

Malahat Nation

Environmental
Management Plan -
Implementation Plan



Malahat

1.0 INTRODUCTION

To support the success of Malahat Nations Environmental Management Plan (EMP), this Implementation Plan will act as a complimentary document to the EMP for the purposes of annual work planning and reporting. The ten (10) priority areas identified in the EMP include:

- Environmental Review
- Sustainable Land Management
- Culturally Valuable Resources
- Groundwater and Surface Water Management
- Contaminated Water and Soils
- Waste Management
- Air Quality
- First and Fish Habitat
- Wildlife and Habitat Protection
- Invasive Species

The Implementation Plan will outline key initiatives designed to achieve environmental protection and stewardship within the priority areas outlined. The initiatives will be organized into the priority areas and given a priority rating. The priority rating is not meant to represent the initiatives importance over other initiatives; however, it is meant to represent the timeline for implementation. Some initiatives are on-going and may not have a beginning and end timeline and are identified accordingly. The timeline ratings are as follows:

- High – 1 to 2 years for implementation
- Medium 2-4 years for implementation
- Low – more than 4 years for implementation

In addition to timeline prioritization ratings, the initiatives will also have a cost range rating to assist in project planning and resource allocation. The cost range ratings are as follows:

- Low - \$0 to \$9999
- Medium - \$10,000 to \$50,000
- High - over \$50,000

Another important aspect for determining the success of the EMP will be the commitment to performance indicators and deliverables. These metrics will be the primary communication tools for annual reporting to the community and Chief and Council. The key results provided in this Implementation Plan are initial metrics and may be amended as initiatives are implemented to best reflect the outcomes of the initiatives and any changes to risks, environmental conditions, and community priorities. As outlined in the EMP, any changes to the EMP or Implementation Plan will be presented to Chief and Council and adopted through Band Council Resolution.

Table B: Implementation strategy for proposed responses to environmental priorities.

Task	Sub-Task	Description	Key Result	Estimated Cost	Priority
Environmental Review					
Environmental Review Policy	<i>Outline how development proposals navigate the environmental review process on IR 11 and inclusion of standard forms and minimum standards for data requirements.</i>				
	Environmental Review Report Form	- identifies existing environmental features/functions, and opportunities and constraints to development	Environmental Review Form developed	Low	High
	Land Use Application Form	- development of a standardized Land Use Application Form for development proposals	Land Use Application Form developed	Low	High
Environmental Protection Law	<i>Law to protect environmental resources and features on IR 11.</i>				
	Standards	- sets standards for soil, air, and water quality objectives	Standards developed for soil, air, and water	Medium	Low
	Permits and prohibitions	- permits for soil/fill imports, exports, prohibits hunting and harvesting in protections areas	Permits and prohibited activities/areas developed and communicated	Medium	Low
	Adoption of Plans	- adopt Spill Response Plan, Invasive Species Management Plan, and Wellhead and Groundwater Protection Plan into law	Spill Response Plan, Invasive Species Management Plan, and Wellhead and Groundwater Protection Plan adopted into laws	Low	Low
Environmental Assessment Law		- provides criteria for project exclusions, reviews, timelines, and assessment report requirements	Law developed under Land Code law making process	Medium	Low

Task	Sub-Task	Description	Key Result	Estimated Cost	Priority
Sustainable Land Management					
Reserve-wide bio-inventory	<i>Baseline inventory of environmental features of IR 11 including species, and environmentally and culturally sensitive areas. To be used as foundation for environmental assessment, stewardship, and conservation initiatives.</i>				
	Medicinal & culturally important plant inventory	- locate and record medicinal and culturally important plants - utilize interviews with knowledge holders and field surveys	Result is a geospatial data set to inform the Cultural Resources Management Law.	Medium	High
	CMT inventory	- locate and record all CMTs	Geospatial data set developed to inform the Cultural Resources Management Law.	Medium	High
	Culturally important areas inventory	- locate and record culturally significant areas such as bathing areas, burial sites and middens. - utilize interviews with knowledge holders and field surveys	Geospatial data set developed to inform the Cultural Resources Management Law.	Medium	High
	SAR and SAR habitat inventory	- identification of potential SAR habitat and any incidental SAR occurrences	Geospatial data set developed to inform the Environmental Protection Law and Zoning and Development Law.	Low	High
	Watercourses and Fish & Fish Habitat	- identification of all watercourses, including fish and fish habitat	Geospatial data set developed to inform the Environmental Protection Law and Zoning and Development Law.	Low	High
	Migratory bird habitat	- identification of potential migratory bird habitat, including incidental observations of migratory birds	Geospatial data set developed to inform the Environmental Protection Law and Zoning and Development Law.	Low	High
	Invasive/noxious species	- identification of invasive and noxious plant species	Geospatial data set developed to inform the Land Issues Inventory and an Invasive Plant Management Plan.	Low	High

Task	Sub-Task	Description	Key Result	Estimated Cost	Priority
Land Issues Inventory		Provides a baseline for current environmental issues to be used in monitoring, remediation, and enhancement programs.	Land Issues Inventory developed	Low	High
Zoning and Development Law		- provides requirements and standards developments must achieve including landscaping, vegetation retention, and erosion and sediment control	Zoning and Development Law developed	Medium	Medium
Environmental Monitoring Program	<i>Provides training and capacity building opportunities for community members and stewardship of the environment. Actively involves members in collection of data, monitoring, regional initiatives, and studies. Linked to Land Issues Inventory, Chance Find Procedures, Cultural Resource Management Law, Zoning and Development Law, and Environmental Protection Law.</i>				
	Training Program	- provide opportunities for members to get education and training.	Training and education opportunities provided to members	Medium	On going
	Monitoring Program	- utilize skills learned during the training program and provide employment opportunities to monitor environmental aspects - promotes and encourages stewardship of the land by being actively involved in environmental initiatives.	Utilizes skills learned during the training program and provides employment opportunities to monitor environmental aspects of IR 11. Promotes and encourages stewardship of the land by being actively involved in environmental initiatives.	Medium – High	Medium
	Regional Initiatives	- trained members can contribute to stewardship of the land and community science through involvement in regional initiatives such as streamkeepers groups, Guardians programs, or other initiatives outside IR 11.	Trained members participating in regional initiatives	Low	On going

Task	Sub-Task	Description	Key Result	Estimated Cost	Priority
Terms of Reference for Developers		- tool for developers that provides a checklist to meet sustainable land management objectives including requirements for CEMP, OEMP, environmental monitoring and tree protection plans	Terms of Reference / Checklist developed	Low	Medium
Spill Prevention and Response Plan		- provides proponents, contractors and Malahat staff with clear procedures and action plan to prevent and respond to spills	Spill Prevention and Response Plan developed and adopted	Medium	Medium
Malahat Good Neighbour Law		- provides a set of policies and standards for the community to control spread of invasive species, manage wastes and recycling and burning	Good Neighbour Law developed	Medium	Low
Culturally Valuable Resources					
Archaeological Chance Find Procedures		- provides proponents, contractors and Malahat staff with protocols when conducting land disturbance works	Archaeological Chance Find Procedures developed	Medium	High
Cultural Resource Management Law	<i>Adopts the Chance Find Procedures, requires archaeological assessments and monitoring, and creates a strategy to protect culturally important features.</i>				
	Adoption of Chance Find Procedures	- brings Chance Find Procedures into law	Chance Find Procedures adopted	Medium	Medium
	Development Procedures	- develop archaeological assessment and monitoring requirements for development	Development procedures integrate cultural protection requires	Medium	Medium

Task	Sub-Task	Description	Key Result	Estimated Cost	Priority
	Strategies and protection areas	<ul style="list-style-type: none"> - development of a cultural resource protection strategy for important sites, objects, and species - establishment of No-Cut-Zones and other development restrictions 	Cultural Resource Protection Strategy developed	Medium	Medium
Community Consultation		<ul style="list-style-type: none"> - collection of cultural and traditional ecological knowledge, identification of culturally significant areas and plants - communications on protection policies and laws 	Community members feel a sense of inclusion and understanding of key environmental protection concerns	Low - Medium	On going
Education programs directed towards youth		<ul style="list-style-type: none"> - engagement, education, and capacity building opportunities to involve youth in cultural and environmental practices - creating stewardship and leadership within the community 	Youth feel a sense of inclusion and understanding of key environmental protection concerns	Low - Medium	On going
Groundwater and Surface Water Management					
Stormwater discharges and erosion locations		<ul style="list-style-type: none"> - identify and map all known stormwater inputs to watercourses, areas of beachfront or other erosion - Informs Environmental Monitoring Program 	Stormwater inputs mapped	Medium	High
Wellhead and Groundwater Protection Plan		<ul style="list-style-type: none"> - develop a groundwater protection plan that addresses source protection 	Wellhead and Groundwater Protection Plan developed	Medium	Medium

Task	Sub-Task	Description	Key Result	Estimated Cost	Priority
Contaminated Water and Soil					
Contaminated Sites Management Tool	<i>Provides residents and tenants with educational materials and requirements for preparation of prevention and response plan for Malahat review. Sets regular audits and reports. Informs Land Issues Inventory.</i>				
	Educational tools for residents and tenants	- information package that includes BMPs and educational tools for residents and tenants	Educational information packages developed	Low	Low
	Requirements for leasehold tenants	- requirement for tenants to develop and implement a Contaminated Sites Response Plan	Development policy/process includes requirements for Contaminated Sites Response Plan for leasehold tenants	Medium	Low
	Audits and annual reports	- regular audits of tenant plans and communication of results to Malahat community	Auditing and communication reporting implemented	Low	On going
	Training Program for handling hazardous materials	- training for residents and tenants in the handling of hazardous materials to prevent spills	Training and spill response capacity developed and implemented	Medium	Low
Manage Areas of Environmental Concern (AECs)		- identification and classification of known AECs - informs Environmental Monitoring Program - assists in developing a Contaminated Sites Management Tool and in remediation/risk management efforts	AECs identified to determine remediation/risk management needs	Low	High

Task	Sub-Task	Description	Key Result	Estimated Cost	Priority
Address contamination		- develop a program to manage known contamination through remedial excavation or risk assessment	Contamination Management Program developed	High	Medium
Document spills if/when they occur		- linked to Environmental Monitoring Program - tracks known spills and is influenced by the Contaminated Sites Management Tool and the Spill Prevention and Response Plan - remediation and enhancement efforts may be required.	Spill Prevention and Response Plan/Process developed	Medium	Low
Waste Management					
Solid Waste Management Plan		- outline resources and procedures for waste diversion, burning and dumping - inform the Good Neighbour Law	Solid Waste Management Plan drafted and adopted	Medium	Medium
Community-wide spring and fall clean-up days		- organize regular community clean-ups, resulting in stewardship and education opportunities and a way to connect with other members	Spring and Fall Community Clean-ups organized annually	Medium	On going
Air Quality					
Air Quality Survey		- inventory of air quality contributors and concerns to assist in prioritizing response	Air Quality Survey complete, developing an inventory of concerns	Medium	Low
Monitoring Program		- data from survey used to develop a monitoring program - could align with regional plan	Air Quality Monitoring Program developed	Medium	Low

Task	Sub-Task	Description	Key Result	Estimated Cost	Priority
Fish and Fish Habitat					
Protection Strategy		- data collected in bio-inventory used to develop protection strategy	Development of on-reserve Fish and Fish Habitat Protection Strategy	Medium	Low
Erosion and Sediment Control Plan		- establish criteria for development to ensure fish and fish habitat is protected	Erosion and Sediment Control Plan developed	Medium	Low
Regional Advocacy		- participate in regional strategies to ensure off reserve activities are not impacting rights and title	Participation in regional initiatives	Low	On going
Wildlife and Habitat Protection					
Protection Strategy		- data collected in bio-inventory used to develop protection strategy	Development of on-reserve Wildlife and Habitat Protection Strategy	Medium	Low
Regional Advocacy		- participate in regional strategies to ensure off reserve activities are not impacting rights and title	Participation in regional initiatives	Low	On going
Invasive Species					
Invasive/noxious species inventory		- collect data during reserve-wide bio-inventory - informs the Invasive Plant Management Plan	Inventory of species and locations for monitoring spread or reduction	Low	High
Invasive Species Management Plan		- outlines management strategies for addressing invasive/noxious species	Invasive Species Management Plan developed and adopted	Medium	Low