

Appendix B Port Stewardship Framework

Activity	Criteria	Criteria Descriptions – minimum standards apply. Overall score for each activity cannot be higher than the minimum score for Implementation or outcome		
		Planning	Implementation	Outcome
Administration				
<u>Extension and Research Projects:</u> Note these cover water quality and ecosystem health related issues only.	Very Effective	There is planned involvement in several extension (community or industry) activities/programs that are focussed on research, monitoring or managing ecosystem health.	There is active involvement or support for extension programs relevant to ecosystem health, with long term commitments.	Highly successful outcomes of extension programs (e.g. support for the program, programs maintained in long-term or environmental goals achieved).
	Effective	There is planned involvement in more than one extension (community or industry) activities/programs that are focussed on research, monitoring or managing ecosystem health.	There is active involvement or support for extension programs relevant to ecosystem health, with annual commitments.	Successful outcomes of extension programs (e.g. support for the program, programs maintained in long-term or environmental goals achieved).
	Partially Effective	There is planned involvement in at least one extension (community or industry) activities/programs that are focussed on focussed on research, monitoring or managing ecosystem health.	There is sporadic active involvement or support for extension programs relevant to ecosystem health.	Some successful outcomes of extension programs (e.g. support for the program, programs maintained in long-term or environmental goals achieved).
	Not Effective	There is no planned involvement in extension (community or industry) activities/programs that are focussed on focussed on research, monitoring or managing ecosystem health.	There is limited or no involvement or support for extension programs relevant to ecosystem health with long term commitments.	Few successful outcomes of extension programs (e.g. support for the program, programs maintained in long-term or environmental goals achieved).
<u>Compliance approach:</u> Note that these apply to water quality related authorities only	Very Effective	NA	Requirements of all authorities are implemented, monitored and reported on, with regular voluntary/industry led engagement with regulators.	The results/learnings from incidents and near misses always feed into further development and update of management systems and operations.
	Effective	All site operational procedures/protocols are developed to fully comply with all aspects of environmental approvals (e.g. EAs, permits)	Requirements of all authorities are implemented, monitored and reported on, with some voluntary/industry led engagement with regulators.	The results/learnings from incidents and near misses mostly feed into further development and update of management systems and operations
	Partially Effective	NA	Requirements of all authorities are implemented, monitored and reported on, with regulator-instigated engagement only.	The results/learnings from incidents and near misses sometimes feed into further development and update of management systems and operations
	Not Effective	Not all site operational procedures/protocols developed to fully comply with all aspects of environmental approvals (e.g. EAs, permits)	Requirements of the few authorities are implemented, monitored and reported on and lack of engagement.	The results/learnings from incidents and near misses rarely feed into further development and update of management systems and operations
<u>EMS</u>	Very Effective	EMS developed and certified to ISO 14001 standard. EMS addresses relevant major pressures and risks to water quality and ecosystem health.	EMS fully implemented, monitored and reviewed.	EMS certification maintained, frequently reviewed and updated.
	Effective	EMS developed to ISO 14001 standard, though no certification. EMS addresses relevant major pressures and risks to water quality and ecosystem health.	EMS implemented, monitored and reviewed.	EMS maintained, regularly reviewed and updated.
	Partially Effective	EMS developed, though not certified or to ISO 14001 standard. EMS addresses relevant major pressures and risks to water quality and ecosystem health.	Most but not all elements of EMS implemented, monitored and reviewed.	EMS maintained, review and updating of EMS.
	Not Effective	EMS not developed.	Few elements of EMS implemented, monitored and reviewed.	EMS not maintained or reviewed.

<u>Training, Knowledge and Awareness</u>	Very Effective	Relevant staff are adequately qualified and highly experienced in environmental management. Further training or education around ecosystem health forms part of the professional development goals of key staff.	Environmental management training is provided to all staff, with more specific internal and external environmental training made available for environmental management staff.	All training development goals met.
	Effective	Relevant staff are adequately qualified and/or highly experienced in environmental management.	Environmental management training is provided to all staff, with more specific internal environmental training made available for environmental management staff.	Most training development goals met.
	Partially Effective	Relevant staff are not adequately qualified, though have adequate experience in environmental management.	Environmental management training is provided to key staff.	Some training development goals met
	Not Effective	Relevant staff are not adequately qualified or experienced.	Environmental management is not provided, or is out of date and/or missing important information.	No training development goals met.
<u>Community Engagement:</u> Note these cover water quality health related issues only.	Very Effective	There is planned involvement to engage with the community on all aspects of operational activities and future development activities that relate to managing ecosystem health, as part of a broader strategy of environmental management or stakeholder engagement.	There is active involvement and support for community engagement programs relevant to ecosystem health, with a long term commitment.	There is a high participation rate and strong positive feedback from the community on the level of engagement provided.
	Effective	There is planned involvement to engage with the community on some aspects of operational activities and/or future development activities that relate to managing ecosystem health, as part of a broader strategy of environmental management or stakeholder engagement.	There is active involvement and support for community engagement programs relevant to ecosystem health, with annual commitments.	There is a high participation rate with generally positive feedback from the community on the level of engagement provided.
	Partially Effective	There is planned involvement to engage with the community on aspects of operational activities and/or future development activities, but without a broader strategy of environmental management or stakeholder engagement.	There is active involvement and support for community engagement programs relevant to ecosystem health on an ad hoc or as needs basis.	There is a moderate participation rate with mixed feedback from the community on the level of engagement provided.
	Not Effective	There is no planned involvement to engage with the community on aspects of operational activities and/or future development activities.	There is limited or no involvement for community engagement programs relevant to ecosystem health.	There is a low participation rate and negative (or an absence of) feedback from the community on the level of engagement provided.
<u>Tenancy management</u>	Very Effective	Lease contains specific and clear environmental management conditions for all relevant environmental aspects. These measures cover commencement, operation and termination of the lease. Environmental Standards for all tenants in place.	Regular inspections of tenant operations are undertaken and issues appropriately addressed in a timely manner. Joint initiatives established where demonstrated to be beneficial, feasible and practical.	Tenants fully comply with lease requirements and Environmental Standards (where they exist). Majority of tenants participate in joint initiatives where established.
	Effective	Lease contains few and high level environmental management conditions for key environmental aspects. These measures cover commencement, operation and termination of the lease. Environmental Standards exist but may not yet be fully applied.	Occasional inspections of tenant operations are undertaken and issues appropriately addressed in a timely manner.	Tenants mostly comply with lease requirements and Environmental Standards (where they exist). Some tenants participate in joint initiatives where established.
	Partially Effective	Lease contains unclear or very few environmental management conditions for only a few of the relevant environmental aspects. These measures cover commencement, operation and termination of the lease. No Environmental Standards.	Few inspections of tenant operations are undertaken and issues appropriately addressed at some point.	Tenants partially comply with lease requirements and Environmental Standards (where they exist). Few tenants participate in joint initiatives where established.
	Not Effective	Lease contains no environmental management conditions and there are no Environmental Standards	Inspections of tenant operations are not undertaken.	Tenants regularly do not comply with lease requirements and Environmental Standards (where they exist). Tenants do not participate in joint initiatives where established.
Shipping				

<u>Movement:</u> Vessels entering port limits and moving to and from berths. Issues include routes, speeds	Very Effective	REEF VTS and local vessels monitoring systems (incl. Harbour Master) are in place and integrated into all relevant operational plans.	REEF VTS and local vessels monitoring systems are fully operational and have secure long term funding.	No shipping incidents or near misses.
	Effective	REEF VTS and local vessels monitoring systems (incl. Harbour Master) are in place and integrated into most relevant operational plans.	REEF VTS and local vessels monitoring systems are fully operational and have secure medium term funding.	No shipping incidents. Few near misses.
	Partially Effective	REEF VTS and/or local vessels monitoring systems (incl. Harbour Master) not fully in place.	REEF VTS and local vessels monitoring systems are partially operational and/or lack funding security.	No shipping incidents. Many near misses.
	Not Effective	REEF VTS and/or local vessels monitoring systems (incl. Harbour Master) not in place.	REEF VTS and local vessels monitoring systems are not operational.	One or more shipping incidents. Many near misses.
<u>Anchorage:</u> Anchoring offshore (not portside)	Very Effective	Designated anchorage areas are charted, with location informed primarily by environmental constraints.	Anchoring always occurs within designated areas.	No harm caused to environmentally sensitive receptors from anchoring.
	Effective	Designated anchorage areas are charted, with location partially informed by environmental constraints.	Anchoring occurs designated area, except in exceptional circumstances.	Minimal and reversible harm to environmentally sensitive receptors from anchoring.
	Partially Effective	Some identification and charting of designated anchorage area, but not comprehensive.	Anchoring mostly occurs within designated areas.	Moderate and long-term harm to environmentally sensitive receptors from anchoring.
	Not Effective	Designated anchorage areas not identified.	Anchoring often occurs outside designated areas.	Significant harm to environmentally sensitive receptors from anchoring.
<u>Discharges:</u> bilge/ballast, shipping waste, antifoul	Very Effective	MARPOL and local regulatory requirements well understood by all users.	Discharge practices exceed international and local requirements.	No pollution incidents.
	Effective	MARPOL and local regulatory requirements well understood by management staff.	Discharge practices meet international and local requirements.	Few, minor pollutions incidents.
	Partially Effective	MARPOL and local regulatory requirements partially understood by management staff.	Discharge practices partially meet international and local requirements.	Regular, minor pollution incidents.
	Not Effective	MARPOL and local regulatory requirements not understood by management staff.	Discharge practices do not meet international and local requirements.	Continual, minor pollution incidents and/or one (or more) major pollution incident.
<u>Biosecurity:</u> Introduced Marine Pests (IMPs)	Very Effective	Biosecurity plans and protocols are well established by relevant agencies.	IMP monitoring is undertaken as part of a long-term program. IMPs are detected soon after invasion and eradication/management measures implemented immediately post-detection.	Any existing IMP populations significantly reducing. No new IMP establishments.
	Effective	Biosecurity plans and protocols are established by relevant agencies.	IMP monitoring is undertaken. IMPs are detected and eradication/management measures implemented post-detection.	Any existing IMP populations stable. No new IMP establishments.
	Partially Effective	Biosecurity plans and protocols are partially established by relevant agencies.	Limited IMP monitoring is undertaken. IMPs are detected and ad hoc measures implemented post-detection.	Any existing IMP populations increasing. No new IMP establishments.
	Not Effective	Biosecurity plans and protocols are not established	No IMP monitoring is undertaken. IMPs are detected/ known to occur though there are no measures implemented to manage the issue post-detection.	Any existing IMP populations increasing. One or more new IMP establishments.

Port operations				
<u>Operational and Ancillary activities:</u> Includes all operational elements that may affect ecosystem health, such as: landside waste, hazardous substance storage, refuelling vehicles, quarries, loading and unloading, spill management	Very Effective	NA	Activities are undertaken with very high levels of compliance with regulatory requirements (>90%).	Very few environmental incidents.
	Effective	All regulatory requirements (e.g. permits, EAs, Management Plans/procedures) are in place	Activities are undertaken with high levels of compliance with regulatory requirements (80-90%).	Few, minor environmental incidents.
	Partially Effective	NA	Activities are undertaken with moderate levels of compliance with regulatory requirements (60-80%).	Regular, minor environmental incidents.
	Not Effective	Not all regulatory requirements (e.g. permits, EAs, Management Plans/procedures) are in place.	Activities are undertaken with poor levels of compliance with regulatory requirements (<60%).	Continual, minor environmental incidents and/or one (or more) major environmental incident.
<u>Maintenance dredging</u>	Very Effective	All regulatory requirements (e.g. permits, EAs, Dredging Management Plan) are in place. A long-term maintenance dredging strategy has been developed to minimise dredge volumes and frequencies.	Activities are always undertaken in line with regulatory requirements.	No harm caused to environmentally sensitive receptors from dredging.
	Effective	All regulatory requirements (e.g. permits, EAs, Dredging Management Plan) are in place. A long-term maintenance dredging strategy has not been developed to minimise dredge volumes and frequencies	Activities are undertaken in line with regulatory requirements, except in exceptional circumstances.	Minimal and reversible harm to environmentally sensitive receptors from dredging.
	Partially Effective	NA	Activities are mostly undertaken in line with regulatory requirements.	Moderate and long-term harm to environmentally sensitive receptors from dredging.
	Not Effective	Not all regulatory requirements (e.g. permits, EAs) are in place.	Activities are not undertaken in line with regulatory requirements.	Significant harm to environmentally sensitive receptors from dredging.
Port Development				
<u>Capital dredging:</u> Dredging and disposal	Very Effective	NA	Activities are always undertaken in line with regulatory requirements.	No harm caused to environmentally sensitive receptors from dredging.
	Effective	All regulatory requirements (e.g. permits, EAs, Dredging Management Plan) are in place, and meet regulatory requirements.	Activities are undertaken in line with regulatory requirements, except in exceptional circumstances.	Minimal and reversible harm to environmentally sensitive receptors from dredging.
	Partially Effective	NA	Activities are mostly undertaken in line with regulatory requirements.	Moderate and long-term harm to environmentally sensitive receptors from dredging.
	Not Effective	Not all regulatory requirements (e.g. permits, EAs, Dredging Management Plan) are in place.	Activities are not undertaken in line with regulatory requirements.	Significant harm to environmentally sensitive receptors from dredging.
<u>New port</u>	Very Effective	All regulatory requirements (e.g. permits, EAs, approvals) are in	Activities are always undertaken in line with regulatory requirements.	No harm caused to environmentally sensitive receptors from

<u>development or significant upgrades:</u> New / significant upgrades to infrastructure (jetties, channels etc.), services, facilities, operators		place. Port development is fully informed and undertaken in line with legislated land use plans and/or port master plans, which have been developed taking all environmental values into account.		development.
	Effective	All regulatory requirements (e.g. permits, EAs, approvals) are in place, Port development is mostly informed and undertaken in line with legislated land use plans and/or port master plans, which have been developed taking major environmental values into account.	Activities are undertaken in line with regulatory requirements, except in exceptional circumstances.	Minimal and reversible harm to environmentally sensitive receptors from development.
	Partially Effective	All regulatory requirements (e.g. permits, EAs, approvals) are in place. Port development is not guided by land use plans and/or port master plans.	Activities are mostly undertaken in line with regulatory requirements.	Moderate and long-term harm to environmentally sensitive receptors from development.
	Not Effective	Not all regulatory requirements (e.g. permits, EAs, approvals) are in place.	Activities are not undertaken in line with regulatory requirements.	Significant harm to environmentally sensitive receptors from development.

Appendix C Industry Stewardship Framework

Activity	Criteria	Criteria Descriptions – minimum standards apply. Overall score for each activity cannot be higher than the minimum score for Implementation or outcome		
		Planning	Implementation	Achievement
Administration				
<u>Extension and Research Projects:</u> Note these cover water quality and ecosystem health related issues only.	Very Effective	There is planned involvement in several extension (community or industry) activities/programs that are focussed on research, monitoring or managing ecosystem health.	There is active involvement or support for extension programs relevant to ecosystem health, with long term commitments.	Highly successful outcomes of extension programs (e.g. support for the program, programs maintained in long-term or environmental goals achieved).
	Effective	There is planned involvement in more than one extension (community or industry) activities/programs that are focussed on focussed on research, monitoring or managing ecosystem health.	There is active involvement or support for extension programs relevant to ecosystem health, with annual commitments.	Successful outcomes of extension programs (e.g. support for the program, programs maintained in long-term or environmental goals achieved).
	Partially Effective	There is planned involvement in at least one extension (community or industry) activities/programs that are focussed on focussed on research, monitoring or managing ecosystem health.	There is sporadic active involvement or support for extension programs relevant to ecosystem health.	Some successful outcomes of extension programs (e.g. support for the program, programs maintained in long-term or environmental goals achieved).
	Not Effective	There is no planned involvement in extension (community or industry) activities/programs that are focussed on focussed on research, monitoring or managing ecosystem health.	There is limited or no involvement or support for extension programs relevant to ecosystem health, with long term commitments.	Few successful outcomes of extension programs (e.g. support for the program, programs maintained in long-term or environmental goals achieved).
<u>Compliance approach:</u> Note that these apply to water quality related authorities only	Very Effective	NA	Requirements of all authorities are implemented, monitored and reported on, with regular voluntary/industry led engagement with regulators.	The results/learnings from incidents and near misses always feed into further development and update of management systems and operations.
	Effective	All site operational procedures/protocols are developed to fully comply with all aspects of environmental approvals (e.g. EAs, permits)	Requirements of all authorities are implemented, monitored and reported on, with some voluntary/industry led engagement with regulators.	The results/learnings from incidents and near misses mostly feed into further development and update of management systems and operations
	Partially Effective	NA	Requirements of all authorities are implemented, monitored and reported on, with regulator-instigated engagement only.	The results/learnings from incidents and near misses sometimes feed into further development and update of management systems and operations
	Not Effective	Not all site operational procedures/protocols developed to fully comply with all aspects of environmental approvals (e.g. EAs, permits)	Requirements of the few authorities are implemented, monitored and reported on and lack of engagement.	The results/learnings from incidents and near misses rarely feed into further development and update of management systems and operations
<u>EMS</u>	Very Effective	EMS developed and certified to ISO 14001 standard. EMS addresses relevant major pressures and risks to water quality and ecosystem health.	EMS fully implemented, monitored and reviewed.	EMS certification maintained, frequently reviewed and updated.
	Effective	EMS developed to ISO 14001 standard, though no certification. EMS addresses relevant major pressures and risks to water quality and ecosystem health.	EMS implemented, monitored and reviewed.	EMS maintained, regularly reviewed and updated.
	Partially Effective	EMS developed, though not certified or to ISO 14001 standard. EMS addresses relevant major pressures and risks to water quality and ecosystem health.	Most but not all elements of EMS implemented, monitored and reviewed.	EMS maintained, review and updating of EMS.
	Not Effective	EMS not developed.	Few elements of EMS implemented, monitored and reviewed.	EMS not maintained or reviewed.

<u>Training, Knowledge and Awareness</u>	Very Effective	Relevant staff are adequately qualified and highly experienced in environmental management. Further training or education around ecosystem health forms part of the professional development goals of key staff.	Environmental management training is provided to all staff, with more specific internal and external environmental training made available for environmental management staff.	All training development goals met.
	Effective	Relevant staff are adequately qualified and/or highly experienced in environmental management.	Environmental management training is provided to all staff, with more specific internal environmental training made available for environmental management staff.	Most training development goals met.
	Partially Effective	Relevant staff are not adequately qualified, though have adequate experience in environmental management.	Environmental management training is provided to key staff.	Some training development goals met
	Not Effective	Relevant staff are not adequately qualified or experienced.	Environmental management is not provided, or is out of date and/or missing important information.	No training development goals met.
<u>Community Engagement:</u> Note these cover water quality and ecosystem health related issues only.	Very Effective	There is planned involvement to engage with the community on all aspects of operational activities and future development activities that relate to managing ecosystem health, as part of a broader strategy of environmental management or stakeholder engagement.	There is active involvement and support for community engagement programs relevant to ecosystem health, with a long term commitment.	There is a high participation rate and strong positive feedback from the community on the level of engagement provided.
	Effective	There is planned involvement to engage with the community on some aspects of operational activities and/or future development activities that relate to managing ecosystem health, as part of a broader strategy of environmental management or stakeholder engagement.	There is active involvement and support for community engagement programs relevant to ecosystem health, with annual commitments.	There is a high participation rate with generally positive feedback from the community on the level of engagement provided.
	Partially Effective	There is planned involvement to engage with the community on aspects of operational activities and/or future development activities, but without a broader strategy of environmental management or stakeholder engagement.	There is active involvement and support for community engagement programs relevant to ecosystem health on an ad hoc or as needs basis.	There is a moderate participation rate with mixed feedback from the community on the level of engagement provided.
	Not Effective	There is no planned involvement to engage with the community on aspects of operational activities and/or future development activities.	There is limited or no involvement for community engagement programs relevant to ecosystem health.	There is a low participation rate and negative (or an absence of) feedback from the community on the level of engagement provided.
Industry operations				
<u>Operational and Ancillary activities:</u> Includes all operational elements that may affect ecosystem health, such as: stormwater management, discharges, landside waste, stockpile management, hazardous substance storage, refuelling vehicles, spill management	Very Effective	NA	Activities are undertaken with very high levels of compliance with regulatory requirements (>90%).	Very environmental incidents.
	Effective	All regulatory requirements (e.g. permits, EAs, Management Plans/procedures) are in place	Activities are undertaken with high levels of compliance with regulatory requirements (80-90%).	Few, minor environmental incidents.
	Partially Effective	NA	Activities are undertaken with moderate levels of compliance with regulatory requirements (60-80%).	Regular, minor environmental incidents.
	Not Effective	Not all regulatory requirements (e.g. permits, EAs, Management Plans/procedures) are in place.	Activities are undertaken with poor levels of compliance with regulatory requirements (<60%).	Continual, minor environmental incidents and/or one (or more) major environmental incident.

Site/facility Development				
<u>Site development or significant upgrades:</u> New / significant upgrades or expansion (site expansion, new buildings, services, facilities).	Very Effective	All regulatory requirements (e.g. permits, EAs, approvals) are in place. Development is fully informed and undertaken in line with legislated land use plans and/or site master plans, which have been developed taking all environmental values into account.	Activities are always undertaken in line with regulatory requirements.	No harm caused to environmentally sensitive receptors from development.
	Effective	All regulatory requirements (e.g. permits, EAs, approvals) are in place. Development is mostly informed and undertaken in line with legislated land use plans and/or site master plans, which have been developed taking major environmental values into account.	Activities are undertaken in line with regulatory requirements, except in exceptional circumstances.	Minimal and reversible harm to environmentally sensitive receptors from development.
	Partially Effective	All regulatory requirements (e.g. permits, EAs, approvals) are in place. Development is not guided by land use plans and/or site master plans.	Activities are mostly undertaken in line with regulatory requirements.	Moderate and long-term harm to environmentally sensitive receptors from development.
	Not Effective	Not all regulatory requirements (e.g. permits, EAs, approvals) are in place.	Activities are not undertaken in line with regulatory requirements.	Significant harm to environmentally sensitive receptors from development.