwater	4/27/2021	Lead: RMP		Co: JRWH	
Routine	4/27/2021	Lead: ABK		Co: LAW	

Pile Location		Condition/Damage				Inspection Type	
Bent	Pile	Condition State (CS)	MDL Elev. (MLLW)	Defect Location	Details/Remarks	Routine/UW	Date
PILE INSPECTION DATA - Steel Dock Spud Piles are 14" Diam. and 3/8" Thick							
Pile Defect Locations are called out in Clock Direction with Offshore face at 12:00 and Onshore face at 06:00.							
*All areas of surface rust or coating failure (cf) have localized pitting up to 1/4" deep.							
Longitudinal Onshore to Offshore	1	1		MDL - ITZ MDL	*50% area surface rust / 50% area marine growth Thickness 0.395" (2013)	UW	4/27/2021
	2	1		MDL - ITZ	*25% area surface rust / 75% area marine growth coverage	UW	4/27/2021
	3	1	-7.0	MDL - ITZ MDL	*25% area surface rust / 75% area marine growth coverage Thickness 0.370" (2013)	UW	4/27/2021
	4	1	-7.0	MDL - ITZ MDL	*25% area surface corrosion with pitting up to 0.25" deep Thickness 0.375" (2021)	UW	4/27/2021
	5	3	-8.0	MDL - ITZ MDL+5 @5:30 MDL	*25% area surface rust / 75% area marine growth 1-1/2" diam. hole	UW	4/27/2021
	6	1	-8.0	MDL - ITZ MDL	*25% area surface rust / 75% area marine growth	UW	4/27/2021
	7	1	-8.5	MDL - ITZ MDL	*25% area surface rust / 75% area marine growth	UW	4/27/2021
	8	1	-9.5	MDL - ITZ MDL	*25% area surface rust / 75% area marine growth Thickness 0.375" (2013)	UW	4/27/2021
	9	3	-9.5	MDL - ITZ MDL+7 @6:00 MDL	*25% area surface rust / 75% area marine growth 1-1/2" diam. hole	UW	4/27/2021
	10	3	-9.5	MDL - ITZ MDL+5 to +7 @6:00 MDL	*25% area surface rust / 75% area marine growth 6"(W) very thin area (not holed thru) with heavy pitting	UW	4/27/2021
	11	1	-10.0	MDL - ITZ MDL	*25% area surface rust / 75% area marine growth	UW	4/27/2021
	12	1	-11.0	MDL - ITZ MDL	*25% area surface rust / 75% area marine growth Thickness 0.270" in localized deep pit (2013)	UW	4/27/2021
Transverse (Lt to Rt)	A	4	-13.0	MDL+9 to +12 @6:00 MDL - ITZ MDL	3"(W) x 36"(H) hole from mechanical abrasion of log boom (2017 Photo #UW-3, 2021 Photo #UW-10) *25% area surface rust / 75% area marine growth	UW	4/27/2021

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Pile Inspection Data

Underwater	4/27/2021	Lead: RMP		Co: JRWH	
Routine	4/27/2021	Lead: ABK		Co: LAW	

Pile Location		Condition/Damage				Inspection Type	
Bent	Pile	Condition State (CS)	MDL Elev. (MLLW)	Defect Location	Details/Remarks	Routine/UW	Date
	B	3		MDL - ITZ	*50% area surface rust / 50% area marine growth	UW	4/27/2021
			-13.0	MDL+5 @4:30	1" diam. hole		
				MDL+3 @5:00	2"(W) x 2"(H) hole		
				MDL			
	C	3		MDL - ITZ	*50% area surface rust / 50% area marine growth	UW	4/27/2021
				MDL+10 to +12	4" wide flat spot from mechanical abrasion of log boom		
				MDL +11 @6:00	1-1/2" diam. star pattern hole in the 4" wide flat spot		
				MDL +5	1-1/2" diam. hole		
			-13.0	MDL			
	D	4		MDL+9 to +12 @6:00	4"(W) x 36"(H) hole from mechanical abrasion of log boom (Photo #UW-11)	UW	4/27/2021
				MDL+9	3"(W) x 12"(H) hole from mechanical abrasion of log boom		
				MDL+8.5 @6:00	1-1/2" diam. hole		
				MDL+8	1" dia. hole from mechanical abrasion of log boom		
				MDL - ITZ	*50% area surface rust / 50% area marine growth		
				MDL+2 @2:00	2"(W) x 1"(H) hole		
				MDL+1.5 @12:00	5"(W) x 2"(H) hole (Photo #UW-12)		
			-13.5	MDL			
	E	4		MDL+10.5 to +12 @6:00	2"(W) x 18"(H) hole from mechanical abrasion of log boom (Photos #UW-13 and #UW-14)	UW	4/27/2021
				MDL+9	1/2" diam. hole from mechanical abrasion of log boom		
				MDL+8 to +12	4" wide flat spot from mechanical abrasion of log boom		
				MDL - ITZ	*25% area surface rust / 75% area marine growth		
				MDL+2 @12:00-3:00	4-1/2"(W) x 1-1/2"(H) and 3-1/2"(W) x 3/4"(H) (Photo #UW-15)		
				MDL+1.5 @3:00	2" diam. hole		
			-14.0	MDL			
	F	4		MDL+10to+8.5@6:00	3-1/2"(W) x 18"(H) hole from mechanical abrasion of log boom (Photos #UW-16 and #UW-17)	UW	4/27/2021
				MDL+9@6:00	2"(W) x 2-1/2"(H) hole from mechanical abrasion of log boom		
				MDL+8.5@6:00	1-1/2"(W) x 3"(H) hole from mechanical abrasion of log boom		
				MDL - ITZ	*25% area surface rust / 75% area marine growth		
			-13.5	MDL			

Washington State Department of Transportation

McNeil Island Still Harbor Dock
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Pile Inspection Data

Underwater	4/27/2021	Lead: RMP		Co: JRWH	
Routine	4/27/2021	Lead: ABK		Co: LAW	

Pile Location		Condition/Damage				Inspection Type	
Bent	Pile	Condition State (CS)	MDL Elev. (MLLW)	Defect Location	Details/Remarks	Routine/UW	Date
	G	3		MDL+9.5to+11.5	3"(W) x 2'(H) flat area from mechanical abrasion of log boom, no holes	UW	4/27/2021
				MDL+6@6:00	1/2" diam. hole in pit		
				MDL+1.5@12:00	1/4" diam. hole in pit		
				MDL - ITZ	*25% area surface rust / 75% area marine growth		
			-14.0	MDL			
	H	3		MDL+4@12:00	1" diam. hole	UW	4/27/2021
				MDL+3.5@11:00	3" diam. hole		
				MDL+2@12:00	3"(W) x 2"(H) hole		
				MDL+6" @11:00	2" diam. hole		
				MDL - ITZ	*25% area surface rust / 75% area marine growth		
			-14.0	MDL			
	I	1		MDL - ITZ	*25% area surface rust / 75% area marine growth	UW	4/27/2021
			-13.5	MDL			
	J	4		MDL+11	12"(H) x 2.5"(W) hole from mechanical abrasion of log boom [Photos #UW-4 (2013) and #UW-5 (2017)]	UW	4/27/2021
				MDL+7 to +8.5@6:00	3"(W) x 18"(H) hole from mechanical abrasion of log boom (Photo #UW-18)		
					4" wide flat spot from mechanical abrasion of log boom		
				MDL+7 to +11	1-1/2" diam. hole		
				MDL+4@11:00	1-1/2"(W) x 2"(H) hole		
				MDL+3.5@12:00	3-1/2"(W) x 1"(H) hole		
				MDL+2@12:00	*25% area surface rust / 75% area marine growth		
				MDL - ITZ			
				MDL			
	K	3		MDL+7to+10 @6:00	4" wide flat spot from mechanical abrasion of log boom, thin no holes	UW	4/27/2021
				MDL - ITZ	*25% area surface rust / 75% area marine growth		
			-12.0	MDL			
	L	4		MDL+9 @6:00	3"(W) x 24"(H) hole from mech abrasion of log boom (Photo #UW-19)	UW	4/27/2021
				MDL+8 @6:00	1" diam. hole		
				MDL+6 - ITZ	5" wide flat spot from mech abrasion of log boom		
				MDL+4 @12:00	3"(W) x 2"(H) hole		
				MDL - ITZ	*25% area surface rust / 75% area marine growth		
			-12.5	MDL			

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Routine	4/27/2021	Lead: ABK		Co: LAW		
Pile Location			Condition/Damage		Inspection Type	
Bent	Pile	Condition State (CS)	MDL Elev. (MLLW)	Defect Location	Details/Remarks	Routine/UW	Date
	M	3		MDL+9 @6:00	2"(W) x 3"(H) hole from mechanical abrasion of log boom	UW	4/27/2021
				MDL+8 @6:00	2-1/2"(W) x 7"(H) hole from mechanical abrasion of log boom		
				MDL+8-ITZ	3" - 4" wide flat spot from mechanical damage of log boom		
				MDL-ITZ	*25% area surface rust / 75% area marine growth		
			-11.5	MDL			
	N	1		MDL - ITZ	*10% area surface rust / 90% area marine growth (typical).	UW	4/27/2021
			-12.0	MDL			
	O	4		MDL+6to+8 @6:00	4"(W) x 24"a9)H hole from mechanical abrasion of log boom (Photos #UW-6 (2017) and Photo #UW-20)	UW	4/27/2021
				MDL+5 to +9	4" wide flat spot from mechanical damage of log boom		
				MDL+5 @3:00	1" diam. hole		
				MDL+4 @4:00	1/4" diam. hole in pit		
				MDL +8" @3:00	1/2" diam. hole		
				MDL+3" @2:00	1-1/2"(W) x 1/4"(H) hole		
				MDL - ITZ	*10% area surface rust / 90% area marine growth		
			-11.0	MDL			
	P	4		MDL+4to+8.5 @6:00	5"(W) x 54"(H) large hole from mechanical abrasion of log boom (Photo #UW-7 and #UW-21)	UW	4/27/2021
				MDL+3.5 @6:00	2" diam. hole		
				MDL - ITZ	*25% area surface rust / 75% area marine growth		
			-10.5	MDL			
	Q	1		MDL - ITZ	*25% area surface rust / 75% area marine growth	UW	4/27/2021
			-11.0	MDL			
	R	1		MDL - ITZ	*25% area surface rust / 75% area marine growth	UW	4/27/2021
			-11.0	MDL			
	S	3		MDL+5 @1:00	2"(W) x 1"(H) and 1" diam. Hole	UW	4/27/2021
				MDL+3 @12:30	2"(W) x 3"(H) hole		
				MDL+1 @12:30	2-1/2"(W) x 6"(H) hole		
				MDL - ITZ	*25% area surface rust / 75% area marine growth, Photo #UW-2 shows typical pile condition underwater		
			-10.5	MDL			
	T	1		MDL - ITZ	*25% area surface rust / 75% area marine growth	UW	4/27/2021
			-10.5	MDL			

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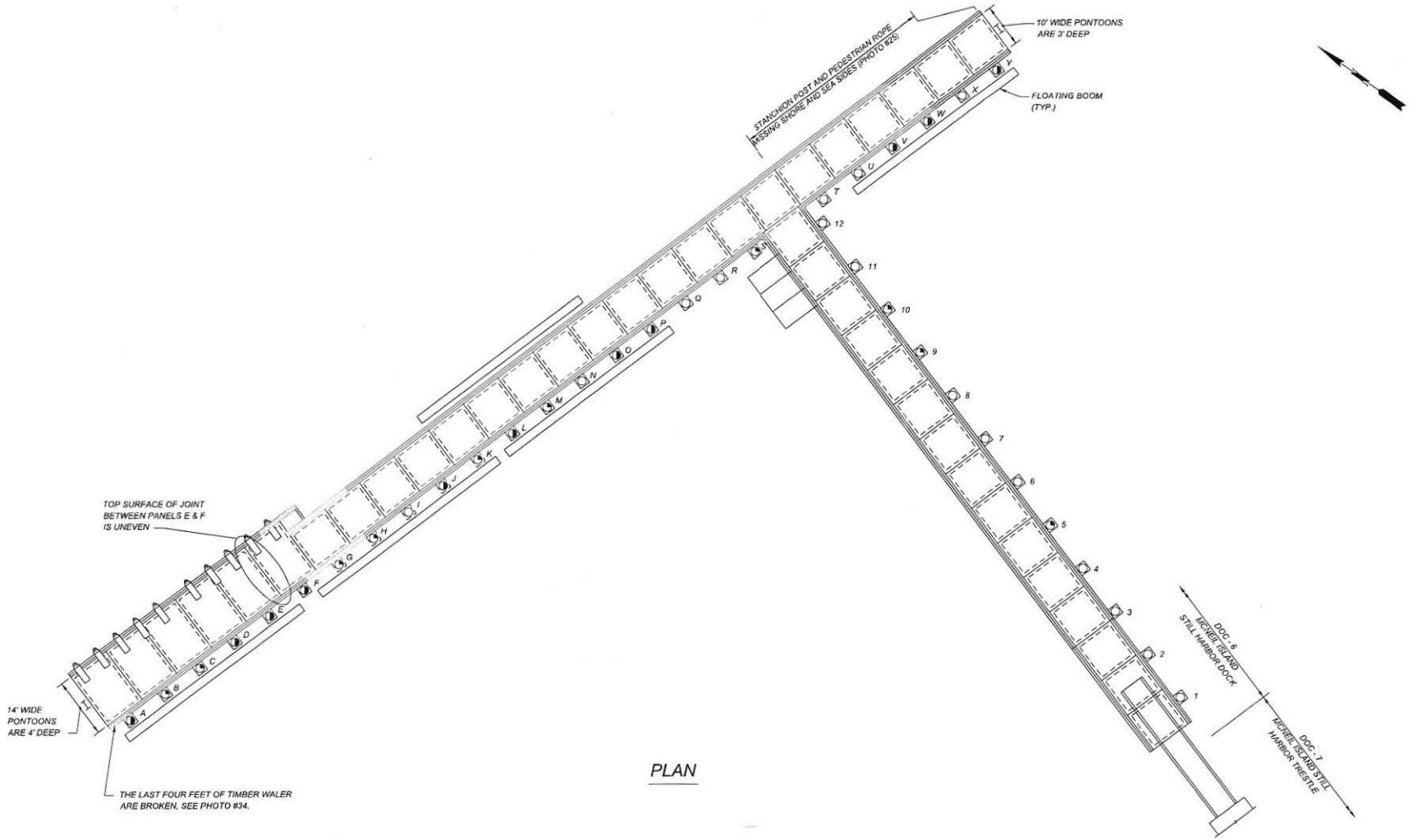
Routine	4/27/2021	Lead: ABK		Co: LAW	

Pile Location		Condition/Damage				Inspection Type	
Bent	Pile	Condition State (CS)	MDL Elev. (MLLW)	Defect Location	Details/Remarks	Routine/UW	Date
	U	1		MDL+6 to +10 @6:00	3"(W) flat area with heavy corrosion & pitting	UW	4/27/2021
				MDL - ITZ	*25% area surface rust / 75% area marine growth		
			-10.5	MDL			
	V	4		MDL+6.5(bot.) @6:00	4" (W) x 24"(H) hole from mechanical abrasion of log boom	UW	4/27/2021
				MDL+4.5(bot.) @6:00	3"(W) x 14"(H) hole from mechanical abrasion of log boom		
					(Photo #UW-22)		
				MDL - ITZ	*25% area surface rust / 75% area marine growth		
			-10.5	MDL			
	W	4		MDL+5(bot.) @6:00	4-1/2"(W) x 18"(H) hole from mechanical abrasion of log boom	UW	4/27/2021
				MDL+4(bot.) @6:00	2-1/2"(W) x 7"(H) hole from mechanical abrasion of log boom		
				MDL+3(bot) @6:00	3"(W) x 8"(H) hole from mechanical abrasion of log boom		
					(Photo #UW-23)		
				MDL - ITZ	*25% area surface rust / 75% area marine growth		
			-9.5	MDL			
	X	1		MDL - ITZ	*25% area surface rust / 75% area marine growth	UW	4/27/2021
			-10.0	MDL			
	Y	4		MDL+5.5(bot.) @6:00	3"(W) x 18"(H) hole from mechanical abrasion of log boom	UW	4/27/2021
				MDL+4.5(bot.) @6:00	3"(W) x 6"(H) hole from mechanical abrasion of log boom		
					(Photo #UW-24)		
				MDL - ITZ	*25% area surface rust / 75% area marine growth		
			-10.0	MDL			

37	Total Steel Piles
11	CS4
10	CS3
0	CS2
16	CS1



PLAN

LEGEND:

- VERTICAL ROUND STEEL PILE
- LADDER
- STEEL PILE w/ MODERATE HOLED THROUGH SECTION LOSS (CS3)
- STEEL PILE w/ EXCESSIVE HOLED THROUGH SECTION LOSS (CS4)
- STEEL CHANNEL WALER REPAIR

ROUTINE INSPECTION		UNDERWATER INSPECTION	
Date:	4/27/2021	Date:	4/27/2021
Scale:	1"=25'	Scale:	1"=25'
Inspected by:	ABK/LAW	Inspected by:	RMP/JRWH

WSDOT BRIDGE PRESERVATION OFFICE

Washington State Department of Transportation
Bridge and Structures Office

DOC - 6
MCNEIL ISLAND STILL HARBOR DOCK
SID#00200441

LAYOUT

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

SI-31

0 Orientation

Photo Type: G - General

Orientation: Shore

Date: 4/8/2019

Repairs:

Gangplank to floating pontoons.

SI-2

0 Orientation

Photo Type: E - Elevation

Orientation: Sea

Date: 5/23/2013

Repairs:

Still Harbor Elevation from Shore.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

UW-9

0 Orientation

Photo Type: W - UW Cover

Orientation: Left

Date: 4/27/2021

Repairs:

McNeil Island Still Harbor Dock looking inshore left.

UW-0

9 Underwater Report Executive Summary

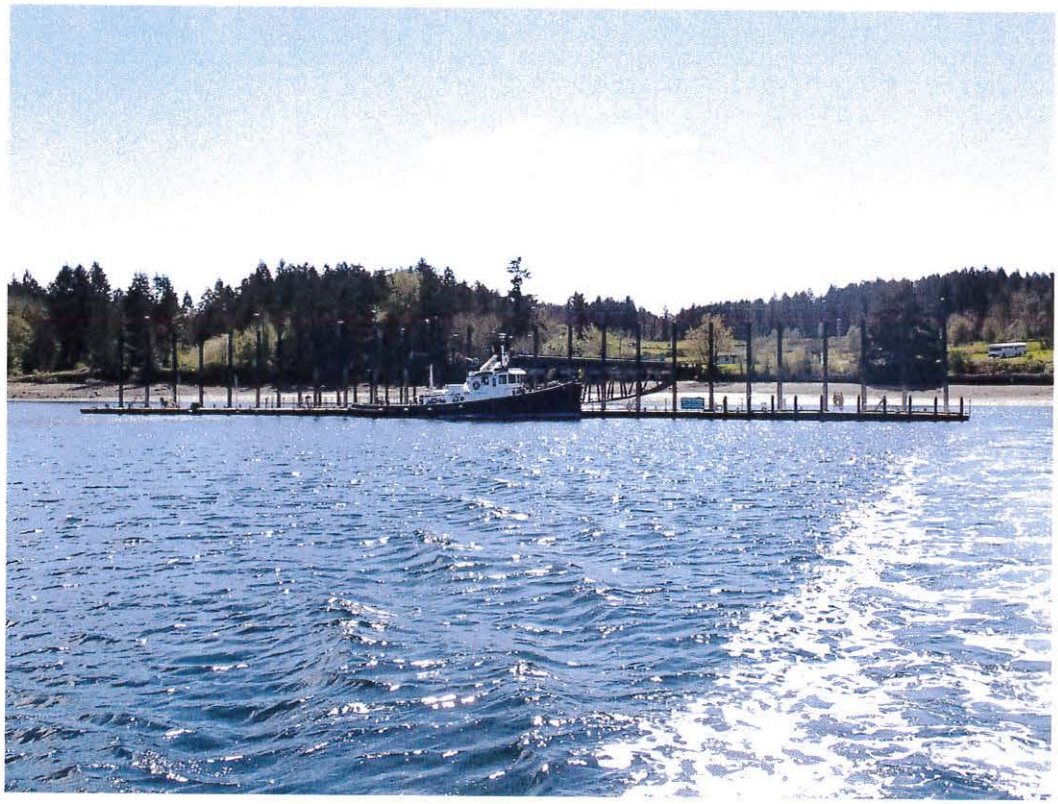
Photo Type: W - UW Cover

Orientation: Shore

Date: 4/27/2017

Repairs:

Elevation for UW cover.



Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

SI-28

8112 Timber Sawn Girder

Photo Type: G - General

Orientation: Right

Date: 4/8/2019

Repairs:

Top surface of joint between panels E & F is uneven up to 1".

SI-26

8112 Timber Sawn Girder

Photo Type: G - General

Orientation: Left

Date: 4/26/2017

Repairs:

Joint connecting Pontoons F and G has been built up with stiffening plate and steel channels have been added in addition to replacing the timber walers.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

SI-34

8112 Timber Sawn Girder

Photo Type: G - General

Orientation: Sea

Date: 4/27/2021

Repairs:

Near Spud Pile A, the last four feet of the timber waler are broken.

SI-33

8112 Timber Sawn Girder

Photo Type: G - General

Orientation: Sea

Date: 4/27/2021

Repairs:

Many of the through bolts holding the timber walers have been replaced. Some are still missing in several pontoon segments.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

SI-35

8112 Timber Sawn Girder

Photo Type: R - Repair

Orientation: Shore

Date: 4/27/2021

Repairs: 10004

Eyebolts securing log fenders are distressed and bent.

SI-10

8390 Fixed Bearing

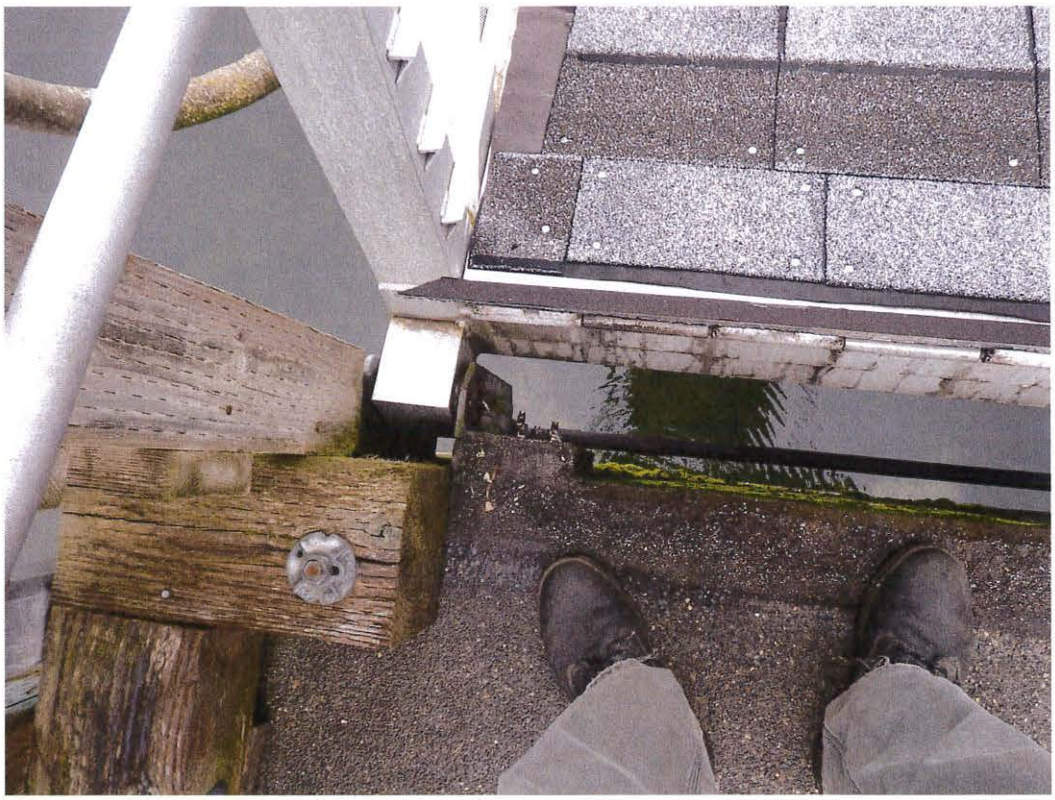
Photo Type: G - General

Orientation: Sea

Date: 5/23/2013

Repairs:

Fixed bearings located at top of gangplank connection to the concrete pier.



Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

SI-11

8391 Moveable Bearing (roller, sliding, etc.)

Photo Type: G - General

Orientation: Sea

Date: 5/23/2013

Repairs:

Slider bearings located at the gangplank landing.

SI-36

8408 Steel Sliding Plate Joint

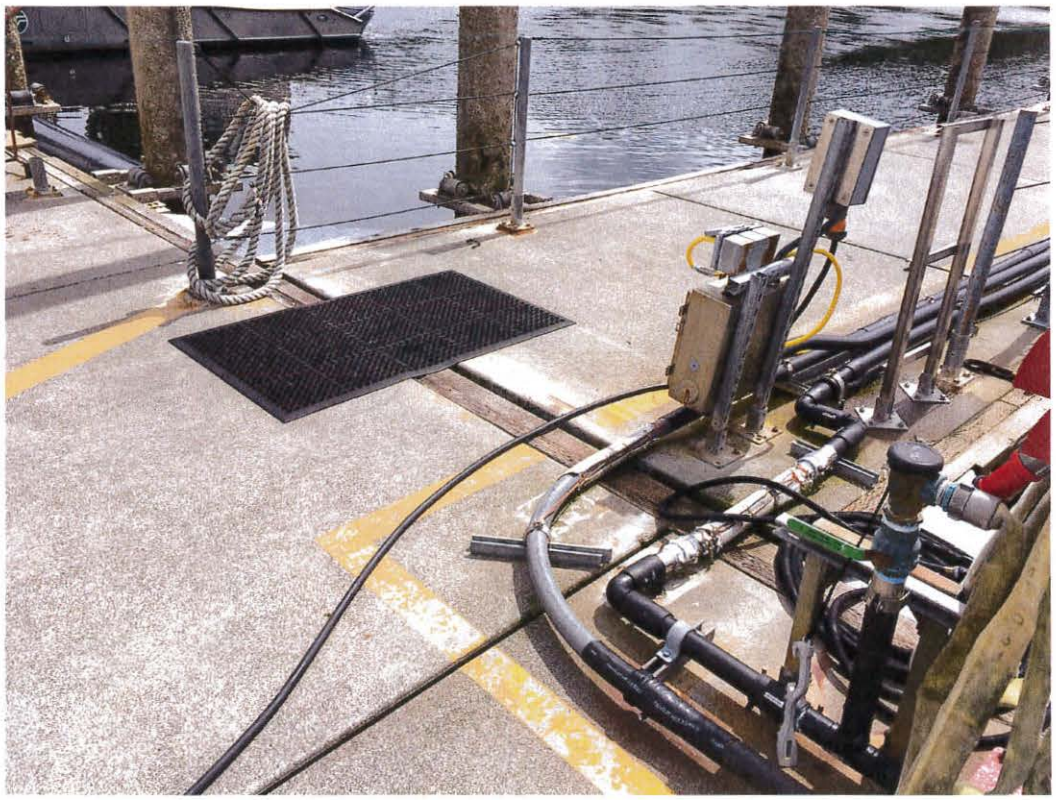
Photo Type: G - General

Orientation: Right

Date: 4/27/2021

Repairs:

Steel plate joint has been replaced with rubber mat.



Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

SI-29

8701 Ferry Concrete Floating Pontoon

Photo Type: G - General

Orientation: Sea

Date: 4/8/2019

Repairs:

Dock lists 4" down from Panel C to the end of Panel A.

SI-30

8701 Ferry Concrete Floating Pontoon

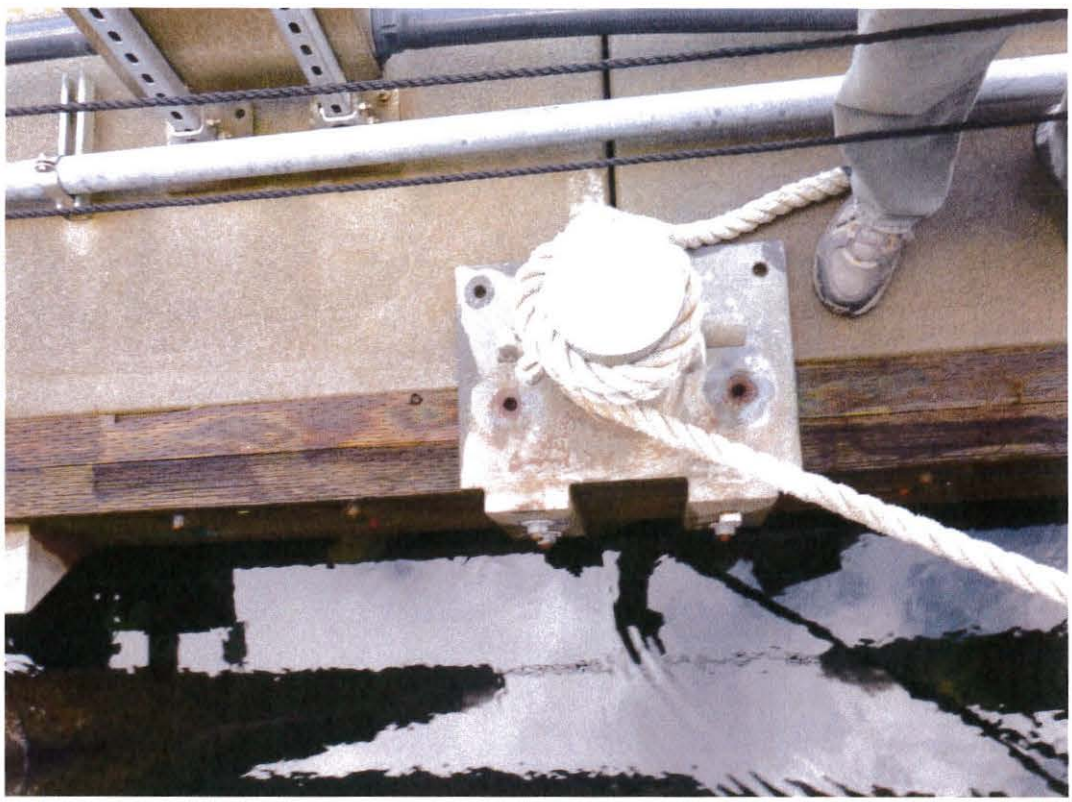
Photo Type: G - General

Orientation: DN

Date: 4/8/2019

Repairs:

At the M-N joint shore side, the boat tie off cleat is bolted only to the timber walers.



Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

SI-32

8701 Ferry Concrete Floating Pontoon

Photo Type: G - General

Orientation: Left

Date: 4/27/2021

Repairs:

The U-V joint has a 2.5" x 9" x 1" deep spall.

UW-1

8701 Ferry Concrete Floating Pontoon

Photo Type: G - General

Orientation:

Date: 5/23/2013

Repairs:

Typical heavy marine growth on floating dock sections.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

SI-27

8703 Spud Piling & Wells

Photo Type: G - General

Orientation:

Date: 4/26/2017

Repairs:

Spud pile rollers are all intact, some are bent from storm events.

UW-2

8703 Spud Piling & Wells

Photo Type: M - Monitor

Orientation:

Date: 5/23/2013

Repairs:

T-dock Pile S; general coating failure and rusting with section loss. Typical of T-dock piles.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

UW-3

8703 Spud Piling & Wells

Photo Type: I - In Depth

Orientation:

Date: 4/27/2017

Repairs:

T-dock, Pile A: 18" H x 4" W hole from mechanical damage.

UW-4

8703 Spud Piling & Wells

Photo Type: I - In Depth

Orientation:

Date: 5/23/2013

Repairs:

T-dock Pile J; 4" wide mechanical damage (flat spot). 2013 photo; compare to UW-5 for 2017 photo and UW-18 for 2021 photo to see progression.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

UW-5

8703 Spud Piling & Wells

Photo Type: I - In Depth

Orientation:

Date: 4/27/2017

Repairs:

T-dock Pile J: 12" H x 2.5" W hole (was just a flat spot in 2013, see UW-4).

UW-6

8703 Spud Piling & Wells

Photo Type: I - In Depth

Orientation:

Date: 4/27/2017

Repairs:

T-dock Pile O: 18" H x 4" W (up to) hole from mechanical damage.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

UW-7

8703 Spud Piling & Wells

Photo Type: I - In Depth

Orientation:

Date: 4/27/2017

Repairs:

T-dock Pile P: Large 3-ft. vertical hole from mechanical damage.

UW-10

8703 Spud Piling & Wells

Photo Type: R - Repair

Orientation: Sea

Date: 4/27/2021

Repairs: 10003

Pile A has a 3"(W) x 36"'(H) hole from mechanical abrasion of UHMW log boom.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

UW-11

8703 Spud Piling & Wells

Photo Type: R - Repair

Orientation: Sea

Date: 4/27/2021

Repairs: 10003

Pile D has a 4"(W) x 36"(H) hole from mechanical abrasion of UHMW log boom.

UW-12

8703 Spud Piling & Wells

Photo Type: R - Repair

Orientation: Shore

Date: 4/27/2021

Repairs: 10003

Pile D has a 5"(W) x 2"(H) hole.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

UW-13

8703 Spud Piling & Wells

Photo Type: R - Repair

Orientation: DN

Date: 4/27/2021

Repairs: 10003

Pile E has a 2"(W) x 18"(H) hole from mechanical abrasion of log boom. Looking offshore during low tide.

UW-14

8703 Spud Piling & Wells

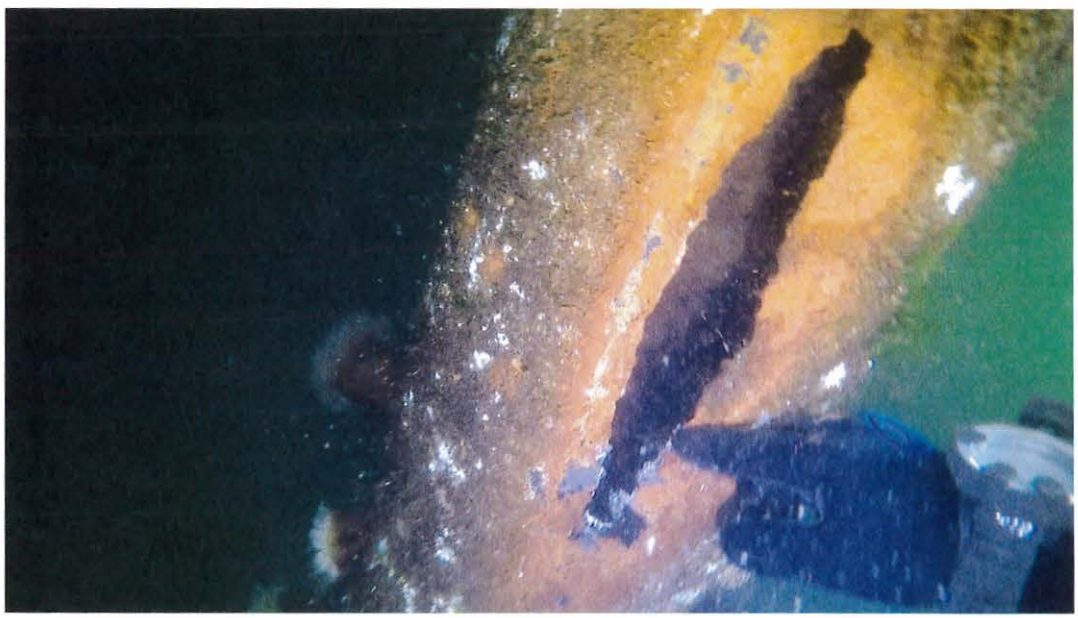
Photo Type: R - Repair

Orientation: Sea

Date: 4/27/2021

Repairs: 10003

Pile E has a 2"(W) x 18"(H) hole from mechanical abrasion of log boom looking offshore.



Status: Released

Printed On: 8/5/2021

Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861

Release Date: 7/14/2021

Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying

Route On **Mile Post**

Intersecting STILL HARBOR (P. SOUND)

Route Under **Mile Post**

UW-15

8703 Spud Piling & Wells

Photo Type: R - Repair

Orientation: Shore

Date: 4/27/2021

Repairs: 10003

Pile E has 4-1/2"(W) x 1-1/2"(H) and 3-1/2"(W) x 3/4"(H) side-by-side holes looking inshore left.

UW-16

8703 Spud Piling & Wells

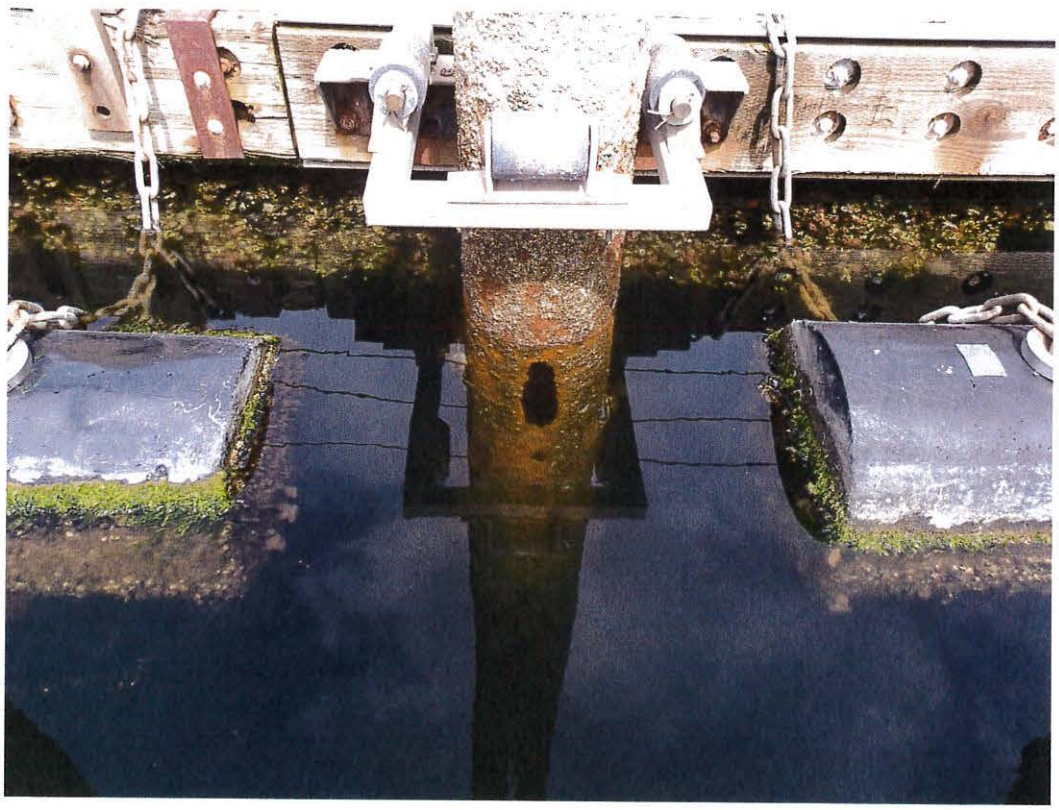
Photo Type: R - Repair

Orientation: Sea

Date: 4/27/2021

Repairs: 10003

Pile F has 3-1/2"(W) x 18"(H), 2"(W) x 2-1/2"(H), and 1-1/2"(W) x 3"(H) holes from mechanical abrasion of log boom at low tide.



Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

UW-17

8703 Spud Piling & Wells

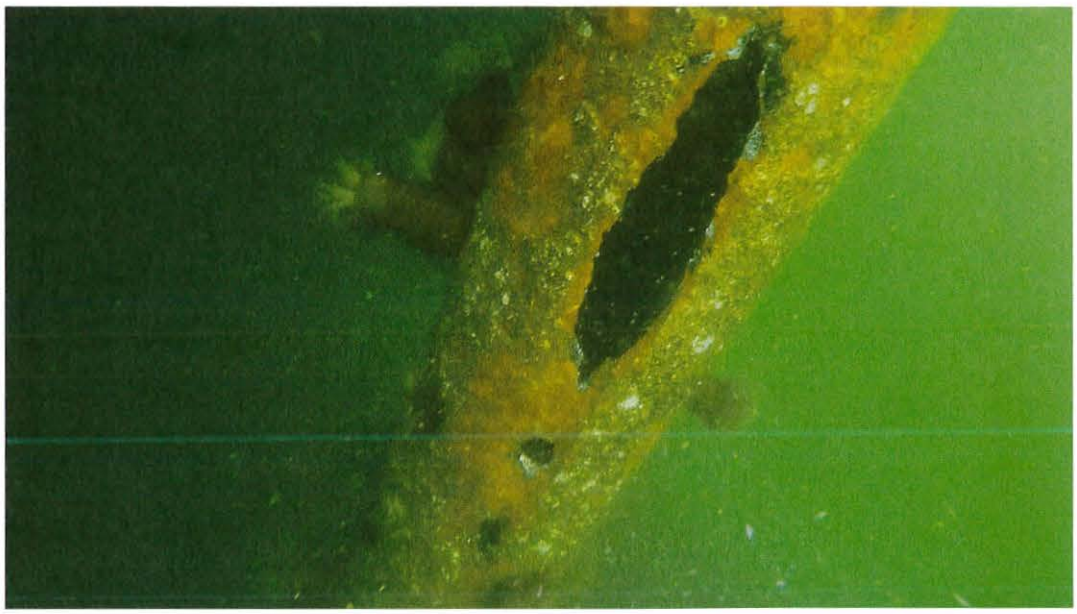
Photo Type: R - Repair

Orientation: DN

Date: 4/27/2021

Repairs: 10003

Pile F has 3-1/2"(W) x 18"(H), 2"(W) x 2-1/2"(H), and 1-1/2"(W) x 3"(H) holes from mechanical abrasion of log boom.



UW-18

8703 Spud Piling & Wells

Photo Type: R - Repair

Orientation: Sea

Date: 4/27/2021

Repairs: 10003

Pile J has a 3"(W) x 18"(H) hole from mechanical abrasion of log boom.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

UW-19

8703 Spud Piling & Wells

Photo Type: R - Repair

Orientation: Sea

Date: 4/27/2021

Repairs: 10003

Pile L has a 3"(W) x 24"(H) hole from mech abrasion of log boom.

UW-20

8703 Spud Piling & Wells

Photo Type: R - Repair

Orientation: Sea

Date: 4/27/2021

Repairs: 10003

Pile O has a 4"(W) x 24"(H) hole from mechanical abrasion of log boom.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

UW-21

8703 Spud Piling & Wells

Photo Type: R - Repair

Orientation: Sea

Date: 4/27/2021

Repairs: 10003

Pile P has a 5"(W) x 54"(H) large hole from mechanical abrasion of log boom.

UW-22

8703 Spud Piling & Wells

Photo Type: R - Repair

Orientation: Sea

Date: 4/27/2021

Repairs: 10003

Pile V has 4" (W) x 24"(H) and 3"(W) x 14"(H) holes from mechanical abrasion of log boom.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

UW-23

8703 Spud Piling & Wells

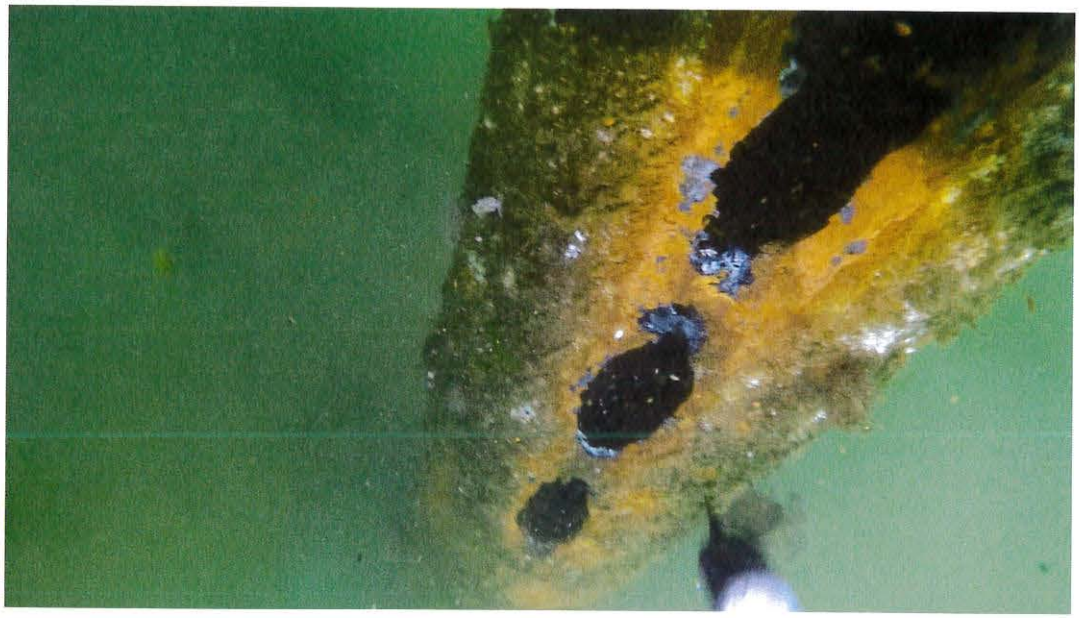
Photo Type: R - Repair

Orientation: Sea

Date: 4/27/2021

Repairs: 10003

Pile W has 4-1/2"(W) x 18"(H), 2-1/2"(W) x 7"(H), and 3"(W) x 8"(H) holes from mechanical abrasion of log boom.



UW-24

8703 Spud Piling & Wells

Photo Type: R - Repair

Orientation: Sea

Date: 4/27/2021

Repairs: 10003

Pile Y has a 3"(W) x 18"(H) hole and a 3" (W) x 6"(H) hole from mechanical abrasion of log boom.

Status: Released

Printed On: 8/5/2021

Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861

Release Date: 7/14/2021

Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying

Route On **Mile Post**

Intersecting STILL HARBOR (P. SOUND)

Route Under **Mile Post**

SI-25

8818 Other Pedestrian Railing

Photo Type: G - General

Orientation: W

Date: 4/26/2017

Repairs:

The steel post stanchions and rope rail have been removed from floats T thru Y.

SI-37

8902 Inorganic Zinc Vinyl Paint

Photo Type: G - General

Orientation: Right

Date: 4/27/2021

Repairs:

Typical shot of spud piles. Seam rust on welds are breaking through the paint.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

UW-8

8902 Inorganic Zinc Vinyl Paint

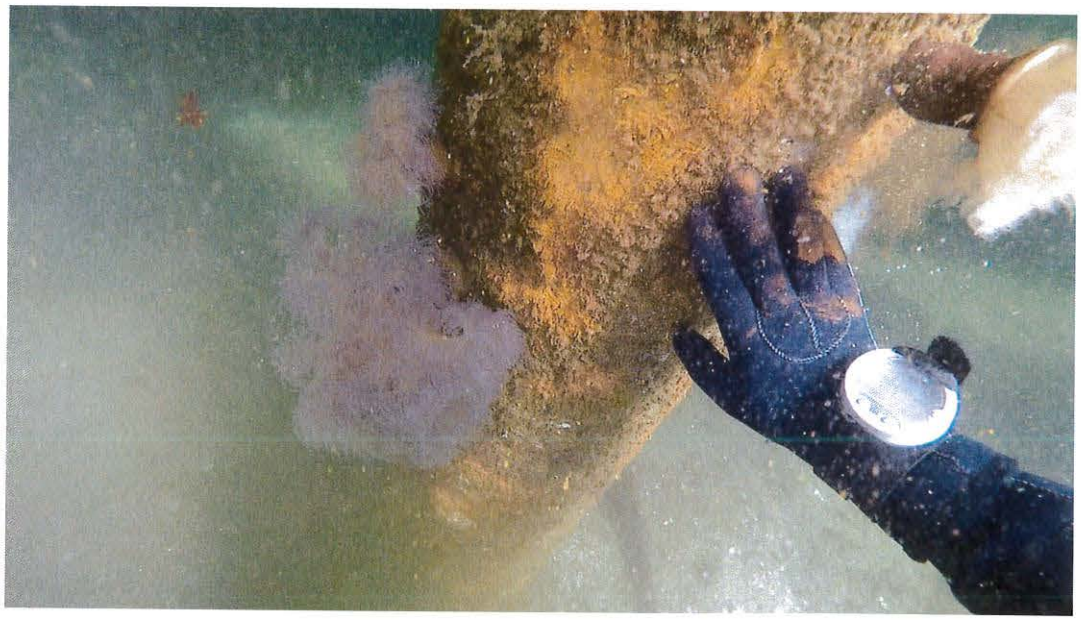
Photo Type: I - In Depth

Orientation:

Date: 4/27/2017

Repairs:

Typical pile condition underwater. Coating has failed over 25%-50% of the surface area on the piles below water. Example of ~25% exposed metal shown.



UW-25

8910 Safety Access Ladders

Photo Type: G - General

Orientation: Left

Date: 4/27/2021

Repairs:

There is a ladder attached to each end of the t-dock.

Status: Released | Printed On: 8/5/2021 | Agency: Other State Agencies

CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861 | Release Date: 7/14/2021 | Program Mgr: Evan M Grimm

Br. No. DOC-6 **SID** 00200441 **Br. Name** MCNEIL IS. STILL HARBOR DOCK

Carrying **Route On** **Mile Post**

Intersecting STILL HARBOR (P. SOUND) **Route Under** **Mile Post**

Entry Name	Folder Name	Type	Repairs	Page
SI-31	0 Orientation	G		1
SI-2	0 Orientation	E		1
UW-9	0 Orientation	W		2
UW-0	9 Underwater Report Executive Summary	W		2
SI-28	8112 Timber Sawn Girder	G		3
SI-26	8112 Timber Sawn Girder	G		3
SI-34	8112 Timber Sawn Girder	G		4
SI-33	8112 Timber Sawn Girder	G		4
SI-35	8112 Timber Sawn Girder	R	10004	5
SI-10	8390 Fixed Bearing	G		5
SI-11	8391 Moveable Bearing (roller, sliding, etc.)	G		6
SI-36	8408 Steel Sliding Plate Joint	G		6
SI-29	8701 Ferry Concrete Floating Pontoon	G		7
SI-30	8701 Ferry Concrete Floating Pontoon	G		7
SI-32	8701 Ferry Concrete Floating Pontoon	G		8
UW-1	8701 Ferry Concrete Floating Pontoon	G		8
SI-27	8703 Spud Piling & Wells	G		9
UW-2	8703 Spud Piling & Wells	M		9
UW-3	8703 Spud Piling & Wells	I		10
UW-4	8703 Spud Piling & Wells	I		10
UW-5	8703 Spud Piling & Wells	I		11
UW-6	8703 Spud Piling & Wells	I		11
UW-7	8703 Spud Piling & Wells	I		12
UW-10	8703 Spud Piling & Wells	R	10003	12
UW-11	8703 Spud Piling & Wells	R	10003	13
UW-12	8703 Spud Piling & Wells	R	10003	13
UW-13	8703 Spud Piling & Wells	R	10003	14
UW-14	8703 Spud Piling & Wells	R	10003	14
UW-15	8703 Spud Piling & Wells	R	10003	15
UW-16	8703 Spud Piling & Wells	R	10003	15
UW-17	8703 Spud Piling & Wells	R	10003	16
UW-18	8703 Spud Piling & Wells	R	10003	16
UW-19	8703 Spud Piling & Wells	R	10003	17
UW-20	8703 Spud Piling & Wells	R	10003	17
UW-21	8703 Spud Piling & Wells	R	10003	18
UW-22	8703 Spud Piling & Wells	R	10003	18
UW-23	8703 Spud Piling & Wells	R	10003	19
UW-24	8703 Spud Piling & Wells	R	10003	19
SI-25	8818 Other Pedestrian Railing	G		20
SI-37	8902 Inorganic Zinc Vinyl Paint	G		20
UW-8	8902 Inorganic Zinc Vinyl Paint	I		21
UW-25	8910 Safety Access Ladders	G		21

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
NBI STRUCTURE INVENTORY AND APPRAISAL REPORT
(ENGLISH UNITS)

CD Date: 6/29/2021 Printed on: 7/14/2021
CD Guid: e6d3761d-7a52-4345-8cc3-ba9e7bb81861

IDENTIFICATION

(1) STATE NAME - WASHINGTON 530
(8) STRUCTURE NUMBER # 002004410000000
(5) INVENTORY ROUTE (ON/UNDER) - Under 0 8 0 10210
STATE ROUTE MILEPOST 5.96
(2) HIGHWAY AGENCY DISTRICT -
(3) COUNTY CODE 53 - Pierce County (4) PLACE CODE 00000
(6) FEATURES INTERSECTED STILL HARBOR (P. SOUND)
(7) FACILITY CARRIED
(9) LOCATION MCNEIL ISLAND
(12) BASE HIGHWAY NETWORK - Not part of network 0
(13) LRS INV ROUTE AND SUB ROUTE
(11) LRS MILEPOST
(16) LATITUDE 47 Deg 12 Min 53.69 Sec
(17) LONGITUDE 122 Deg 39 Min 59.14 Sec
(98A) BORDER BR. - (98B) (99) BORDER BR. SID

STRUCTURE TYPE AND MATERIAL

(43) STRUCTURE TYPE MAIN: MATERIAL -
DESIGN -
(44) STRUCTURE TYPE APPR: MATERIAL -
DESIGN -
(45) NO. OF SPANS IN MAIN UNIT
(46) NO. OF APPROACH SPANS
(107) DECK STRUCTURE TYPE -
(108) WEARING SURFACE / PROTECTIVE SYSTEM:
(A) TYPE OF WEARING SURFACE -
(B) TYPE OF MEMBRANE -
(C) TYPE OF DECK PROTECTION -

AGE AND SERVICE

(27) YEAR BUILT 1998
(106) YEAR RECONSTRUCTED
(42) TYPE OF SERVICE ON - Other 0
UNDER - Other 0
(28) LANES: ON STRUCTURE 0 UNDER STRUCTURE 0
(29) AVERAGE DAILY TRAFFIC 0
(30) YEAR OF ADT (109) TRUCK ADT 0%
(19) BYPASS, DETOUR LENGTH 000

GEOMETRIC DATA

(48) LENGTH OF MAXIMUM SPAN
(49) STRUCTURE LENGTH
(50) CURB OR SIDEWALK: LEFT RIGHT
(51) BRIDGE ROADWAY WIDTH CURB TO CURB
(52) DECK WIDTH OUT TO OUT
(32) APPROACH ROADWAY WIDTH (W/SHOULDERS)
(33) BRIDGE MEDIAN -
(34) SKEW Deg (35) STRUCTURE FLARED
(10) INVENTORY ROUTE MIN VERT CLEAR 99 ft 99 in
(47) INVENTORY ROUTE TOTAL HORIZ CLEAR
(53) MIN VERT CLEAR OVER BRIDGE RDW
(54) MIN VERT UNDERCLEAR
(55) MIN LAT UNDERCLEAR RT
(56) MIN LAT UNDERCLEAR LT

NAVIGATION DATA

(38) NAVIGATION CONTROL -
(111) PIER PROTECTION - Not Applicable
(39) NAVIGATION VERTICAL CLEARANCE
(116) VERT-LIFT BRIDGE NAV MIN VERT CLR
(40) NAVIGATION HORIZONTAL CLR

WSBIS DATA

BRIDGE NUMBER DOC-6
BRIDGE NAME MCNEIL IS. STILL HARBOR DOCK
CUSTODIAN Other State Agencies
CROSSING DESC
MAIN LISTING FLAG M
SUFFICIENCY RATING

CLASSIFICATION

(112) NBIS BRIDGE LENGTH
(104) HIGHWAY SYSTEM - Not on the NHS 0
(26) FUNCTIONAL CLASS -
(100) DEFENSE HIGHWAY - Not a STRAHNET route 0
(101) PARALLEL STRUCTURE -
(102) DIRECTION OF TRAFFIC -
(103) TEMPORARY STRUCTURE - Not Applicable
(105) FEDERAL LANDS HIGHWAY -
(110) DESIGNATED NATIONAL NETWORK - Not part of network 0
(20) TOLL -
(21) MAINTENANCE -
(22) OWNER -
(37) HISTORICAL SIGNIFICANCE -

CONDITION

(58) DECK
(59) SUPERSTRUCTURE
(60) SUBSTRUCTURE
(61) CHANNEL AND CHANNEL PROTECTION
(62) CULVERTS

LOAD RATING AND POSTING

(31) DESIGN LOAD -
(63) OPER RATING METHOD -
(64) OPERATING RATING
(65) INV RATING METHOD -
(66) INVENTORY RATING
(70) BRIDGE POSTING -
(41) STRUCT OPEN, POSTED, CLOSED -

APPRAISAL

(67) STRUCTURAL EVALUATION
(68) DECK GEOMETRY
(69) UNDERCLEARANCES, VERTICAL & HORIZONTAL
(71) WATERWAY ADEQUACY
(72) APPROACH ROADWAY ALIGNMENT
(36) TRAFFIC SAFETY FEATURES
(113) SCOUR CRITICAL BRIDGE

PROPOSED IMPROVEMENTS

(75) TYPE OF WORK -
(76) LENGTH OF STRUCTURE IMPROVEMENT
(94) BRIDGE IMPROVEMENT COST
(95) ROADWAY IMPROVEMENT COST
(96) TOTAL PROJECT COST
(97) YEAR OF IMPROVEMENT COST ESTIMATE
(114) FUTURE ADT
(115) YEAR OF FUTURE ADT

INSPECTIONS

(90) INSPECTION DATE (91) FREQUENCY MO
(92) CRITICAL FEATURE INSPECTION: (93) CFI DATE
(A) FRACTURE CRIT DETAIL - NO - Month (A) __/__
(B) UNDERWATER INSP - NO - Month (B) __/__
(C) OTHER SPECIAL INSP - NO - Month (C) __/__