

DAY TWO – MORNING



8:30 a.m. – 8:45 a.m. Baseline Risk Levels Results

8:45 a.m. – 11:30 a.m. Existing Risk Mitigations Discussion / Evaluation

11:30 a.m. - 12:30 p.m. Lunch

DAY TWO – AFTERNOON



12:30 p.m. - 1:00 p.m. Action Planning / Book 3 results

1:00 p.m. - 3:30 p.m. Additional Interventions Discussion / Evaluation

3:30 p.m. - 3:45 p.m. Workshop Critique Book 4 Results

3:45 p.m. - 4:00 p.m. Workshop Conclusion

BASELINE RISK LEVELS



Vessel Conditions	Traffic Conditions	Navigational Conditions	Waterway Conditions	Immediate Consequences	Subsequent Consequences
Deep Draft Vessel Quality	Volume of Commercial Traffic	Winds	Visibility Impediments	Personnel Injuries	Health and Safety
2.9	8.3	1.9	8.0	9.0	9.0
Shallow Draft Vessel Quality	Volume of Small Craft Traffic	Water Movement	Dimensions	Petroleum Discharge	Environmental
4.3	5.6	8.1	6.5	9.0	6.6
Commercial Fishing Vessel Quality	Traffic Mix	Visibility Restrictions	Bottom Type	Hazardous Materials Release	Aquatic Resources
3.6	7.8	3.1	8.8	8.4	4.7
Small Craft Quality	Congestion	Obstructions	Configuration	Mobility	Economic
7.9	8.2	3.8	9.0	8.3	7.9



Book 3:

MITIGATION EFFECTIVENESS



Risk Category

Risks / Mitigations
Balanced?

Factor One	1	2	3	4	5	6	7	8	9	Yes	No
Factor Two	1	2	3	4	5	6	7	8	9	Yes	No
Factor Three	1	2	3	4	5	6	7	8	9	Yes	No
Factor Four	1	2	3	4	5	6	7	8	9	Yes	No

-  = Absolute risk level value from Book 3
-  = Risk level accounting for existing mitigation strategies

Book 3: MITIGATION EFFECTIVENESS



Risk Category

Risks / Mitigations
Balanced?

Factor One	1	2	3	4	5	6	7	8	9	Yes	No
Factor Two	1	2	3	4	5	6	7	8	9	Yes	No
Factor Three	1	2	3	4	5	6	7	8	9	Yes	No
Factor Four	1	2	3	4	5	6	7	8	9	Yes	No

-  = Absolute risk level value from Book 3
-  = Risk level accounting for existing mitigation strategies

LUNCH!



ACTION PLANNING



RISKS

GOALS

STRATEGIES

ACTIONS

MITIGATION STRATEGIES



- **Coordination / Planning**
- **Voluntary Training**
- **Rules & Procedures**
- **Enforcement**
- **Navigation / Hydrographic Info**
- **Communications**
- **Active Traffic Management**
- **Waterway Changes**
- **Other Actions**

PRESENT RISK LEVELS



Vessel Conditions	Traffic Conditions	Navigational Conditions	Waterway Conditions	Immediate Consequences	Subsequent Consequences
Deep Draft Vessel Quality	Volume of Commercial Traffic	Winds	Visibility Impediments	Personnel Injuries	Health and Safety
2.9 2.5	8.3 5.3	1.9 1.4	8.0 5.2	9.0 4.2	9.0 5.2
Balanced	Balanced	Balanced	Balanced	Balanced	Balanced
Shallow Draft Vessel Quality	Volume of Small Craft Traffic	Water Movement	Dimensions	Petroleum Discharge	Environmental
4.3 4.1	5.6 5.0	8.1 5.9	6.5 4.4	9.0 5.0	6.6 4.4
Maybe	Maybe	Maybe	Balanced	Balanced	Balanced
Commercial Fishing Vessel Quality	Traffic Mix	Visibility Restrictions	Bottom Type	Hazardous Materials Release	Aquatic Resources
3.6 3.3	7.8 6.5	3.1 2.4	8.8 5.1	8.4 5.7	4.7 3.4
Balanced	Maybe	Balanced	Balanced	Balanced	Balanced
Small Craft Quality	Congestion	Obstructions	Configuration	Mobility	Economic
7.9 7.3	8.2 6.5	3.8 2.8	9.0 5.7	8.3 4.4	7.9 5.6
NO	Maybe	Balanced	Balanced	Balanced	Balanced

Book 4: INTERVENTION EFFECTIVENESS



RISK CATEGORY

Risk Factor

Coordination / Planning	<i>Specific action needed</i>	1	2	3	4	5	6	7	8	9
Education		1	2	3	4	5	6	7	8	9
Rules & Procedures	<i>Another action needed</i>	1	2	3	4	5	6	7	8	9
Enforcement		1	2	3	4	5	6	7	8	9
Nav / Hydro Info		1	2	3	4	5	6	7	8	9
Communications		1	2	3	4	5	6	7	8	9
Active Traffic Management		1	2	3	4	5	6	7	8	9
Waterway Changes		1	2	3	4	5	6	7	8	9
Other Actions		1	2	3	4	5	6	7	8	9

 = Existing risk level value from Book 4

 = Risk level if this mitigation strategy were implemented

CRITIQUE



ADDITIONAL INTERVENTIONS



Vessel Conditions	Traffic Conditions	Navigational Conditions	Waterway Conditions	Immediate Consequences	Subsequent Consequences
Deep Draft Vessel Quality	Volume of Commercial Traffic	Winds	Visibility Impediments	Personnel Injuries	Health and Safety
Balanced	Balanced	Balanced	Balanced	Balanced	Balanced
Shallow Draft Vessel Quality	Volume of Small Craft Traffic	Water Movement	Dimensions	Petroleum Discharge	Environmental
Voluntary Training 3.3	Enforcement 4.8	Nav / Hydro Info 5.6	Balanced	Balanced	Balanced
Commercial Fishing Vessel Quality	Traffic Mix	Visibility Restrictions	Bottom Type	Hazardous Materials Release	Aquatic Resources
Balanced	Other Actions 5.1	Balanced	Balanced	Balanced	Balanced
	Caution				
Small Craft Quality	Congestion	Obstructions	Configuration	Mobility	Economic
Voluntary Training 6.8	Enforcement 6.1	Balanced	Balanced	Balanced	Balanced

NEW YORK

WATERWAY RISK ASSESSMENT



Thanks!

POST-WORKSHOP ACTION



- **PAWSA Workshop Report**
- **Actions within Sponsor authority**
- **Interagency liaison / partnerships**
- **Seek federal level resources**