

Washington State Ballast Water Program: **Proposed Vessel Risk/Selection Protocols**

Presentation to the
Pacific Ballast Work Group

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Washington State Mission

The Washington Department of Fish and Wildlife's Aquatic Invasive Species (AIS) Program serves Washington's citizens by protecting, restoring, and enhancing fish and wildlife and their habitats, while providing sustainable and wildlife-related recreational and commercial opportunities.

Vessel Arrival Risk Ranking Protocols

- **Priority classification system**
 - P1 = High risk
 - P2 = Moderate risk
 - P3 = Low risk
- **Proposed enhanced system**
 - Greater transparency/consistency
 - Assess all arrival risk
 - Improved objectivity
 - Prioritize data management

Vessel Arrival Risk Ranking Protocols

- **First Cut Prioritization**
 - All NONDISCHARGING vessels = P3 (except NC)
- **Second Cut Prioritization**
 - All high risk DISCHARGING vessels = P1
 - No BWMR filed
 - Vessel BWMR shows potential discharge of noncompliant BW
 - Safety Exemption claimed
 - Prior “High” Management Priority Level BWE sample results (based on Cordell et al. 2015)
 - Otherwise listed under WAC 220-650-050

Vessel Arrival Risk Ranking Protocols

- **Third Cut Prioritization**

- All remaining DISCHARGING vessels = P1 or P2
 - Determined using 10 factor ranking protocol
 - Each factor given risk ranking of 1 (low), 2 (mod), or 3 (high)
 - Cumulative score of 10-19 = P2 (moderate risk)
 - Cumulative score of 20-30 = P1 (high risk)
- Risk factors modified to meet existing resource limitations

Vessel Arrival Risk Ranking Protocols

Strategic Plan Risk Factor	Current	Proposed
A. Last inspection (WDFW/USCG)	M	M
B. Previous noncompliance	L	M
C. First-time arrival to state	M	M
D. Safety exemption claim	M	H+
E. Similar BW source environment	L	M
F. BW source NIS richness	L	M
G. At-risk discharge port	L	H
H. Intended discharge volume	H	H
I. Cumulative discharge volume	L	X
J. BW age	X	H
K. Management type	L	H
L. Planned USCG inspection	N/A	N/A

Compatibility
H = High
M = Moderate
L = Low
X = None

Vessel Arrival Risk Ranking Protocols

Table 1. Vessel arrival risk factors for determining 3RD cut P1 (High) or P2 (Moderate) classification.

Vessel Arrival Risk Factor	Risk level score = 1	Risk level score = 2	Risk level score = 3
A. Prior WDFW inspection	Inspected w/in last 1 year	Inspected w/in last 1-3 years	No inspection w/in last 3+ years
B. Previous noncompliance	None	WRN or NOC - Reporting; or WRN - Management	NOC - Management; or NOP (w/in last 5 years)
C. Noncompliant arrival	None	Reporting violation	Management violation
D. Previous Safety Exemption request	None	Single request w/in last 3 years	Multiple requests w/in last 3 years
E. BW source – environmental	All other ports	Common water port	California; Non-CW Oregon; Non-CW BC; Alaska; Mexico
F. BW Source - NIS richness	All other ports	California; Non-CW Oregon; Non-CW BC; Alaska; Mexico China; Japan; Taiwan; Korea; Russia	All San Francisco Ports; Low Salinity ports voyaging to Columbia River; MPL "2"
G. Discharge port	All other WA ports	Seattle; Vancouver; Anacortes	Kalama, Longview, Tacoma, Cherry Point/ Ferndale area
H. Intended discharge volume	< 1,000 m3	≥ 1,000 and < 10,000 m3	≥ 10,000 m3
I. Ballast water age	≥ 30 days	≥ 6 and < 30 days	< 6 days
J. BWM type	Common Water voyage discharge	BWMS	BWE/AMS

Vessel Arrival Risk Ranking Protocols

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WDFW DISCHARGING Vessel Arrival Risk Ranking Worksheet

Pleus v. 1/10/18

		Worksheet Date: EXAMPLE Vessels		Start Time: <u>0715</u>	End Time: <u>0930</u>	
Vessel BWMR Arrival Date >		14-Nov-17	14-Nov-17	14-Nov-17	14-Nov-17	14-Nov-17
Vessel Name >		APL New York	Pride	Overseas Los Angeles	African Finfoot	Densa Jaguar
Vessel Arrival Risk Factor						
Automatic P1 Factor				MPL-1		
A	Prior WDFW Inspection	3 (no)	1 (yes)		1 (yes)	1 (yes)
B	Previous Noncompliance	1 (no)	2 (WRN)		1 (no)	1 (no)
C	Noncompliant Arrival	1 (no)	1 (no)		1 (no)	1 (no)
D	Prev. Safety Exemp claim	1 (no)	1 (no)		1 (no)	1 (no)
E	BW source - environmental	1 (China)	2 (CW)		1 (Korea)	1 (Aus)
F	BW source - NIS richness	3 (MPL-M)	1 (CW)		2 (Korea)	1 (Aus)
G	Discharge port	3 (Tac)	2 (Sea)		2 (Anac)	1 (Oly)
H	Intended discharge volume	3 (11K)	2 (8.5K)		2 (3k)	1 (0.7k)
I	BW Age	2 (8 d)	2 (11d)		2 (15d)	1 (32d)
J	BWM Type	3 (BWE)	3 (BWE)		3 (BWE)	3 (BWE)
Total Ranking Count		21	17		16	12
Priority Class (P1 or P2)		P1	P2	P1	P2	P2

Other Vessel Boarding Factors (Yes; No; Unk)

USCG inspection same day	No	No	No	Yes	No	No
Vessel at berth	Yes	Yes	No	Yes	No	Yes
Imminent NC BW discharge	No	No	No	No	No	No
Other:						
Other:						

Notes:

Appendix
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Vessel Arrival Risk Ranking Protocols

- **Vessel Boarding Selection Elements**
 - P1 = highest priority for boarding
 - Imminent NC discharge/other NC risk
 - USCG inspection
 - Vessel at berth
 - Distance/travel time

Next Steps

- **Application started January 1, 2018**
- **Continuing testing**
- **Add low salinity port appendix**
- **Add 3-year past inspection appendix**
- **BWWG review** (no comments to date)
- **Develop budget proposal for full enhancement**

Thank You!

QUESTIONS?



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