### **Ecological No Net Loss Assessment Report**

**Prepared for** 

Jack and Myra Hanover 6460 E Mercer Way Mercer Island, WA 98040

Prepared by

W Northwest Environmental Consulting, LLC

Northwest Environmental Consulting, LLC 600 North 36<sup>th</sup> Street, Suite 423 Seattle, WA 98103 206-234-2520

September 2022

### Purpose

The purpose of this report is to fulfill the requirements of City of Mercer Island Municipal Code (MICC) 19.07.110 Shoreline Master Program by assessing overall project impacts and proposed mitigation to determine if the project meets the "No Net Loss" General Regulation of the Shoreline Master Program.

No Net Loss is defined as "An ecological concept whereby conservation losses in one geographic or otherwise defined area are equaled by conservation gains in function in another area."

Permits are being applied for a dock extension and associated moorage improvements.

### Location

The subject property is located at 6460 E Mercer Way (King County parcel number 2926000010) in the City of Mercer Island, Washington (see Appendix A – Sheet A1.0). The parcel is on the waterfront of Lake Washington, a shoreline of the state, that contains several endangered fish species listed under the Endangered Species Act and Washington State designated priority fish species.

## **Project Description**

The proposed construction involves removing 80 linear feet of skirting from the existing dock. The new extension will require driving 14, 8-inch epoxy coated steel piles. The superstructure of the dock will be built on the new pilings and grated decking will be installed and moorage hardware installed. The existing boat lift will be relocated into deeper water.

The existing personal watercraft lift was not permitted and is included in this analysis to be permitted. See Appendix A – Sheets A2.0 to A 6.0).

During construction, a floating boom will surround the work barge and dock. (See Appendix A – Sheets A7.0)

A shoreline vegetation plan is proposed, that will add 1 native conifer and 1 native willow tree. An additional 3 native willow shrubs will also be planted. These shoreline plantings will provide shade and allow beneficial allochthonous material to enter the lake along the shoreline (see Appendix A – Sheet A8.0 and A9.0).

Project drawings are included in Attachment A.

## Approach

Northwest Environmental Consulting LLC (NWEC) biologist Brad Thiele conducted a site visit on September 22, 2022 to evaluate conditions on site and adjacent to the site. NWEC also consulted the following sources for information on potential critical fish and wildlife habitat along this shoreline:

• Washington Department of Fish and Wildlife (WDFW): Priority Habitats and Species online database (http://apps.wdfw.wa.gov/phsontheweb/)

- WDFW SalmonScape online database of fish distribution and ESA listing units (https://apps.wdfw.wa.gov/salmonscape/)
- Mercer Island GIS online database (https://chgis1.mercergov.org/Html5Viewer/Index.html?viewer=PubMaps&viewer=PubM aps)

### **Site Description**

The subject property is a shoreline tract in a residential neighborhood. It has shoreline on its eastern boundary with single-family homes to the north and south along the shoreline.

The only existing structures on the property are the house, and the existing wood decked dock.

The shoreline is armored with a basalt bulkhead with block stairs and a block retaining wall immediately landward of the bulkhead. The substrate of the lake is mostly sand and is shallow.

The shoreline is lawn with ornamental beds. A sand volleyball court is present between the lawn area and patio area and the bulkhead. A HDPE pipe is present south of the dock. The piped watercourse is likely causing sandy sedimentation to buildup along the shoreline.

The neighboring shorelines are landscaped with bulkheads and docks. See attached photos in Appendix B- Photos.

## **Species Use**

WDFW's PHS mapping and SalmonScape mapping tools show the following salmonid species using Lake Washington for migration and/or rearing: residential coastal cutthroat (*Oncorhynchus clarkii*), winter steelhead (*O. mykiss*), Dolly Varden/bull trout (*Salvelinus malma*), sockeye salmon (*O. nerka*), fall Chinook (*O. tshawytscha*), coho salmon (*O. kisutch*), and kokanee (*O. nerka*). The SalmonScape database maps the site as accessible to the Endangered Species Units (ESU) of Threatened Chinook and steelhead. Juveniles migrate and may rear in the waters near the project when traveling from spawning sites on other lake tributaries to the lakes system's outlet at the Hiram M. Chittenden Locks. The project site is accessible to any fish migrating or rearing in the lake. The shoreline is mapped as at or very near a sockeye salmon spawning location.

Priority Habitats and Species mapping, maps a biodiversity area at Pioneer Park about 750 feet to the west. An emergent wetland is mapped as occurring about 250 feet to the north.

The City of Mercer Island GIS Portal indicates a non-fish bearing piped watercourse is present on the parcel to the south.

### **Project Impacts and Conservation Measurements**

#### Direct Impacts:

**Sediments:** Sediment disturbance will occur below the OHWM during pile installation, Additionally, the tug and barge propwash may disturb sediments temporarily when making trips to and from the site.

Impacts to sediments should be minimal from installation of the pilings. The project will meet

state water quality standards.

**Shoreline:** Planting native vegetation, including a native cedar tree and willows, will increase the habitat functions of the shoreline by creating shade along the shoreline that will be an improvement from the existing baseline habitat conditions at the project site. These plants will provide overhanging cover for fish, structural diversity for birds and wildlife, detritus for aquatic invertebrates and long-term recruitment of woody material and other allochthonous food sources. The proposed planting plan is included (see Appendix A - Sheet A8.0).

**Lakebed:** Construction of the dock extension includes driving 14, 8-inch pilings. This will result in 4.9 square feet of lake bottom displacement.

**Stream:** A watercourse outlet is present adjacent to the dock. The watercourse is causing sediment buildup along the shoreline. Building the dock out into deeper water will reduce propwash from docking and castoff of water craft. The extension will not affect the watercourse.

**Noise:** Construction equipment will create noise audible to neighbors and in-water. Noise disturbance will be short-term and should have negligible effects on fish and wildlife in the area. Work will be completed during the in-water work window when juvenile fish are not expected to be present in larger numbers.

**Potential spills:** Short-term risks include the potential for petroleum spills that can occur with any equipment operation. The level of impact to the aquatic environment is expected to be minor because a trained crew will be onsite that will implement spill containment measures should a spill occur.

**Shading:** The proposed dock will increase overwater coverage by 326 square feet. The proposed decking will be ThruFlow grated decking. Grated decking allows light to penetrate the waters below the dock, which can increase productivity in the water column, and reduce the full shade favored by salmonid predators. Salmonid predators are known to use hard shadowing under solid-decked docks to ambush juvenile salmonids. Reducing these hard shadows limits their ability to effectively hunt salmonids. In addition, hard shadowing may increase juvenile salmonid outmigration times when encountered along the shoreline.

ThruFlow grated decking has a measured performance at 43 percent light penetration (ThruFlow, 2021). Thus, the increase in lighting under the pier is effectively 57% of the area of a solid decked structure. Table 1 provides a summary of effective coverage:

#### Table 1 – Effective coverage

	Existing/ Proposed	Proposed grated	Conversion	Effective coverage	Reduction in effective coverage
New Grated Dock (SF)	0	326	0.57	186	140

The use of grated decking at the site reduces the effective coverage of the new structure by 140 square feet.

In addition the new dock configuration will place moorage into water 4 to 6 feet deep.

**Recreational Boating:** The project supports continued recreational boating, which has been identified as a limiting factor for salmonid populations in Lake Washington. The pier will not

introduce additional boating to Lake Washington, as the owners could still access the lake from a public boat launch or private moorage facility.

#### Other Conservation measures:

**Work window:** The work will be completed during the prescribed in-water work window for this area of Lake Washington (July 16 to December 31). Operating within this time frame helps protect Chinook salmon, steelhead, bull trout and other salmonid fish species by doing work when juvenile fish are not expected to be present.

**Best Management Practices:** Applicable BMPs will be used, such as a floating boom around the in-water work area, to contain any floating debris that may escape during construction. The barge will have a perimeter containment sock to absorb oil and grease that might inadvertently wash from the barge during construction.

Hazardous material containment supplies such as spill absorbent pads and trained personnel will be required onsite during any phase of construction where machinery is in operation near surface waters.

**In-lieu Fee:** The shoreline on the subject property will be planted with native, overhanging vegetation. The project also requires approval from the National Marine Fisheries Service (NMFS). NMFS has developed a calculator to determine appropriate mitigation costs for proposed in-water structures in Lake Washington. This calculator has established a fund that owners can pay into if they are not willing or cannot find mitigation to offset impacts from the project. The owner is not able to complete the required mitigation at the subject property and the property owners will pay into the in-lieu fee program to mitigate project impacts. An in-lieu fee program is defined as follows:

"A program involving the restoration, establishment, enhancement, and/or preservation of aquatic resources through funds paid to a governmental or non-profit natural resources management entity to satisfy compensatory mitigation requirements... Similar to a mitigation bank, an in-lieu fee program sells compensatory mitigation credits to permittees whose obligation to provide compensatory mitigation is then transferred to the in-lieu program sponsor." (Fed. Reg. 40 CFR Part 230)

The fee has been determined using the Restoration And Permitting (RAP) Calculator for Lake Washington and will be paid to King County Water & Land Resources Division. This funding has been used to remove 350 derelict piles from the mouth of the Cedar River in Lake Washington.

### Conclusion

Juvenile Chinook salmon, and other salmonids, rear and migrate along the Lake Washington shoreline.

There will be temporary impacts from noise and disturbed sediments during construction. Construction disturbance and dock reconfiguration will degrade ecological conditions at the site by increasing overwater coverage at the site. The effects of construction will be short term. The dock will use grated decking to minimize the effective overwater coverage to a net gain of 186 square feet. The grating reduces the hard shadows favored by salmonid predators and increases productivity under the pier. In addition, the new structure is in deeper water more than 30 feet from shore. Overwater structures may slow juvenile salmonid outmigration times. Constructing the new moorage away from shore will reduce the chances of delaying outmigrating juvenile salmonids.

The project will displace about 4.9 square feet of lakebed from installation of new pilings.

The project will minimize construction effects on the environment by following the prescribed fish window and using applicable BMPs to prevent construction spills, turbidity, and floating debris from escaping the area. The construction crew will retrieve all dropped items from the bottom and dispose of them properly.

Ecological conditions at the site will be improved by placing the watercraft lift in the deepest water to prevent or reduce sediment disturbance during docking and castoff from propwash over the existing condition.

A shoreline planting plan will be implemented that will add native trees and shrubs to the shoreline that will provide natural shading, allochthonous food sources and will eventually be a source of woody materials that will improve shoreline conditions at the site in the long-term. The owner has also opted to pay into the In Lieu Fee program that will be used for conservation projects that benefit salmon in King County.

This project has been designed to meet current residential dock standards and will use Best Management Practices to reduce project impacts. The conservation measures are designed to improve ecological functions or prevent further degradation of habitat **and will result in No Net Loss of ecological functions**.

### **Document Preparers**

Brad Thiele

Biologist

28 years of experience

Northwest Environmental Consulting, LLC (NWEC)

The conclusions and findings in this report are based on field observations and measurements and represent our best professional judgment and to some extent rely on other professional service firms and available site information. Within the limitations of project scope, budget, and seasonal variations, we believe the information provided herein is accurate and true to the best of our knowledge. Northwest Environmental Consulting does not warrant any assumptions or conclusions not expressly made in this report, or based on information or analyses other than what is included herein.

- King County. 2022. King County iMap. Online database. Accessed September 2022 at https://gismaps.kingcounty.gov/iMap/
- Washington Department of Fish and Wildlife (WDFW). 2022. Priority Habitats and Species. Online database. Accessed September 2022 at http://apps.wdfw.wa.gov/phsontheweb/
- WDFW. 2022. SalmonScape. Online database. Accessed September 2022 at http://apps.wdfw.wa.gov/salmonscape/

# Appendix A: Project Drawings

# SITE PLAN





	NWS-202 PAGE 1	21-XXX OF 13
sqft of extensions, permit the existing	SHEET	A1.0
JBJECT OPERTY	Datum: CORPS OF ENGIN NE Quarter Of Section 30,	Adjacent Owners: KONERU DHEERAJ 6610 E MERCER WAY 98040
	IEERS 1919 Township 24, Range 05	SIMPSON TYLER G & ANDREA 6454 E MERCER WAY 98040
	Applicant: Hanover Residence 6460 E Mercer Way Mercer Island, WA 98040	Created: 07-25-22
	County: King County Location: Lake Washingt	Last Updated: 8/24/2022 2:37 PM Zion
	L L	

# GENERAL NOTES:

### MATERIALS SPEC LIST:

### Boat Lifts: Aluminum

- \* SL10014ARW 146" x 191"
- \* SL2008AR2D2 52" x 66" (Jetski Lift)

### Decking Material: FRPP - Fiberglass reinforced polypropylene

Open Air percentage:

\* Surface - 43%

### Sewer:

\* All sewer is field verified by probing the lake bed manually during the allowed work windows for the area.

#### Piles:

- \* All new piles are epoxy coated steel piles \*size varies, see plan set
- \* Piles are driven using the vibro method

### CODE REFERENCES: Mercer Island

We are applying for the permit to be reviewed under the:

#### "Alternative Development Standards" per MIMC 19.13050(F)(3).

The code official shall approve moorage facilities not in complia subsection (F)(1) or (F)(2) of this section subject to both U.S. Ar Department of Fish and Wildlife approval to an alternate project other applicable provisions in this chapter shall be met:

i. The dock must be no larger than authorized through state ar Master Program | Mercer Island City Code Page 30 of 34 The M Ordinance 20C-13, passed June 16, 2020.

The dock will be no larger than authorized.

ii. The maximum width must comply with the width of moorag specified in subsection D of this section (Table D);

#### The maximum width will comply.

iii. The minimum water depth must be no shallower than autho

#### The minimum water depth will be no shallower than authoriz

iv. The applicant must demonstrate to the code official's satisfa a net loss in ecological function of the shorelands; and

#### NNL report attached.

v. The applicant must provide the city with documentation of a U.S. Army Corps of Engineers and the Washington Department

#### Under review by CORPS and WDFW.

Mitigation" Disturbance of bank vegetation shall be limited to the m project. Disturbed bank vegetation shall be replaced with native, loc Herbaceous plantings shall occur within 48 hours of the completion shall be planted in the fall or early winter, whichever occurs first. Th ensure revegetation success;

Last permit issued for property: SHL9904-212 03/17/1999 Dock established/constructed: 10/08/1981



Seaborn Pile Driving 1080 W Ewing St Seattle, WA 98119 Office: 206-236-1700

Office: 206-236-1700 ext. 3 www.seabornpiledriving.com

Scope of Work: We propose toremove (80) Inft of skirting, drive(14) 8" steel piles, install 326 PWC lift, and relocate the existing boat lift.

	NWS- PAGE	2021-XXX E 2 OF 13
sqft of extensions, permit the existing	SF A	IEET A2.0
nnimum amount necessary to accomplish the cally adapted herbaceous and/or woody vegetation of construction. Woody vegetation components he applicant shall take appropriate measures to	Datum: CORPS OF ENGINEERS NE Quarter Of Section 30, Towns	Adjacent Owners: Koneru Dheeraj 6610 E Mercer Way 98040 640
approval of the moorage facilities by both the of Fish and Wildlife.	8 1919 ship 24, Range 05	MPSON TYLER G & ANDREA 454 E MERCER WAY 98040
zed. action that the proposed project will not creat	a Applican	Created: 0
e facilities standards specified in standards prized through state and federal approval;	t: Hanover Resider 6460 E Mercer Way	Mercer Island, WA 98 7-25-22
nd federal approval; Ch. 19.13 Shoreline Aercer Island City Code is current through	Ce	040 Last L
ance with the development standards in rmy Corps of Engineers and Washington ct design. The following requirements and all	County: Location:	Jpdated: 8/24/2
	King County Lake Washington	022 2:37 PM Zion





# PIER DETAILS - EXISTING/PROPOSED



PLAN VIEW

![](_page_12_Picture_3.jpeg)

Seaborn Pile Driving 1080 W Ewing St Seattle, WA 98119 Office: 206-236-1700 ext. 3

www.seabornpiledriving.com

Scope of Work: We propose toremove (80) Inft of skirting, drive(14) 8" steel piles, install 326 PWC lift, and relocate the existing boat lift.

# PIER DETAILS EXISTING/PROPOSED

![](_page_13_Figure_1.jpeg)

SECTION VIEW: A'-A'

![](_page_13_Picture_3.jpeg)

	NWS-20	021-XXX
sqft of extensions, permit the existing	SH A	EET 6.0
	Datum: CORPS OF ENGINEERS 1919 NE Quarter Of Section 30, Township 24, Range 05	Adjacent Owners:   simpson tyler G& ANDREA     KONERU DHEERAJ   6610 E MERCER WAY 98040
- 1'-4" OHWL LAKE WASHINGTON	Applicant: Hanover Residence 6460 E Mercer Way	Mercer Island, WA 98040 Created: 07-25-22
	County: King County Location: Lake Washington	Last Updated: 8/24/2022 2:37 PM Zion

# BMP INFORMATION

![](_page_14_Figure_1.jpeg)

# MITIGATION PLAN

![](_page_15_Figure_1.jpeg)

![](_page_15_Figure_2.jpeg)

#### Notes:

- 1. Shrubs are show, and shall be planted, at least five feet on center. Trees are show, and shall be planted, at least ten feet to center.
- 2. The property owner will implement and abide by the shoreline planting plan. The plants shall be installed before or concurrent with the work authorized by this permit. A report, as-built drawing and photographs demonstrating the plants have been installed or a report on the status of project construction will be submitted to the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch, within 12 months from the date of permit issuance. This reporting requirement may be met by completing and submitting a U.S. Army Corps of Engineers approved Report for Mitigation Work Completion form.
- 3. The property owner will maintain and monitor the survival of installed shoreline plantings for five years after the U.S. Army Corps of Engineers accepts the as-built report. Installed plants shall achieve 100% survival during monitoring Years 1 and 2. Installed plants shall achieve at least 80% survival during monitoring Years 3, 4 and 5. Percent survival is based on the total number of plants installed in accordance with the approved riparian planting plan. Individual plants that die will be replaced with native riparian species in order to meet the survival performance standards.
- 4. The property owner will provide annual monitoring reports for five years (Monitoring Years 1-5). Each annual monitoring report will include written and photographic documentation on plant mortality and replanting efforts and will document whether the performance standards are being met. Photos will be taken from established points and used repeatedly for each monitoring year. In addition to photos at designated points, photo documentation will include a panoramic view of the entire planting area. Submitted photos will be formatted on standard 8 1/2 x 11" paper, dated with the date the photo was taken, and clearly labeled with the direction from which the photo was taken. The photo location points will be identified on an appropriate drawing. Annual shoreline planting monitoring reports will be submitted to the U.S. Army Corps of Engineers, Seattle District, Regulatory Branch, by November 31 of each monitoring year. This reporting requirement may be met by completing and submitting a U.S. Army Corps of Engineers approved Mitigation Planting Monitoring Report form.

<image/> <image/> <section-header><section-header><section-header><section-header><text><text><text></text></text></text></section-header></section-header></section-header></section-header>	<complex-block></complex-block>	SHRUB AND GROL			ver Residence County: King County Mercer Way Location: Lake Washington	lsland, WA 98040 Last Updated: 8/24/2022 2:37 PM Zion
PROPOSED PLANTING SPECIES/QUANTITIES				licant: Hand 6460	Merce ed: 07-25-22	
SYMBOL			QTY	SIZE	05 Appl	DREA
	Thuja plicata	Western Red Cedar	1	3 ft	, Range	YLER G & AN KCER WAY 98
	Salix Lucida	Pacific Willow	1	3 ft	3S 1919 nship 24	SIMPSON T 6454 E MEF
	Salix sitchensis	Sittka Willow	2	1 gal / 3 gal	JGINEEF 30, Tow	
*	Salix scouleriana Scouler willow 1 1 gal / 3 gal		S OF EN Section	<b>NNErS:</b> 98040		
PLANTS: Shrubs to be	e installed 5ft on center and tree	es to be installed 10ft on	center.		Datum: CORP NE Quarter Of	Adjacent Ov Koneru dheeraj 6610 e mercer way
(80) Inft of skirting, c t lift.	lrive(14) 8" steel piles, install 3	326 sqft of extensions, p	ermit t	he existing	SF	IEET \8.0
					NWS- PAGE	2021-XXX E 8 OF 13

BUILTBY
SEABORN
• ESTD 1947 •

Seaborn Pile Driving 1080 W Ewing St Seattle, WA 98119 Office: 206-236-1700 ext. 3 www.seabornpiledriving.com Scope of Work: We propose toremov PWC lift, and relocate the existing bo

![](_page_16_Figure_0.jpeg)

	qft of extensions,				ampas Grass	MMON NAME	CIES/QUA	
	permit <sup>·</sup>				8	QTY	ANT	
	the existing				3 ft	SIZE	ITIES	
	g						_	
NWS-2	SHEET	Datum: CORPS OF ENGINEERS 1919 NE Quarter Of Section 30, Township 24,	Range 05	Applicant: Hanover Residence 6460 E Mercer Way	Cou	nty: Ki ition: La	ng County ke Washingt	L L
021-XX	A9.0	Adjacent Owners:		Mercer Island, WA 98040				
(		KUNEKU DHEEKAJ 6610 E MERCER WAY 98040 6454 E MERCI	ER WAY 98040	Created: 07-25-22	Last Updatec	: 8/24/2022	: 2:37 PM Zion	

# FRAMING PLAN

![](_page_17_Figure_1.jpeg)

PLAN VIEW

![](_page_17_Picture_3.jpeg)

Seaborn Pile Driving 1080 W Ewing St Seattle, WA 98119 Office: 206-236-1700 ext. 3

www.seabornpiledriving.com

Scope of Work: We propose toremove (80) Inft of skirting, drive(14) 8" steel piles, install 326 sql PWC lift, and relocate the existing boat lift.

	NWS	-2021-X E 10 OF	XX 13
ft of extensions, permit the existing		A10.0	
	Datum: CORPS OF ENGINEERS 1919 NE Quarter Of Section 30, Township 24, Range 05	Adiacent Owners:	KONERU DHEERAJ SIMPSON TYLER G & ANDREA 6610 E MERCER WAY 98040
	Applicant: Hanover Residence	Mercer Island, WA 98040	Created: 07-25-22
	County: Location:		Last Updated: 8/24/2
	King County Lake Washington		:022 2:37 PM Zion

# DETAILS - TRACK

![](_page_18_Figure_1.jpeg)

Batum: CORPS OF ENGINEERS 1919 Applicant: Hanover Residence County: King Co   Mercer Island, WA 38040 Gunty: King Co Last Updated: 8/24/2022.2:37 F	sqft of extensions, permit the existing	SHEET	11.0
Applicant: Hanover Residence 6460 E Mercer Nay Mercer Island, WA 98040 Coatton: Lake W Location: Lake W Location: Lake W Location: Lake W	COUNTERSINK BOLT:	Datum: CORPS OF ENGINEERS 1919 NE Quarter Of Section 30, Township 24, Range 05	Adjacent Owners: SIMPSON TYLER G & ANDREA 6610 E MERCER WAY 98040 6454 E MERCER WAY 98040
County: King Co Location: Lake W Last Updated: 8/24/2022 2:37 F	SLEEPER, PER PLAN (TYP) CONT EPOXY COATED PL	Applicant: Hanover Residence 6460 E Mercer Way	Mercer Island, WA 90040 Created: 07-25-22
unty M Zion		County: King County Location: Lake Washington	Last Updated: 8/24/2022 2:37 PM Zion

![](_page_19_Figure_1.jpeg)

# HARDSCAPE CALCULATIONS

		Allowed Impervious Quantities     SETBACK (total sqft)   ALLOWED   CURRENTLY USED   REMOVING     0' - 25' SETBACK   10%   24.3983%   0%     (2,463.2883 sqft)   (246.32883 sqft)   (601 sqft)   (0 sqft)     25' - 50' SETBACK   30%   15.8769%   0%     (2 317 0/40 sqft)   (665 11347 sqft)   (358 sqft)   (0 sqft)
		Image: constraint of the second se
		FIREPIT 50FT SETBACK 149 sqft
(BUILT By SEADORN)	Seaborn Pile Driving 1080 W Ewing St Seattle, WA 98119	Scope of Work: We propose to remove (80) Inft of skirting, drive (14) 8" steel piles, install 320 existing PWC lift, and relocate the existing boat lift.
ESTD 1947	Office: 206-236-1700 ext. 3 www.seabornpiledriving.com	

	SH S	A
6 sqft of extensions, permit the	EET	3.0
井丰	Datum: CORPS C NE Quarter Of Se	Adjacent Owne Koneru Dheeraj 6610 e Mercer Way 3804
	DF ENGIN ection 30,	ers:
	VEERS 1919 Township 24, Range 05	SIMPSON TYLER G & ANDREA 6454 E MERCER WAY 98040
	Applicant: Ha	Mer Created: 07-25-2
	nover Residence 0 E Mercer Way	cer Island, WA 98040 2 L
PROPOSED 24.3983% (246.32883 sqft) 15.8769% (665.11347 sqft)	County: Location:	ast Updated: 8/24/2
	King County Lake Washington	2022 3:03 PM Zion

## Appendix B: Site Photographs

![](_page_22_Picture_0.jpeg)

Photo 1 - Existing dock looking waterward.

![](_page_22_Picture_2.jpeg)

Photo 2 - Existing dock looking shoreward.

![](_page_23_Picture_0.jpeg)

Photo 3 - Shoreline conditions looking north.

![](_page_23_Picture_2.jpeg)

Photo 4 - Shoreline conditions south of dock.

![](_page_24_Picture_0.jpeg)

Photo 5 - Shoreline conditions north of site.

![](_page_24_Picture_2.jpeg)

Photo 6 - Shoreline conditions south of site.