

**Kimvar Enterprises Inc.
Big Bay Point Resort –Tree Clearing Monitoring Program Matrix - Tree Clearing Stage 1A**

Study/Report Reference	Component	Potential Impact	Proposed Mitigation Action	Monitoring Protocol			Reporting Protocol		Response to Monitoring Outcome
				Methods	Frequency / Timing	Duration	Content	Reporting Period	
Edge Management Plan Schollen & Company Inc.	Newly created forest edge resulting from tree clearing	<ul style="list-style-type: none"> Decline in health of trees at exposed forest edge Loss of forest edge trees due to wind throw Colonization of forest edge by non-native invasive species Exposure of hazard trees to public use areas Physical damage due to tree felling 	<ul style="list-style-type: none"> Installation of tree protection fence at limit of tree clearing Implementation of edge management plantings to achieve a more robust edge condition Identification and removal of hazard trees Contractor education seminar to provide instruction on clearing techniques and tree protection requirements 	<ul style="list-style-type: none"> Visual inspection of forest edges to assess condition of trees and note changes in tree health and composition of vegetation community Compilation of photographic inventory from consistent vantage points 	Twice yearly / Early summer and late fall	During construction period up to 3 years after exposure of new forest edge	<ul style="list-style-type: none"> Report characterizing conditions of trees at forest edge Map indicating location of hazard trees and invasive species Photographic inventory Response recommendations Report to be submitted to Town and LSRCA 	Annually	<ul style="list-style-type: none"> Remedial planting Removal of hazard trees Removal of invasive non-native vegetation
	Edge management plantings	<ul style="list-style-type: none"> Decline in health / failure of edge management plantings Breach of barrier fencing resulting in trampling / degradation of ground flora/trees 	<ul style="list-style-type: none"> After-care of planted vegetation Installation of paige wire barrier fence 	<ul style="list-style-type: none"> Visual inspection of plant material to identify stressed/failed vegetation Visual inspection of fence to identify breaches Compilation of photographic inventory from consistent vantage points 	Twice yearly / Early summer and late fall	3 years	<ul style="list-style-type: none"> Report and drawing indicating locations and species of failed vegetation and condition of trees Photographic inventory Response recommendations Report to be submitted to Town and LSRCA 	Annually	<ul style="list-style-type: none"> Replacement planting Repair of breaches of fencing Re-seeding to establish groundcover Enhanced after-care
	Temporary screen plantings	<ul style="list-style-type: none"> Decline in health / failure of temporary screen plantings 	<ul style="list-style-type: none"> After care 	<ul style="list-style-type: none"> Visual inspection of plant material to identify failed/stressed vegetation Compilation of photographic inventory from consistent vantage points 	Twice yearly / Spring and fall	Throughout duration of construction period	<ul style="list-style-type: none"> Letter report and drawing indicating location of stressed/failed species Response recommendations Report to be submitted to Town 	Annually	<ul style="list-style-type: none"> Replacement of failed trees Enhanced after-care

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Tree Clearing Plans Schollen & Company Inc. / SCS Consulting Group Limited	Trees / vegetation communities designated to be retained	<ul style="list-style-type: none"> Physical damage due to impact from tree removal equipment Root damage due to soil compaction Decline resulting from changes in drainage patterns / soil moisture regimes 	<ul style="list-style-type: none"> Erection and maintenance of tree protection fencing Minimization of disturbance to ground plane – stumps are not to be grubbed as part of the tree clearing process, thus no changes in drainage patterns or soil moisture regimes 	<ul style="list-style-type: none"> Visual inspection of tree protection fence to identify breaches of deficiencies Visual inspection of trees / vegetation communities to identify limb and/or bark damage Compilation of photographic inventory from consistent vantage points 	Sequential daily inspections to address full site on a weekly basis	Throughout period of active tree removal operations	<ul style="list-style-type: none"> Report describing: <ul style="list-style-type: none"> Findings of inspections with appropriate photographic documentation of impacts observed Remedial actions implemented Response recommendations Report to be submitted to Town 	Bi-weekly	<ul style="list-style-type: none"> Arboricultural care to minimize further damage to impacted trees Relocation / repair or reinforcement of tree protection fence to mitigate potential further impacts
	Newly created forest edge resulting from tree clearing	<ul style="list-style-type: none"> Decline in health of trees at exposed forest edge Loss of forest edge trees due to wind throw Colonization of forest edge by non-native invasive species Exposure of hazard trees to public use areas Physical damage due to tree felling 	<ul style="list-style-type: none"> Installation of tree protection fence at limit of tree clearing Implementation of edge management plantings to achieve a more robust edge condition Identification and removal of hazard trees Contractor education seminar to provide instruction on clearing techniques and tree protection requirements 	<ul style="list-style-type: none"> Visual inspection of forest edges to assess condition of trees and note changes in tree health and composition of vegetation community Compilation of photographic inventory from consistent vantage points 	Twice yearly / Early summer and late fall	During construction period	<ul style="list-style-type: none"> Report characterizing conditions of trees at forest edge Map indicating location of hazard trees and invasive species Photographic inventory Response recommendations Report to be submitted to Town and LSRCA 	Annually	<ul style="list-style-type: none"> Remedial planting Removal of hazard trees Removal of invasive non-native vegetation

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Tree Inventory and Assessment Schollen & Company Inc.	Trees / vegetation communities designated to be retained	<ul style="list-style-type: none"> Physical damage due to impact from tree removal equipment Root damage due to soil compaction Decline resulting from changes in drainage patterns / soil moisture regimes Impacts to root systems due to excavation, grading or servicing Requirements for limb removal to provide clearance from buildings and infrastructure Decline in health due to changes in soil moisture regimes 	<ul style="list-style-type: none"> Erection and maintenance of tree protection fencing Arboricultural care to remove limbs surgically prior to potential impact Implementation of site specific recommendations to mitigate impact on root zones and offset potential changes in soil moisture regimes Contractor education seminar to provide instruction on clearing techniques and tree protection requirements 	<ul style="list-style-type: none"> Visual inspection of tree protection fence to ensure integrity Visual inspection of trees / vegetation communities to identify damage to trees and root zones Compilation of photographic inventory to document findings of inspections 	Sequential daily inspections to address full site on a weekly basis	Throughout duration of construction	<ul style="list-style-type: none"> Report describing: <ul style="list-style-type: none"> Findings of inspections with appropriate photographic documentation of impacts observed Remedial actions implemented Response recommendations Report to be submitted to Town and LSRCA 	Bi-weekly	<ul style="list-style-type: none"> Arboricultural care to minimize further damage to impacted trees Relocation / repair or reinforcement of tree protection fence to mitigate potential further impacts Recommendation of alternative construction methods, equipment to minimize likelihood of impacts on root zones

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Reforestation / Compensation Plan Schollen & Company Inc.	Newly planted vegetation	<ul style="list-style-type: none"> Stress or failure of newly planted vegetation resulting from wind, drought, rodent damage or microclimate conditions Colonization by invasive non-native vegetation Physical damage due to deer / wildlife browsing 	<ul style="list-style-type: none"> After-care program including periodic watering, maintenance of rodent guards and installation of mulch Removal of non-native species 	<ul style="list-style-type: none"> Visual inspection to identify plants / vegetation communities exhibiting stress Photographic inventory to document findings of inspection Mapping that indicates the locations of stressed/failed vegetation and/or areas of non-native plant infestation 	Twice yearly / early summer and fall	2 years after planting	<ul style="list-style-type: none"> Letter report describing: <ul style="list-style-type: none"> Findings of inspections Requirements for replacement of failed plant material Recommendations for eradication of specific invasive species Recommendations for enhanced after care Report to be submitted to Town and LSRCA 	Annually	<ul style="list-style-type: none"> Replacement of failed plant material Implementation of supplementary after-care actions Eradication of invasive species through cutting, removal or herbicide application Installation of barrier fencing to limit deer browse