

FORM <b>1</b> GENERAL	 <b>U.S. ENVIRONMENTAL PROTECTION AGENCY</b> <b>GENERAL INFORMATION</b> <i>Consolidated Permits Program</i> <i>(Read the "General Instructions" before starting.)</i>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2">I. EPA I.D. NUMBER</td> <td style="width:10%; text-align: center;">T/A</td> <td style="width:10%; text-align: center;">C</td> </tr> <tr> <td style="width:5%;">S</td> <td style="width:15%;">WA-003086-4</td> <td></td> <td></td> </tr> <tr> <td>F</td> <td></td> <td></td> <td>D</td> </tr> <tr> <td>1</td> <td>2</td> <td>13</td> <td>15</td> </tr> </table>	I. EPA I.D. NUMBER		T/A	C	S	WA-003086-4			F			D	1	2	13	15																																					
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<b>II. POLLUTANT CHARACTERISTICS</b> INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of <b>bold-faced terms</b> .																																																							
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## VII. SIC CODES (4-digit, in order of priority)

A. FIRST										B. SECOND																	
C	7	3	7	3	1	(specify)					C	7	(specify)														
15	16	-	19	Ship and Boat Repair										15	16	-	19										
C. THIRD										D. FOURTH																	
C	7	(specify)									C	7	(specify)														
15	16	-	19											15	16	-	19										

## VIII. OPERATOR INFORMATION

A. NAME																																																		B. Is the name listed in Item VIII-A also the owner?																					
C	8	Northlake Shipyard Inc.																																																<input type="checkbox"/> YES <input type="checkbox"/> NO																					
15	16																																																	55	66																				
C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box: if "Other," specify.)																																																		D. PHONE (area code & no.)																					
F = FEDERAL S = STATE P = PRIVATE																									M = PUBLIC (other than federal or state) O = OTHER (specify)																									P		(specify)										A (206) 632-1441									
																																																		56												15 16 - 18 19 - 21 22 - 26									

E. STREET OR P.O. BOX																																																	
1441 N Northlake Way																																																	
26 55																																																	

F. CITY OR TOWN																																								G. STATE					H. ZIP CODE					IX. INDIAN LAND				
C	B	Seattle																																						WA					98103					Is the facility located on Indian lands? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
15	16																																							40 41 42 47 - 51					52									

## X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)															D. PSD (Air Emissions from Proposed Sources)																
C	T	I													C	T	I														
9	N		WA-003086-4												9	P															
15	16	17	18	30												15	16	17	18	30											
B. UIC (Underground Injection of Fluids)															E. OTHER (specify)																
C	T	I													C	T	I														
9	U														9			(specify)													
15	16	17	18	30												15	16	17	18	30											
C. RCRA (Hazardous Wastes)															E. OTHER (specify)																
C	T	I													C	T	I														
9	R														9			(specify)													
15	16	17	18	30												15	16	17	18	30											

## XI. MAP


Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

## XII. NATURE OF BUSINESS (provide a brief description)

Small, family owned, ship and boat repair facility. Operates two floating dry dock of 1900 ton and 1000 ton deadweight capacity. Additionally operates cranes, forklifts, and other shipyard equipment. Employs three (3) full-time exempt management employees and five (5) full-time non-exempt employees for operation and maintenance of the business. Ship owners and operators subcontract with maritime industry vendors for production services and materials (painting, welding, machining, tank cleaning, etc.)

## XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)																				B. SIGNATURE																				C. DATE SIGNED									
E. Peter Kelly																																								4/12/18									

## COMMENTS FOR OFFICIAL USE ONLY

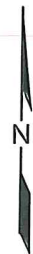
C																																									
C																																									
15	16																																								





Source: Base map prepared from DeLorme Topo 7.0, 2007.

0 0.5 1.0  
Scale in Miles



Northlake Shipyard  
Seattle, Washington

Vicinity Map

19045-00

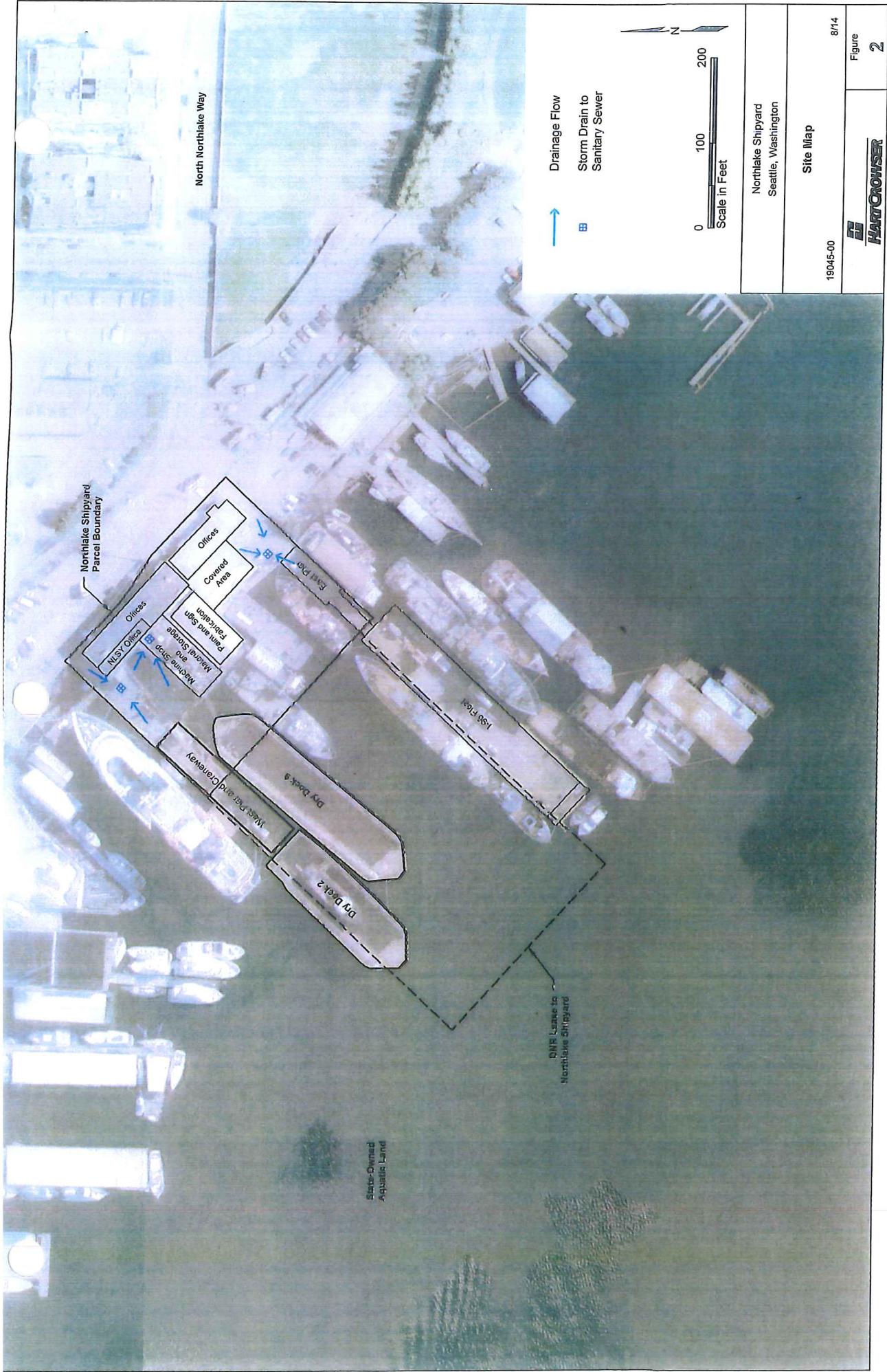
8/14



Figure

1





Northlake Shipyard Seattle, Washington	
Site Map	
19045-00	8/14
<b>HART-CROWNER</b>	Figure
	<b>2</b>

RECEIVED

MAY 22 2018

DEPARTMENT OF ECOLOGY

EPA I.D. NUMBER (copy from Item 1 of Form 1)

WA-003086-4

Form Approved.  
OMB No. 2040-0086.  
Approval expires 3-31-98.FORM  
2C  
NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY  
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER  
**EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS**  
Consolidated Permits Program

**I. OUTFALL LOCATION**

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
1-Dry Dock #9	47.00	36.00	30.00	122.00	21.00	33.00	Lake Washington Ship Canal
2-Dry Dock #2	47.00	36.00	30.00	122.00	21.00	33.00	Lake Washington Ship Canal

**II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES**

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
1-Dry Dock #9	Dry dock flood water flows over the	Unknown	The dry dock is cleaned daily of debri. Prior	XX	
	dry dock work deck when the dock		to vessel launch, dry dock is manually swept		
	is lowered to launch and recieve		washed down and inspected. Rain water and wash		
	vessels		water are contained, collected and temporarily		
2-Dry Dock #2		Unknown	held in shipyard collection tanks for further	XX	
			truck transfer to a certified waste water		
			processing site.		

OFFICIAL USE ONLY (effluent guidelines sub-categories)

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☒ YES (complete the following table)☐ NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)		B. TOTAL VOLUME (specify with units)		C. DURATION (in days)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
1- Dry Dock #9	Dry dock flood water.	1	12	Unknown	Unknown	Unknown	Unknown	50
2- Dry Dock #2	Dry dock flood water	1	12	Unknown	Unknown	Unknown	Unknown	50

## III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☐ YES (complete Item III-B)☒ NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

☐ YES (complete Item III-C)☒ NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	

## IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (complete the following table)☒ NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED
Sediment Sampling and Analysis	1	Dry Dock #9	Conduct bottom sediment sampling and analysis to assess permit compliance for Northlake Shipyard activities. Samples collected under the Interim Remedial Action of 2013 and 2014 will be used as a baseline for the permit sediment monitoring.	Fall 2018	Fall 2018
	2	Dry Dock #2			

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☒ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

EPA I.D. NUMBER (copy from Item 1 of Form I) WA-003086-4
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CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS			
A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.			
D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.			
1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS
Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct? <input type="checkbox"/> YES (list all such pollutants below ) <input checked="" type="checkbox"/> NO (go to Item VI-B)

Empty space for listing pollutants
------------------------------------



CONTINUED FROM THE FRONT

**VII. BIOLOGICAL TOXICITY TESTING DATA**

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☐ YES (identify the test(s) and describe their purposes below)

☒ NO (go to Section VIII)

**VIII. CONTRACT ANALYSIS INFORMATION**

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☒ YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

☐ NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
Friedman & Bruya, Inc.	3012 16th Avenue West, Seattle, WA 98119	206-285-8282	Oil & Grease. Suspended and dissolved Cu, Zn, Pb. Turbidity.

**IX. CERTIFICATION**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE (type or print) <i>E Peter Kelly / President</i>	B. PHONE NO. (area code & no.) <i>206 632 1441</i>
C. SIGNATURE <i>[Signature]</i>	D. DATE SIGNED <i>April 12, 2018</i>



PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.  
SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
WA - 003036 - 4

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)										OUTFALL NO. 1 Dry Dock #9	
PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.											
1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)	4. INTAKE (optional)		b. NO. OF ANALYSES			
	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)			c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES		a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	b. MASS	
	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS							
a. Biochemical Oxygen Demand (BOD)											
b. Chemical Oxygen Demand (COD)											
c. Total Organic Carbon (TOC)											
d. Total Suspended Solids (TSS)											
e. Ammonia (as N)											
f. Flow	VALUE		VALUE					VALUE			
g. Temperature (winter)	VALUE		VALUE					VALUE	°C		
h. Temperature (summer)	VALUE		VALUE					VALUE	°C		
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM					STANDARD UNITS		

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS				5. INTAKE (optional)		b. NO. OF ANALYSES	
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION		(2) MASS
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS						
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X												
c. Color		X												
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (as N)		X												

## ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)		X												
h. Oil and Grease	X		< 3 mg/L	mg										
i. Phosphorus (as P), Total (7723-14-0)		X												
j. Radioactivity														
(1) Alpha, Total		X												
(2) Beta, Total		X												
(3) Radium, Total		X												
(4) Radium 226, Total		X												
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)		X												
l. Sulfide (as S)		X												
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)		X												
n. Surfactants		X												
o. Aluminum, Total (7429-90-5)		X												
p. Barium, Total (7440-39-3)		X												
q. Boron, Total (7440-42-8)		X												
r. Cobalt, Total (7440-48-4)		X												
s. Iron, Total (7439-89-6)		X												
t. Magnesium, Total (7439-95-4)		X												
u. Molybdenum, Total (7439-98-7)		X												
v. Manganese, Total (7439-96-5)		X												
w. Tin, Total (7440-31-5)		X												
x. Titanium, Total (7440-32-6)		X												

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
WA-003086-4	1-Dry Dock #9

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharged in concentrations of 100 ppb or greater. If you mark column 2c for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharged in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			b. NO. OF ANALYSES
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)		b. MAXIMUM 30 DAY VALUE (if available) (1)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		
				CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(1)				CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X												
2M. Arsenic, Total (7440-38-2)			X												
3M. Beryllium, Total (7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)			X												
5M. Chromium, Total (7440-47-3)			X												
6M. Copper, Total (7440-50-8)	X	X		122 ug/L		ug									
7M. Lead, Total (7439-92-1)	X	X		<1 ug/L		ug									
8M. Mercury, Total (7439-97-6)															
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc, Total (7440-66-6)	X	X		49.8 ug/L		ug									
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

DESCRIBE RESULTS

EPA Form 3510-2C (8-90)

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CONTINUE ON REVERSE



CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCEN- TRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
					(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
GC/MS FRACTION - VOLATILE COMPOUNDS													
1V. Acrolein (107-02-8)			X										
2V. Acrylonitrile (107-13-1)			X										
3V. Benzene (71-43-2)			X										
4V. Bis (Chloro- methyl) Ether (542-88-1)			X										
5V. Bromoform (75-25-2)			X										
6V. Carbon Tetrachloride (56-23-5)			X										
7V. Chlorobenzene (108-90-7)			X										
8V. Chlorodi- bromomethane (124-48-1)			X										
9V. Chloroethane (75-00-3)			X										
10V. 2-Chloro- ethylvinyl Ether (110-75-8)			X										
11V. Chloroform (67-66-3)			X										
12V. Dichloro- bromomethane (75-27-4)			X										
13V. Dichloro- difluoromethane (75-71-8)			X										
14V. 1,1-Dichloro- ethane (75-34-3)			X										
15V. 1,2-Dichloro- ethane (107-06-2)			X										
16V. 1,1-Dichloro- ethylene (75-35-4)			X										
17V. 1,2-Dichloro- propane (78-87-5)			X										
18V. 1,3-Dichloro- propylene (542-75-6)			X										
19V. Ethylbenzene (100-41-4)			X										
20V. Methyl Bromide (74-83-9)			X										
21V. Methyl Chloride (74-87-3)			X										

CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (if available)		2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
				(1)	(2) MASS CONCENTRATION	(1)	(2) MASS CONCENTRATION					
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)												
22V. Methylene Chloride (75-09-2)			X									
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X									
24V. Tetrachloroethylene (127-18-4)			X									
25V. Toluene (108-88-3)			X									
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X									
27V. 1,1,1-Trichloroethane (71-55-6)			X									
28V. 1,1,2-Trichloroethane (79-00-5)			X									
29V. Trichloroethylene (79-01-6)			X									
30V. Trichlorofluoromethane (75-69-4)			X									
31V. Vinyl Chloride (75-01-4)			X									
GC/MS FRACTION – ACID COMPOUNDS												
1A. 2-Chlorophenol (95-57-8)			X									
2A. 2,4-Dichlorophenol (120-83-2)			X									
3A. 2,4-Dimethylphenol (105-67-9)			X									
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X									
5A. 2,4-Dinitrophenol (51-28-5)			X									
6A. 2-Nitrophenol (88-75-5)			X									
7A. 4-Nitrophenol (100-02-7)			X									
8A. P-Chloro-M-Cresol (59-50-7)			X									
9A. Pentachlorophenol (87-86-5)			X									
10A. Phenol (108-95-2)			X									
11A. 2,4,6-Trichlorophenol (88-05-2)			X									

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CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)				
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES	
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS																
1B. Acenaphthene (83-32-9)			X													
2B. Acenaphthylene (208-96-8)			X													
3B. Anthracene (120-12-7)			X													
4B. Benzidine (92-87-5)			X													
5B. Benzo (a) Anthracene (56-55-3)			X													
6B. Benzo (a) Pyrene (50-32-8)			X													
7B. 3,4-Benzo-fluoranthene (205-99-2)			X													
8B. Benzo (ghi) Perylene (191-24-2)			X													
9B. Benzo (k) Fluoranthene (207-08-9)			X													
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X													
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X													
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X													
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X													
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X													
15B. Butyl Benzyl Phthalate (85-68-7)			X													
16B. 2-Chloronaphthalene (91-58-7)			X													
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X													
18B. Chrysene (218-01-9)			X													
19B. Dibenzo (a,h) Anthracene (53-70-3)			X													
20B. 1,2-Dichlorobenzene (95-50-1)			X													
21B. 1,3-Dichlorobenzene (541-73-1)			X													

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CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	
					(1)	(2) MASS	(1)	(2) MASS				(1)
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)												
22B. 1,4-Dichloro-benzene (106-46-7)			X									
23B. 3,3-Dichloro-benzidine (91-94-1)			X									
24B. Diethyl Phthalate (84-86-2)			X									
25B. Dimethyl Phthalate (131-11-3)			X									
26B. Di-N-Butyl Phthalate (84-74-2)			X									
27B. 2,4-Dinitro-toluene (121-14-2)			X									
28B. 2,6-Dinitro-toluene (606-20-2)			X									
29B. Di-N-Octyl Phthalate (117-84-0)			X									
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X									
31B. Fluoranthene (206-44-0)			X									
32B. Fluorene (86-73-7)			X									
33B. Hexachlorobenzene (118-74-1)			X									
34B. Hexachlorobutadiene (87-68-3)			X									
35B. Hexachlorocyclopentadiene (77-47-4)			X									
36B. Hexachloroethane (67-72-1)			X									
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X									
38B. Isophorone (78-59-1)			X									
39B. Naphthalene (91-20-3)			X									
40B. Nitrobenzene (98-95-3)			X									
41B. N-Nitrosodimethylamine (62-75-9)			X									
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X									

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CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
					(1)	(2)						
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)												
43B. N-Nitro-sodiphenylamine (86-30-6)			X									
44B. Phenanthrene (85-01-8)			X									
45B. Pyrene (129-00-0)			X									
46B. 1,2,4-Tri-chlorobenzene (120-82-1)			X									
GC/MS FRACTION - PESTICIDES												
1P. Aldrin (309-00-2)			X									
2P. α-BHC (319-84-6)			X									
3P. β-BHC (319-85-7)			X									
4P. γ-BHC (58-89-9)			X									
5P. δ-BHC (319-86-8)			X									
6P. Chlordane (57-74-9)			X									
7P. 4,4'-DDT (50-29-3)			X									
8P. 4,4'-DDE (72-55-9)			X									
9P. 4,4'-DDD (72-54-8)			X									
10P. Dieldrin (60-57-1)			X									
11P. α-Endosulfan (115-29-7)			X									
12P. β-Endosulfan (115-29-7)			X									
13P. Endosulfan Sulfate (1031-07-8)			X									
14P. Endrin (72-20-8)			X									
15P. Endrin Aldehyde (7421-93-4)			X									
16P. Heptachlor (76-44-8)			X									

EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
WA-003086-4	1-Dry Dock #9

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)		b. NO. OF ANALYSES
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE			
						(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS		
													(1) CONCENTRATION	
GC/MS FRACTION – PESTICIDES (continued)														
17P. Heptachlor Epoxide (1024-57-3)			×											
18P. PCB-1242 (53469-21-9)			×											
19P. PCB-1254 (11097-69-1)			×											
20P. PCB-1221 (11104-28-2)			×											
21P. PCB-1232 (11141-16-5)			×											
22P. PCB-1248 (12672-29-6)			×											
23P. PCB-1260 (11096-82-5)			×											
24P. PCB-1016 (12674-11-2)			×											
25P. Toxaphene (8001-35-2)			×											

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PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) instead of completing these pages.  
SEE INSTRUCTIONS.

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
WA-003086-4

V. INTAKE AND EFFLUENT CHARACTERISTICS (continued from page 3 of Form 2-C)

OUTFALL NO.  
2 Dry Dock #2

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT				3. UNITS (specify if blank)			4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE (1)		b. MAXIMUM 30 DAY VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Biochemical Oxygen Demand (BOD)										
b. Chemical Oxygen Demand (COD)										
c. Total Organic Carbon (TOC)										
d. Total Suspended Solids (TSS)										
e. Ammonia (as N)										
f. Flow	VALUE		VALUE					VALUE		
g. Temperature (winter)	VALUE		VALUE				°C	VALUE		
h. Temperature (summer)	VALUE		VALUE				°C	VALUE		
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM			STANDARD UNITS			

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. <i>(if available)</i>	2. MARK "X"		3. EFFLUENT						4. UNITS		5. INTAKE <i>(optional)</i>			
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE <i>(if available)</i>		c. LONG TERM AVRG. VALUE <i>(if available)</i>		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
a. Bromide (24959-67-9)		X												
b. Chlorine, Total Residual		X												
c. Color		X												
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)		X												
f. Nitrate-Nitrite (as N)		X												

## ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK "X"		3. EFFLUENT				4. UNITS		5. INTAKE (optional)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION
g. Nitrogen, Total Organic (as N)		X									
h. Oil and Grease	X		< 3 mg/L	mg							
i. Phosphorus (as P), Total (7723-14-0)		X									
j. Radioactivity											
(1) Alpha, Total		X									
(2) Beta, Total		X									
(3) Radium, Total		X									
(4) Radium 226, Total		X									
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)		X									
l. Sulfide (as S)		X									
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)		X									
n. Surfactants		X									
o. Aluminum, Total (7429-90-5)		X									
p. Barium, Total (7440-39-3)		X									
q. Boron, Total (7440-42-8)		X									
r. Cobalt, Total (7440-48-4)		X									
s. Iron, Total (7439-89-6)		X									
t. Magnesium, Total (7439-95-4)		X									
u. Molybdenum, Total (7439-98-7)		X									
v. Manganese, Total (7439-96-5)		X									
w. Tin, Total (7440-31-5)		X									
x. Titanium, Total (7440-32-6)		X									

EPA I.D. NUMBER (copy from Item 1 of Form 1)  
WA-003086-4

OUTFALL NUMBER  
2-Dry Dock #2

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharged in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)		b. MAXIMUM 30 DAY VALUE (if available) (1)		c. LONG TERM AVRG. VALUE (if available) (1)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)		b. NO. OF ANALYSES
				CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS	CONCENTRATION	(2) MASS				CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)			X												
2M. Arsenic, Total (7440-38-2)			X												
3M. Beryllium, Total (7440-41-7)			X												
4M. Cadmium, Total (7440-43-9)			X												
5M. Chromium, Total (7440-47-3)			X												
6M. Copper, Total (7440-50-8)	X	X			8.1 ug/L	ug									
7M. Lead, Total (7439-92-1)	X	X			<1 ug/L	ug									
8M. Mercury, Total (7439-97-6)															
9M. Nickel, Total (7440-02-0)			X												
10M. Selenium, Total (7782-49-2)			X												
11M. Silver, Total (7440-22-4)			X												
12M. Thallium, Total (7440-28-0)			X												
13M. Zinc, Total (7440-66-6)	X	X			7.59 ug/L	ug									
14M. Cyanide, Total (57-12-5)			X												
15M. Phenols, Total			X												
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X												
DESCRIBE RESULTS															



CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)					
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES		
					(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION	(2) MASS		(1) CONCENTRATION	(2) MASS
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon Tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl Ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichlorobromomethane (75-27-4)			X												
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl Bromide (74-83-9)			X												
21V. Methyl Chloride (74-87-3)			X												

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT					4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
					(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS					
GC/MS FRACTION – VOLATILE COMPOUNDS (continued)													
22V. Methylene Chloride (75-09-2)			X										
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X										
24V. Tetrachloroethylene (127-18-4)			X										
25V. Toluene (108-88-3)			X										
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X										
27V. 1,1,1-Trichloroethane (71-55-6)			X										
28V. 1,1,2-Trichloroethane (79-00-5)			X										
29V. Trichloroethylene (79-01-6)			X										
30V. Trichlorofluoromethane (75-69-4)			X										
31V. Vinyl Chloride (75-01-4)			X										
GC/MS FRACTION – ACID COMPOUNDS													
1A. 2-Chlorophenol (95-57-8)			X										
2A. 2,4-Dichlorophenol (120-83-2)			X										
3A. 2,4-Dimethylphenol (105-67-9)			X										
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X										
5A. 2,4-Dinitrophenol (51-28-5)			X										
6A. 2-Nitrophenol (88-75-5)			X										
7A. 4-Nitrophenol (100-02-7)			X										
8A. P-Chloro-M-Cresol (59-50-7)			X										
9A. Pentachlorophenol (87-86-5)			X										
10A. Phenol (108-95-2)			X										
11A. 2,4,6-Trichlorophenol (88-05-2)			X										

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CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1)	b. NO. OF ANALYSES
					CONCENTRATION	(2) MASS	CONCENTRATION	(1)					
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS													
1B. Acenaphthene (83-32-9)			X										
2B. Acenaphthylene (208-96-8)			X										
3B. Anthracene (120-12-7)			X										
4B. Benzidine (92-87-5)			X										
5B. Benzo (a) Anthracene (56-55-3)			X										
6B. Benzo (a) Pyrene (50-32-8)			X										
7B. 3,4-Benzo-fluoranthene (205-99-2)			X										
8B. Benzo (ghi) Perylene (191-24-2)			X										
9B. Benzo (k) Fluoranthene (207-08-9)			X										
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)			X										
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)			X										
12B. Bis (2-Chloroisopropyl) Ether (102-80-1)			X										
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X										
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X										
15B. Butyl Benzyl Phthalate (85-68-7)			X										
16B. 2-Chloronaphthalene (91-58-7)			X										
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X										
18B. Chrysene (218-01-9)			X										
19B. Dibenzo (a,h) Anthracene (53-70-3)			X										
20B. 1,2-Dichlorobenzene (95-50-1)			X										
21B. 1,3-Dichlorobenzene (541-73-1)			X										

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CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS			5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1)	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
					(1)	(2) MASS CONCENTRATION					(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)													
22B. 1,4-Dichlorobenzene (106-46-7)			X										
23B. 3,3-Dichlorobenzidine (91-94-1)			X										
24B. Diethyl Phthalate (84-66-2)			X										
25B. Dimethyl Phthalate (131-11-3)			X										
26B. Di-N-Butyl Phthalate (84-74-2)			X										
27B. 2,4-Dinitrotoluene (121-14-2)			X										
28B. 2,6-Dinitrotoluene (606-20-2)			X										
29B. Di-N-Octyl Phthalate (117-84-0)			X										
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X										
31B. Fluoranthene (206-44-0)			X										
32B. Fluorene (86-73-7)			X										
33B. Hexachlorobenzene (118-74-1)			X										
34B. Hexachlorobutadiene (87-68-3)			X										
35B. Hexachlorocyclopentadiene (77-47-4)			X										
36B. Hexachloroethane (67-72-1)			X										
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X										
38B. Isophorone (78-59-1)			X										
39B. Naphthalene (91-20-3)			X										
40B. Nitrobenzene (98-95-3)			X										
41B. N-Nitrosodimethylamine (62-75-9)			X										
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X										

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CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT				4. UNITS		5. INTAKE (optional)			
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
					(1) CONCENTRATION	(2) MASS					(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (continued)													
43B. N-Nitrosodiphenylamine (86-30-6)			X										
44B. Phenanthrene (85-01-8)			X										
45B. Pyrene (129-00-0)			X										
46B. 1,2,4-Trichlorobenzene (120-82-1)			X										
GC/MS FRACTION – PESTICIDES													
1P. Aldrin (309-00-2)			X										
2P. α-BHC (319-84-6)			X										
3P. β-BHC (319-85-7)			X										
4P. γ-BHC (58-89-9)			X										
5P. δ-BHC (319-86-8)			X										
6P. Chlordane (57-74-9)			X										
7P. 4,4'-DDT (50-29-3)			X										
8P. 4,4'-DDE (72-55-9)			X										
9P. 4,4'-DDD (72-54-8)			X										
10P. Dieldrin (60-57-1)			X										
11P. α-Endosulfan (115-29-7)			X										
12P. β-Endosulfan (115-29-7)			X										
13P. Endosulfan Sulfate (1031-07-8)			X										
14P. Endrin (72-20-8)			X										
15P. Endrin Aldehyde (7421-93-4)			X										
16P. Heptachlor (76-44-8)			X										



EPA I.D. NUMBER (copy from Item 1 of Form 1)	OUTFALL NUMBER
WA-003086-4	2-Dry Dock #2

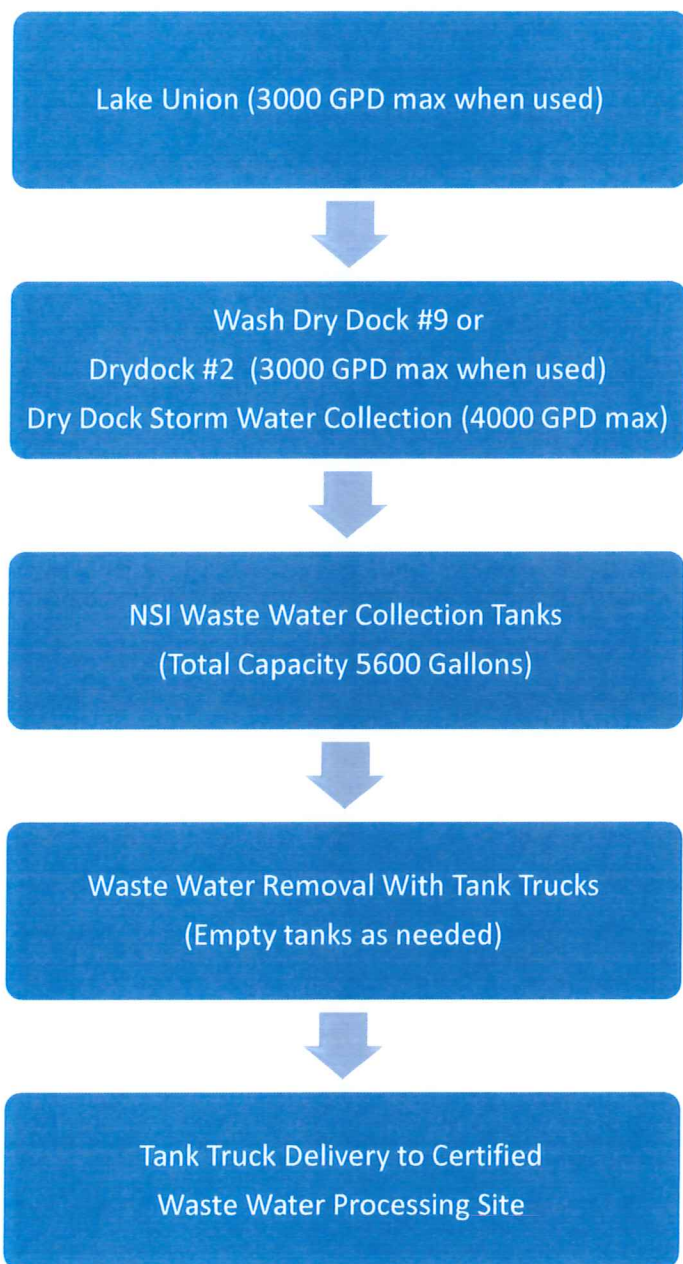
CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X"			3. EFFLUENT						4. UNITS		5. INTAKE (optional)		b. NO. OF ANALYSES	
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION		(2) MASS
GC/MS FRACTION – PESTICIDES (continued)															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

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## Schematic of Water Flow Northlake Shipyard Inc.



### Notes:

1. Average of one drydock wash per week (3000 Gallons).
2. Average weekly rain collection of NSI Drydocks (7200 Gallons).
3. Drydocks will not be washed during times of seasonal heavy rains if collection tank capacity would be exceeded.



1441 North Northlake Way, Seattle, WA 98103-8920  
Telephone (206) 632-1441 • Facsimile (206) 632-8628

**Statement Describing Current Water Control Programs required by EPA Form 2C, Section IV.B**

Northlake Shipyard Inc. implemented both a ***Spill Control Plan*** and a ***Storm Water Pollution Prevention Plan*** on July 14, 2016 as part of the company continuing efforts to minimize and mitigate the risks of pollutant discharges into surface waters from the facility by identifying potential spill sources, implementing best management practices, complying with NPDES requirements and raising awareness through the training of employees, customers and vendors. A copy of these plans are provided in this application.

**NPDES PERMIT APPLICATION QUESTIONNAIRE**  
**SUPPLEMENTING FORM 2C**  
For Shipbuilding and Repair Facilities

**I. GENERAL INFORMATION**

- a. Name of Facility: *Northlake Shipyard Inc.*
- b. Address: *1441 N Northlake Way*
- c. City, State Zip: *Seattle, WA 98103*
- d. Phone: *206-632-1441*
- e. Waterway: *Lake Washington Ship Canal-Lake Union*

**II. SERVICES PROVIDED IN A TYPICAL YEAR**

- a. Do you predominantly provide new construction? *NO.* And/or repair? *YES.*
- b. What types of vessels (i.e. tugs, fishing vessels, barges, factory ships, etc.) do you provide services to? *NSI provides drydock, crane and moorage services to fishing vessels, tugs, barges, factory ships and yachts.*
- c. What hull materials do you work on? *Wood, steel and aluminum.*
- d. Estimate total number of vessels worked on in a typical year? *Fifty-five (55)*
- e. Does the facility have?

- i. Drydock *YES*
- ii. Graving Dock *NO*
- iii. Marine way *NO*
- iv. Lift *NO*
- v. Travel haul *NO*
- vi. Crane *YES*

*— one active .*

**III. YARD CAPACITY**

- a. Capacity of the drydock marine way, crane, etc., which remove vessels from the water for access to the hull?

Code:	<i>Dry Dock #2</i>	<i>Dry Dock #9</i>
Tonnage:	<i>1000 dwt</i>	<i>1900 dwt</i>
Overall Length	<i>200 ft.</i>	<i>288 ft.</i>
Wing wall Length	<i>175 ft.</i>	<i>258 ft.</i>
Width	<i>60 ft.</i>	<i>60 ft.</i>
Wing wall Height:	<i>22 ft.</i>	<i>25 ft.</i>

*x 2 piers*  
*1 float (extension of east pier)*

- b. Describe the location and construction of the drydock, marine way, crane etc. (Attach a site plan). *NSI has two floating drydocks moored to the West Pier of the facility. The drydocks are of steel construction and are operated by a series of electric driven centrifugal pumps and manually operated valves.*

#### IV. HYDROBLASTING, SANDBLASTING PRACTICES

- a. Of the hulls your yard worked on in the last year, what percentage:
  - i. Needed the complete hull sandblasted and repainted? (0%)
  - ii. Needed half the hull sandblasted and repainted? (8%)
  - iii. Needed less than ¼ of the hull sandblasted and repainted? (0%)
  - iv. What percentage of the hulls only needed a high pressure wash? (0%)
  - v. What percentage of the hulls only needed a low pressure wash? (75%)
  - vi. How much of the paint removal consists of sanding and scraping? (10%)
- b. For the sandblasting done in a typical year (the last year if that answer is easier to obtain), how many tons of abrasive material are used? *NSI does not perform vessel sandblasting services. It is estimated that the subcontracted sandblasting vendors used approximately 36 tons of sandblast materials in 2017 for four vessels.*
- c. If possible, estimate the percent of sandblast grit used on drydocks:
  - i. In ship holds: (0%)
  - ii. On ship superstructures: (0%)
- d. Estimate the percent of grit used in a sandblast shed? (0%)
- e. How do you store sandblast grit? *Sandblast grit is temporarily stored in the yard for up to two weeks after job completion. This is a courtesy to vendors while they await grit chemical testing results and permitting for truck transfer to a certified disposal site.*
- f. How often and where is the spent sandblast grit disposed of? *Unknown.*
- g. Where do you do hydroblasting (high pressure wash of hulls)? *When performed, hydroblasting operations occur within the confines of the floating drydocks.*
- h. How far is the hydroblasting are from the nearest waterbody? *When performed, hydroblasting operations occur over water and within the confines of the floating drydocks.*
- i. How and where do you discharge your hydroblasting water? *When performed, hydroblasting wash water is contained on the drydock, pumped to onsite waste water collection tanks and then further truck transferred to a certified waste water collection site.*
- j. Do you use an acid solution when hydroblasting? *NO.*
- k. Do you pretreat (i.e. filter, settle, centrifuge, etc.) the hydroblasting wash water? *NO.*

#### V. PAINTING PRACTICES

- a. What anticorrosive paints are commonly used at your yard? *International 300V, PPG 235, Sherman Williams 6000.*
- b. What antifouling paints are commonly used at your yard? *International 640, PPG ABC3, PPG 314.*
- c. Describe the location and construction of the paint storage building or area. *Subcontracted painting vendors do not warehouse paint at NSI. Paint is received at NSI by painting vendors immediately preceding application. A 12'x12' storage shed of cinder block construction is made available to painting vendors for their temporary storage of waste paint that is awaiting disposal.*



- d. Describe the location and construction of the painting booth. Is the floor paved? Are there drains in the painting booth? If yes, where do they drain? *NSI does not have a paint booth.*
- e. Where is paint mixed? *Subcontracted painting vendors mix paint in paint containments on the drydocks immediately prior to use. Drydocks are also constructed with a containment system to prevent spills of paint, waste water and other hazardous materials from entering the water.*
- f. Do you use drip pans or visquine to contain paint spills? *Subcontracted painting vendors store paint in paint containments on the drydocks. Drydocks are also constructed with a containment system to prevent spills of paint, waste water and other hazardous materials from entering the water.*
- g. Do you or vessel owners/operators do touch up painting or detail painting on vessels from floats? *YES*
- h. Do you have a still for recycling paint thinners? *NO*
- i. What are your procedures for minimizing waste paint disposal? *NSI does not generate waste paint.*
- j. What waste disposal company disposes of your still bottoms and waste paint? *Not applicable.*
- k. How often do you dispose of waste paint and still bottoms? *Not applicable.*
- l. Where and how is waste paint stored prior to disposal? *Not applicable for NSI. A 12'x12' storage shed of cinder block construction is made available to painting vendors for their temporary storage of waste paint that is awaiting disposal.*

## **VI. ENGINE AND EQUIPMENT REPAIR SERVICES**

- a. What is the estimated number of engine repairs made annually? *Unknown.*
- b. Describe the facility for the storage of waste oil? *NSI does not perform engine repairs on vessels and waste oil is not stored onsite. Vessel operators/owners retain waste oil onboard their own vessels or contract with a certified processing company to remove it from the vessel.*
- c. How often is waste oil disposed of? *UNKNOWN.*
- d. Is it recycled and, if so, by whom? *It is unknown if vessel owners/operators recycle their oil. A regular area vendor for picking up vessel waste oil is Covich-Williams.*
- e. Do you drain engine filters before disposing of the filter? *Unknown. NSI does not perform this type of work in the yard.*
- f. Do you have steam cleaning facilities at your yard? *NO. NSI does not perform this type of work in the yard.*
- g. Do you use dip tanks for cleaning machine parts? *NO. NSI does not perform this type of work in the yard.*
  - i. What type of degreasers do you use? *NONE. NSI does not perform this type of work in the yard.*
  - ii. What type of recycle/disposal service do you use for solvents and degreasers? *NONE. NSI does not perform this type of work in the yard. Operators/owners*

*are responsible to retain this type of waste onboard their vessels or arrange to have it picked up by an authorized recycle/disposal vender.*

- h. How do you store and dispose of used hydraulic fluids? NSI does not have hydraulic driven machinery in the yard. Vessel operators/owners are responsible to retain this type of waste onboard their vessels or arrange to have it picked up by an authorized recycle/disposal vender.*
- i. How do you dispose of used antifreeze and coolants? NSI does not have machinery in the yard that uses antifreeze or coolants. Vessel operators/owners are responsible to retain this type of waste onboard their vessels or arrange to have it picked up by an authorized recycle/disposal vender.*
- j. What type of storage do you have for batteries? NSI does not store batteries in the yard. Vessel operators/owners are responsible to retain this type of waste onboard their vessels or arrange to have it picked up by an authorized recycle/disposal vender.*
- k. How often do you dispose of used batteries? NSI does not store batteries in the yard. Vessel operators/owners are responsible to retain this type of waste onboard their vessels or arrange to have it picked up by an authorized recycle/disposal vender.*

## **VII. WASTE DISPOSAL SERVICES**

- a. Do the services provided by your yard include?*
  - i. Pumping bilge water? NO.*
  - ii. If so, how frequently? Not applicable.*
  - iii. Pumping Ballast water? NO.*
  - iv. If so, how frequently? Not applicable.*
  - v. If so, how is bilge water or ballast water disposed of? Vessel operators/owners are responsible to retain this type of waste onboard their vessels or arrange to have it picked up by an authorized recycle/disposal vender. Commonly used and certified venders for bilge water and ballast water include Sound Marine and MARVAC.*
  - vi. What facilities do you have for receiving sanitary wastes and gray water from docked vessels? NSI does not have facilities to receive sanitary waste or gray water. Vessel operators/owners are responsible to retain this type of waste onboard their vessels or arrange to have it picked up by an authorized recycle/disposal vender.*

## **VIII. OTHER WASTE DISPOSAL OR RECYCLING**

- a. Who, how and where, if you know, are the following solid wastes disposed of?*
  - i. Sandblast grit. UNKNOWN.*
  - ii. Scrap metal. NSI collects scrap metal in an onsite dumpster that is removed and processed by Seattle Iron and Metals.*
  - iii. Glass. NSI collects scrap glass in an onsite dumpster that is removed and processed by Waste Management.*

#### IX. OTHER SERVICES

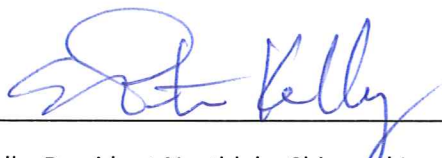
- a. Do you supply cooling water to moored or drydocked vessels? *NO.*
- b. If so, how often? *Not applicable.*

#### X. MANAGEMENT SERVICES

- a. Do you have a maintenance plan for preventing accidental loss of oil, fuel, paint etc. due to equipment failures? *NSI complies with and provides vessel owner/operators with a copy of its Best Management Practices to prevent accidental discharges and spills.*
- b. Does the plan specifically identify who is responsible for what tasks and how often? *YES.*
- c. Does the maintenance plan include routine cleaning, sweeping and vacuuming of docks, paved work areas and catch basins? *YES.*
- d. Please provide a copy with the return of the permit application. *PROVIDED.*
- e. Do you provide guidance to arriving vessels on pollution practices you expect them to comply with? *NSI provides vessel owner/operators with a copy of its Best Management Practices to prevent accidental discharges and spills.*
- f. If so please provide a copy with the return of the application. *PROVIDED.*
- g. Do you have an employee training program which includes pollution prevention practices and worker right—to-know information? *YES.*
- h. Do you have in effect a Spill Prevention and Counter-Measure Plan? *YES.*
- i. If so, please provide a copy. *PROVIDED.*

#### XI. SITE PLAN.

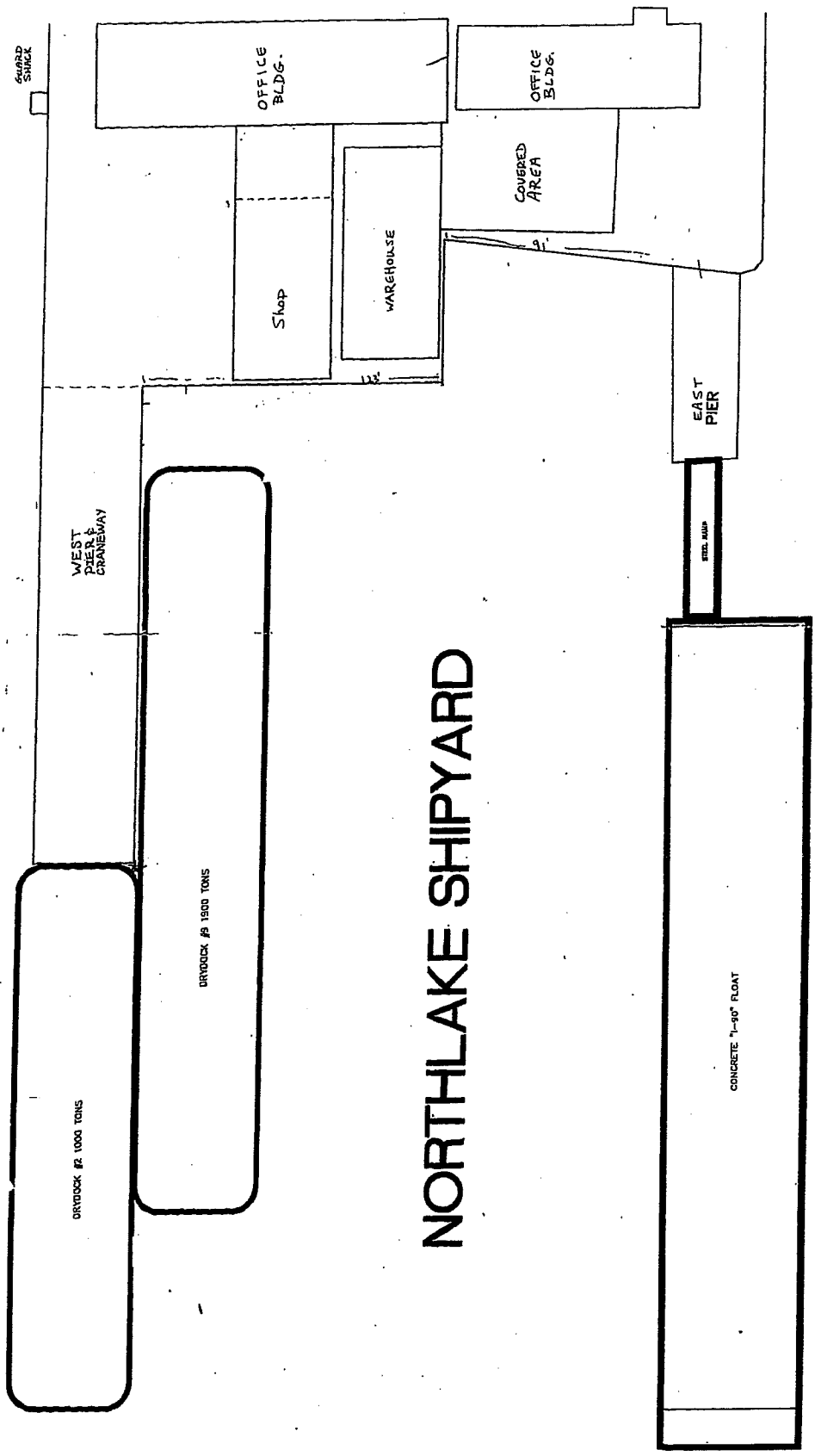
- a. Please provide a Site Plan locating storm drains, catch basins, oil and waste storage areas, paint storage area, paint booth, solvent still, work areas, etc. *PROVIDED.*
- b. Please provide a location map of the facility. It is sufficient to indicate the site location on a photocopy of a USGS quadrangle map. *PROVIDED.*



E. Peter Kelly, President Northlake Shipyard Inc.

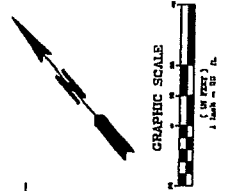
*12 April 2018*

Date



# NORTHLAKE SHIPYARD

1441 NORTH NORTHLAKE WAY, SEATTLE, WA 98103



**BEST MANAGEMENT PRACTICES FOR NORTHLAKE SHIPYARD****A. Control of Large Solid Materials**

Floatable and low-density waste, such as wood, plastic, and miscellaneous trash, such as paper, insulation and packaging shall be removed from drydock floors prior to flooding.

**B. Control and Clean-up of Paint Dust and Abrasive Blasting Debris**

Dust and overspray shall be confined to the shipyard repair and construction areas to the maximum extent possible during abrasive blasting and spray painting of vessels and modules. Methods of control include conducting the work in a sandblast/ spray paint shed, or installing plastic barriers around the vessel. The Permittee shall ensure the plastic barriers hung from the vessel, or temporary structures around the vessel, be secured to prevent the fugitive emissions of abrasive grit and dust, as well as effectively capture overspray from spray painting activities. The bottom edge tarpaulins and plastic sheeting shall be weighted or fastened to remain in place during windy conditions.

Consideration shall also be given to other feasible innovative procedures as appropriate to improve the effectiveness of controlling dust emissions and paint overspray. Such innovative methods may include wet abrasive blasting (slurry blasting); product substitution for blasting media, for example, sodium bicarbonate or overall waste minimization; and recycling, for example the use of vacuum return sandblasting heads of steel shot blast technology.

Welding and metal fabrication activities shall be conducted under cover in a confined area, to the extent possible. Fine debris generated from welding and metal fabrication shall be confined and disposed of properly.

Cleanup of spent paint, paint chips, protective coating materials, and abrasive grit shall be undertaken as part of the repair or production activities, to prevent their entry into state waters. Air pressure shall not be used as a cleanup method on the drydocks. If water is used to rinse the drydock prior to launching, the Permittee shall collect the rinse water and dispose of it properly. Discharge of rinse water to waters of the state is prohibited.

Vessels shall be set on the drydock ways to afford accessibility to the floor of the drydock beneath the vessel for collection of spent abrasive. The drydock shall be cleaned of spent sandblast grit and debris prior to launching a vessel. Cleaning may be accomplished by



either manual or mechanical means. Mechanical cleanup may be accomplished by mechanical sweepers, front-end loaders, vacuum cleaners or other innovative equipment. Cleaning may be done by either manual or mechanical sweeping with vacuuming to remove fine grit and debris into the receiving water.

The flooding and sinking of drydocks with standing piles of spent abrasive on the drydock is prohibited.

Photographs shall be taken and maintained in a logbook to demonstrate the condition of the drydock floor prior to launching every vessel. Documentation accompanying the photographs shall include the name of the vessel, the drydock number, the date the vessel was launched, date of the photograph being taken and the name of the photographer. A videotape/ DVD that documents the same information may be used in place of a photograph collection.

The yard shall be cleaned on regular basis to minimize the possibility that storm water runoff will carry sandblasting grit or other debris into the receiving water.

**Collected sandblasting debris shall be stored under cover in a designated area with the spent abrasive grit.** Innovations and procedures which improve the effectiveness of cleanup operations shall be adopted where they are feasible, appropriate and can be demonstrated as preventing the discharge of solids to water.

C. In-Water Vessel Maintenance – Surface Preparation BMPs

The cleaning of any portion of a vessel's hull below the waterline while the vessel is afloat is **prohibited**.

The following types of surface preparation activities are allowed to be conducted on a vessel's hull above the waterline while it is at a permitted shipyard facility. These activities are only allowed provided that containment and collection BMP measures are in effect to prevent the introduction of dust, dirt, debris, flakes, chips, drips, oil or any other pollutants generated from these surface preparation operations from being deposited on or entering into waters of the state. Containment such as tarpaulins, drapes, shrouding or other protective devices shall be securely fastened between various portions of the vessels or between the vessel and the drydock, bulkhead or shoreline to collect all such materials. The cleanup of all collected materials shall be conducted daily to prevent their release into the environment and entry into waters of the state.

- Mechanical hand preparation, such as scraping or while wire brushing.
- Conventional mechanical grinding or use of other powered mechanical abrading tools.
- Innovative abrasive blasting systems or ultra-high pressure systems for surface preparation will only be allowed to be conducted on a vessel's hull while it is in the water, provided that it has been demonstrated beforehand to Department of

Ecology's satisfaction and approval that such methods do not release generated pollutants into waters of the state.

#### In-Water Vessel Maintenance – Paint and Coating Application BMPs:

The following methods of paint and coating applications to a vessel's hull while in the water at an NPDES permitted shipyard are allowed provided, that all containment, collection and spill prevention BMPs are in place before any such applications are made to a vessel's hull:

- Application by roller
- Application by brush.
- Innovative spray-paint or spray-coating application methods will be allowed to be conducted on a vessel's hull while it is in the water provided that it has been demonstrated beforehand to Department of Ecology's satisfaction that such methods do not release generated pollutants into the waters of the state.

#### BMPs for Floats Used for In-Water Vessel Maintenance:

Floats are defined as free-floating, unattached work platforms capable of moving back and forth along the length of the ship and around its hull.

Floats shall at all times maintain a minimum of 1" of freeboard at the float's lowest point during all phases of maintenance operations. The minimum 1" freeboard requirement must be maintained with all scaffolding configurations and number of persons on board of boat. All necessary precautions will be taken by personnel on board the float to prevent paints, cleaning materials, petroleum products, all other liquids and unsecured materials from entering into the water from the float.

Any container of paint, marine coating or any other liquid product for painting or surface preparation of one gallon or greater must be provided with secondary containment when used on board a float. All roller pans used on a float must be provided with secondary spill containment. Secondary spill containment capacity is equal to the entire volume of the container plus 10 percent of the volume of that same container.

#### Documentation Requirements for In-Water Vessel Maintenance BMPs:

Documentation requirements will be in effect for any in-water surface preparation operations of one hour or more in duration and any in-water coating or painting operation involving ½ gallon or more of paint or marine coating.

Documentation requirements will consist at a minimum of one or more representative photographs of all in-water vessel maintenance BMPs which are implemented for surface preparation operations and all painting and coating operations. All such

photographs shall be dated and maintained in a logbook with all necessary descriptive narrative of the in-water vessel maintenance BMPs being documented. These records shall be made available to a Department of Ecology inspector upon request and will be retained on-site for at least three (3) years.

D. Oil, Grease, Paint, and Fuel Spills Prevention and Containment

No discharge of oil, other hazardous material, or paint to state waters is allowed, except as specifically authorized by this permit. Oil, grease, fuel, or paint spills shall be prevented from reaching drainage systems or surface waters. Cleanup shall be carried out promptly after an oil, grease, fuel, or paint spill is detected. Oil containment booms and absorbents shall be conveniently stored so as to be immediately deployable in the event of a spill. The Permittee shall develop a spill response team. All yard personnel that may participate in cleanup of spills shall be trained in the use and deployment of a cleanup equipment.

In the event of an accidental discharge of oil or hazardous material into the waters of the state or onto land with a potential for entry into state waters, the Department's Northwest Regional Office Spill Response Section and the United States Coast Guard shall be notified immediately.

1. Cleanup efforts shall commence immediately and be completed as soon as possible, taking precedence over normal work, and shall include proper disposal of spilled material and used cleanup material.
2. Cleanup of oil or hazardous material spills shall be in accordance with an approved spill control plan or according to specific instructions of an on-scene coordinator.
3. No emulsifiers or dispersants are to be used in or upon the waters of the state without prior approval from the Director of the Department of Ecology. Drip pans or other protective devices shall be required for all oil transfer operations to catch incidental spills and drips from hose nozzles, hose racks, drums or barrels. Oils and fuel storage tanks shall be provided with secondary containment.

E. Paint and Solvent use and Containment

The mixing of paints and solvents shall be carried out in locations and under conditions such that no spill shall enter state waters.

1. Drip pans or other protective devices shall be required for all painting mixing and solvent transfer operations, unless the mixing operation is carried out in covered and controlled areas away from storm drains, surface waters, shorelines and piers. Drip pans, drop cloths or tarpaulins shall be used wherever paints and solvents are mixed on wood docks. Paints and solvents shall not be mixed on floats.

2. Paint and solvent spills shall be treated as oil spills and shall be prevented from reaching storm drains and subsequent discharge into the water.

F. Contact between Water and Debris

Shipboard cooling and non-contact cooling water shall be directed as to minimize contact with spent abrasives, paint chips, and other debris. Contact between spent abrasives or paint chips and water will be reduced by proper segregation and control of wastewater streams. Appropriate methods shall be incorporated to prevent accumulation of debris in drainage systems and debris shall be promptly removed to prevent its discharge with storm water.

G. Maintenance of Hoses, Soil Chutes and Piping

Leaking connections, valves, pipes, hoses and soil chutes carrying either water or waste water shall be replaced or repaired immediately. Soil chute and hose connections to vessels and to receiving lines or containers shall be tightly connected and leak free. Containment devices such as drip pans shall be placed under soil chute and hose connections to prevent accidental drippage and releases.

H. Chemical Storage

Solid chemicals, chemical solutions, paints, oils, solvents, acids, caustic solutions and waste materials, including batteries shall be stored in a manner which will prevent the inadvertent entry of these materials into waters of the state, including ground water. Storage shall be in a manner that will prevent spills due to overfilling, tipping or rupture. In addition, the following practices shall be used:

1. All liquid products shall be stored on durable impervious surfaces and within bermed containment capable of containing 110 percent of the largest single container in the storage area.
2. Waste liquids shall be stored under cover, such as tarpaulins or roofed structures. All waste storage areas, whether for waste oil or hazardous waste, shall be clearly designated as such kept segregated from new products storage.
3. Incompatible or reactive materials shall be segregated and securely stored in separate containment areas that would prevent the inadvertent mixing and reactions of spilled chemicals.
4. Concentrated waste or spilled chemicals shall be transported off-site for disposal at a facility approved. These materials shall not be discharged to any sewer or state waters.

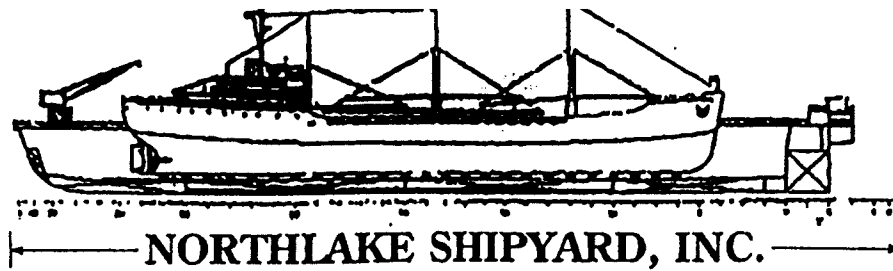
I. Recycling of Spilled Chemicals and Rinse Water

Any intercepted chemical spill shall be recycled back to the appropriate chemical solution tank or cleaned up and disposed properly. The spilled material must be handled, recycled, or disposed of in such a manner as to prevent its discharge into state waters.

J. Education of Employees, Contractors and Customers

The facility shall ensure that its employees, contractors and/or customers who conduct repair work at the shipyard are familiar with the requirements in this permit.

To facilitate the consistent and effective implementation of the BMPs described above, the Permittee shall develop a program for training its employees and all contractors who work at the facility, on BMPs and the environmental concerns related to this permit. This training program shall be developed thoroughly and be available to the inspectors for review during inspection. There are a variety of ways to accomplish this and the Permittee should determine the method that works best for the company. For example, regular safety meetings may be a convenient time to discuss BMP implementation successes or problems and get input on better ways of accomplishing pollution prevention. The Permittee may consider providing similar information to its customers.



1441 North Northlake Way, Seattle, WA 98103-8920  
 Telephone (206) 632-1441 • Facsimile (206) 632-8628

**RE: Shipyard Cleaning Assignments 2018**

1. Daily Tasks

- A. Clean Office Washrooms (4): Empty trash, clean sink & commode, mop/sweep floor, replenish toilet paper & hand towels.
- B. Clean 2<sup>nd</sup> Deck Shipyard Common Head: Empty trash, clean sink & commode, mop/sweep floor, replenish toilet paper & hand towels.
- C. Clean NSI Workers Break Room: Empty trash, mop/sweep floor, replenish toilet paper & hand towels.
- D. Clean West Pier and Drydock Wing Walls: Pick up trash & debris from pier and wing walls of Drydock 2 and 9.
- E. Clean I-90 Pier & Parking Lots: Pick up trash & debris from pier and parking lots.

- 2. NSI personnel will immediately report to the Operations Manager any hazardous material spills, abandoned or open hazardous material containers and safety violations.

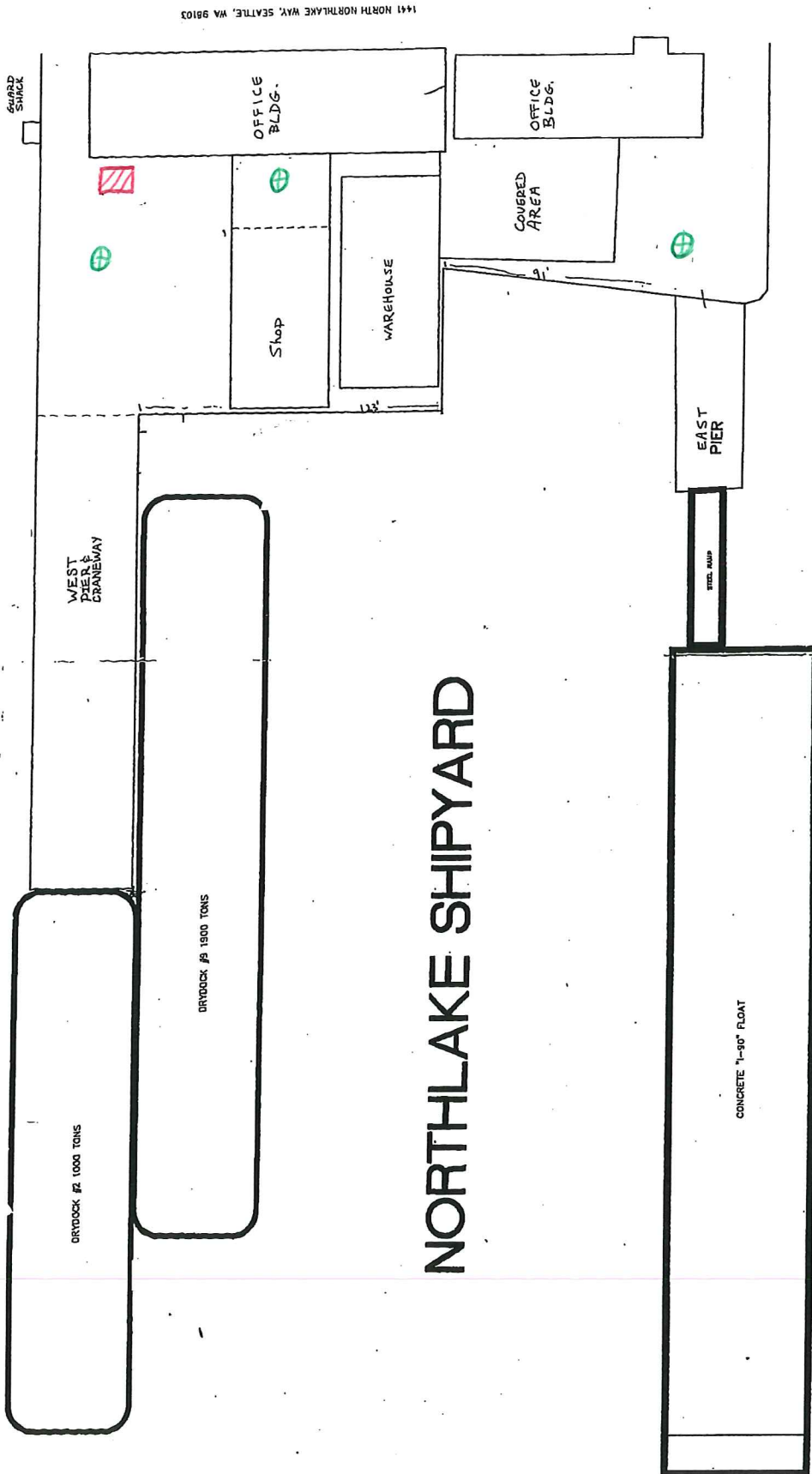
3. Cleaning assignments will rotate and repeat as follows:

Worker	Week 1 Task	Week 2 Task	Week 3 Task	Week 4 Task	Week 5 Task
Mike	A	B	C	D	E
Ivan	B	C	D	E	A
David	C	D	E	A	B
Jeff	D	E	A	B	C
Larkin	E	A	B	C	D

- 4. The reference start date for this schedule is 1 January 2018.



WATERWAY #21



# NORTHLAKE SHIPYARD

⊕ = STORM DRAIN TO SEWER

▨ = TEMPORARY WASTE PAINT STORAGE