

Town of Banff Class Screening Project Report Form A-3
Sub-Class 3: Roads

COMPLETING A CLASS SCREENING PROJECT REPORT FORM

Forms can be obtained at Environmental Services at the Banff Town Hall or at the Environmental Assessment Office at Banff National Park Warden’s Office. Once completed, forms should be returned to one of these offices.

If you have questions about completing the form or the assessment process you should call the Environmental Assessment Office. The addresses and phone numbers for both the Town of Banff and Parks Canada’s Environmental Assessment Office are provided below. Incomplete or improperly completed forms will be returned. In some cases you may be asked to supply additional information or to do an individual environmental assessment.

Parks Canada’s Environmental Assessment Office will complete a review of the form within 14 days of its submission, and the proponent will be informed of the decision. If approved, a signed document, called the “Environmental Screening Approval Report,” will be mailed or faxed to you. A Town of Banff Development Permit may be required once the assessment has been approved.

Certain projects may not need an environmental assessment. Other projects may require a more detailed individual environmental assessment. Such projects are usually those that are located near environmentally sensitive areas, are within 30 m of a waterbody, are excluded from the MCSR, or those where unproven mitigations are to be used. If your project requires an individual environmental assessment, you will be advised. An individual environmental assessment may need to be prepared by an individual or firm with experience in environmental assessment.

The Environmental Assessment Office Banff Warden’s Office 238 Hawk St, Industrial Compound P.O. Box 900 Banff, Alberta T1L 1K2 Tel. (403) 762-1416	Environmental Services Banff Town Hall 110 Bear Street P.O. Box 1260 Banff, Alberta T1L 1A1 Tel. (403) 762-1215
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This CSPR form is to be completed by the project proponent or the proponent’s authorized agent for proposed road development activities within the Town of Banff or areas adjacent to the town. It is the responsibility of the proponent to ensure that all information provided in this form is accurate and correct. Incomplete or inaccurate forms will be returned. To assist you in the preparation of the form, the following attachments have been provided:

- **Attachment 1:** Mitigation Information for Road Projects (Table 6.3)
- **Attachment 2:** Map of Wildlife Corridors, Ecosites, and Archaeology (Figure 6.1)
- **Attachment 3:** Potentially Sensitive Sites in the Class Screening Area (Appendix B)

SUB-CLASS 3: ROADS

Projects included in Sub-Class 3 are the modification, maintenance and repair of existing roads within existing rights-of-way or easements (only applies when maintenance and repair activities could result in the likely release of a polluting substance into a water body; or involve the application of a dust control product or salt to the road, or of a pest control product to the areas adjacent to the road), and construction, modification, decommissioning and abandonment of sidewalks, boardwalks and parking lots up to 75 stalls. Construction of new roads and modification of roads outside of existing rights-of-way are not covered under the Model Class Screening Report (MCSR) and will require an individual environmental assessment. Any activities associated with parking lots over 75 stalls or construction of parking lots in previously undisturbed areas are not covered under the MCSR, and will require an individual environmental assessment.

SECTION 1: DESCRIPTION OF THE PROJECT

This section is designed to determine whether you have a project as defined in the Canadian Environmental Assessment Act that requires an environmental screening.

1. Please provide a **summary description of your project** on a separate sheet and attach. A site plan showing the proposed development must be attached. A one page site plan is acceptable.
 - a. Does your project involve (check all of the following that apply)?
 - i. The construction of a new road YES NO
 - ii. The maintenance or repair of a road? YES NO
 - iii. The construction, modification, decommissioning or abandonment of a sidewalk or parking lot up to 75 stalls? YES NO
 - b. If your project requires excavation:
 - i. Will the excavated material be re-used on site? YES NO
 - ii. What is the total quantity of material to be excavated? (specify units) _____
 - c. Will a new lease or new right-of-way be required to accommodate your project? YES NO
 - d. If your project is a maintenance or repair project, will it:
 - i. Result in the likely release of a polluting substance into a waterbody? YES NO
 - ii. Involve the application of oil or salt to a road, sidewalk, or parking lot? YES NO
 - iii. Involve the application of a control product (e.g., herbicide) to the areas adjacent to the road, sidewalk or parking lot YES NO

SECTION 2: LOCATION OF PROJECT

This section is designed to determine if your projects fits into Sub-Class 3 (Roads) of the Model Class Screening Report (MCSR).

2. If your project is located:
 - a. *Within* the town of Banff please provide:
Street Address:

Ecosite (initials and name, *e.g.*, Norquay $\frac{\text{NY3}}{8}$ Refer to Attachment 2):

- b. *Outside* the town of Banff:

If your project is located on the periphery of the town, or providing infrastructure to one of the areas listed below, please circle:

- Banff Rocky Mountain Resorts
- Rimrock Inn
- Upper Hot Springs
- Timberline Lodge
- Cave and Basin
- Banff Gondola

SECTION 3: *Continued*

- e. Are any historic or archaeological resources directly or indirectly affected by your project (see Attachment 2)? YES NO UNSURE
- f. Will your project cause any impacts to the environmental or cultural/heritage setting that have not been identified in Table SC-3 (below)? YES NO
- g. If you answered **YES** to Question 3(f), briefly describe those impacts not already identified. Please attach a separate sheet to this form, if necessary.

Table SC-3: Potential environmental effects from roads projects

<ul style="list-style-type: none">• Dust production• Decrease in air quality• Runoff/sedimentation of waterbodies• Soil and water contamination• Soil compaction and erosion• Slope failure• Loss of topsoil• Damage/loss of vegetation• Changes in noise/visual quality	<ul style="list-style-type: none">• Habitat loss, fragmentation• Wildlife sensory disturbance• Encroachment on wildlife movement corridors• Increased traffic• Risk to public safety• Waste production• Hazardous materials• Use of resources• Impact to historical or archaeological resources
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SECTION 4: MITIGATIONS

This section is designed to identify what mitigations will be used to remove or reduce the potential impacts identified above, and to determine the potential for impacts to remain after the mitigations are implemented.

- 4.
- a. Will Standard MCSR mitigations as described in Attachment 1 be used? YES NO UNSURE
- b. Will any environmental mitigations be undertaken *other than or in addition to* those listed in Attachment 1? YES NO UNSURE

If you answer **YES** or **UNSURE** to 4(b), please submit detailed information on your proposed mitigations on a separate sheet along with this form.

- c. Will your project involve blasting, dredging, surface or groundwater dewatering, excavation of contaminated soil or disposal of any hazardous materials? If so, please specify on a separate sheet. YES NO
- d. Will your project require geo-technical investigation - drilling, soil sampling, - to determine soil capacity, contamination, groundwater depth etc? YES NO
- e. If you answer **YES** to 3(f), and you identified additional potential impacts in 3(g), please describe additional mitigations to be followed to address those impacts. Please attach a separate sheet if necessary.

SECTION 5: COMPLIANCE MONITORING

This section is designed to determine how you will ensure mitigations will be followed during your project.

- 5.
- a. Will an environmental monitor be available on site to ensure the mitigation measures described in Attachment 1 and Section 4 are implemented? YES NO
- b. Please indicate those groups/individuals you have informed about your project.

SECTION 6: APPLICATION SIGNATURE

As the developer of the proposed project or his/her authorized agent, I guarantee that to the best of my knowledge all information provided here is complete, correct and accurate.

Signature:	Date:
Name:	Phone:
Address:	

SECTION 7: FOLLOW-UP PROGRAM

(Parks Canada to complete)

7. a. Is a follow-up program required for this project? YES NO

If you answered **YES**, describe any project specific follow-up activities that are warranted to verify the environmental effects or the effectiveness of mitigation measures. Describe responsibilities for follow-up activities.

SECTION 8: SIGNIFICANCE

(Parks Canada to complete)

8. a. Is the project likely to cause significant environmental effects if all of the mitigations are followed?

NEGLIGIBLE LOW MED HIGH

Note: This form to be attached to the Banff National Park Environmental Screening Approval Report Form.

Attachment 1 Sub-Class 3: Mitigations for reducing impacts from Road, Sidewalk, Boardwalk and Parking Lot Projects

Activity	Potential Impacts	Mitigation Measures
<i>Pre-Planning</i>		
General activities	Runoff / sedimentation; Soil contamination	<ul style="list-style-type: none"> • Prepare an Emergency Response Plan for the worst case, i.e., heavy rainfall and runoff events, high winds, spills, fires, etc. • In the event of emergency operations (as defined in Section 6.10 of the MCSR), call 911. The Warden Dispatch may also be contacted (available 24 hours/day) at (403) 762-4506 or the Wardens Office at (403) 762-1470 to notify of any emergency procedures required. • Ensure all activities are conducted at least 30 m from waterbodies.
	Dust production	<ul style="list-style-type: none"> • Have a water source available to wet down exposed soil and dry areas.
	Wind and water erosion	<ul style="list-style-type: none"> • Prepare a satisfactory Sediment and Erosion Control Plan covering all construction and restoration periods. • Acquire necessary sediment control equipment, (i.e., straw bales, landscaping fabric, sediment fences, etc.) and install prior to construction. • Extra planning should be used for areas with silty deposits (VL3 and VL4) and sloped areas with sandy deposits (see Figure 5.1).
	Compaction of soils	<ul style="list-style-type: none"> • Identify soils susceptible to compaction (fine textured and organic soils) • Wherever possible, use equipment of low bearing weight, low PSI tires, or tracked vehicles, especially in sensitive sites.
	Slope failure	<ul style="list-style-type: none"> • Assess slope stability (based on slope length, soil texture, steepness, soil depth) and adjust activities to avoid these areas if possible. Use appropriate setbacks. • Pay particular attention when planning for slopes of Class 6 (15-30%) or greater, especially where soils are shallow and likely to move with disturbance.
	Habitat loss and fragmentation or encroachment on wildlife movement corridor	<ul style="list-style-type: none"> • Identify wildlife habitat that may be impacted by activities and avoid sensitive areas. • Identify and avoid wetlands. • Ensure only necessary vegetation is removed and delineate areas to be avoided with biodegradable flagging tape and/or temporary fences.

Attachment 1 Sub-Class 3: Mitigations for reducing impacts from Road, Sidewalk, Boardwalk and Parking Lot Projects – *Continued*

Activity	Potential Impacts	Mitigation Measures
General activities (continued)	Sensory disturbance and mortality of wildlife	<p>When working adjacent to natural areas:</p> <ul style="list-style-type: none"> • According to the wildlife that may be present, schedule high noise level activities and other intrusive construction activities to avoid critical life stages (breeding, nesting, rearing, migration). Consult with Parks Canada (403-762-1416) to discuss any localized wildlife concerns. • Confine “noise” activities to hours set out in Town of Banff Noise Bylaw. • Consider posting wildlife signs to reduce vehicle speeds and increase driver awareness near construction areas where wildlife mortality has or is likely to occur. • Educate workers to not harass or attract wildlife, keep the site free of food scraps, and dispose of garbage in bear proof containers.
	Disturbance of archaeological resources	<ul style="list-style-type: none"> • Determine whether there are archaeological sites in the area (see Figure 6.1). • Consult with Parks Canada (403-762-1416) if sites are identified. • If potential archaeological sites may be subject to ground disturbance, then activities should be adapted to avoid them. • Educate workers to stop work immediately and to notify site supervisor upon finding any archaeological artefacts.
	Public safety	<ul style="list-style-type: none"> • Outline traffic control measures and assess the need for flagging personnel. • Call utility line companies to identify infrastructure locations (Alberta OneCall: 1-800-242-3447).
	Reduced aesthetics	<ul style="list-style-type: none"> • Evaluate the site layout, access routes and construction activities to minimize their visual impact. • Plan work schedule to confine “noise” activities to hours set out in Town of Banff Noise Bylaw. • Work should be conducted during periods of low park visitation to reduce noise and visual impacts

Attachment 1 Sub-Class 3: Mitigations for reducing impacts from Road, Sidewalk, Boardwalk and Parking Lot Projects – *Continued*

Activity	Potential Impacts	Mitigation Measures
<i>Modification of Roads and Construction, Modification, Decommissioning and Abandonment of Sidewalks, Boardwalks and Parking Lots</i>		
Grading and gravel resurfacing; Material stripping, excavation, subgrade repair;	Dust production / aesthetics	<ul style="list-style-type: none"> • Wet down dry, exposed soils, particularly during windy periods. • Ensure materials being stored or transported are covered with tarps or equivalent material. • Minimize grading and excavation on windy days to limit dust production. • Avoid spillage and excess applications.
Road shoulder modifications; Replace or modify culverts and ditches; Re-surfacing (asphalt)	Runoff / sedimentation (through intermittent drainage pathways including storm sewer systems)	<p>Particularly areas with slope class of 5 (5-15%) or greater and sites close to water.</p> <ul style="list-style-type: none"> • Wet down or cover stockpiles with polyethylene sheeting, tarps, or vegetative cover. • Minimize vegetation cover removal. • Filter or settle out sediment before the water enters any drainage pathway; including stormwater systems. • Control overland flow up gradient and down gradient of exposed areas by use of diversion ditches, bales, vegetative filter strips, and/or sediment traps.
	Wind and water erosion	<p>All Ecosites, especially VL3 and VL4 in steeply sloped areas, and sloped areas with sandy loam/loamy sand soils for water erosion (see Figure 6.1):</p> <ul style="list-style-type: none"> • Protect exposed soils with coarse granular materials, mulches, or straw along drainage pathways. • Cover fills or stockpiles with polyethylene sheeting, tarps, or vegetative cover. • Line steep ditches with filter fabric, rock or polyethylene lining to prevent channel erosion.
	Contamination from runoff of poorly adhered seal coat	<ul style="list-style-type: none"> • Only apply seal coat to dry surface and not prior (within 24 hrs.) or during rainfall.
	Sensory disturbance	<ul style="list-style-type: none"> • According to the wildlife that may be present, schedule high noise level activities and other intrusive construction activities to avoid critical life stages (breeding, nesting, rearing, migration). Consult with Parks Canada (403-762-1416) to discuss any localized wildlife concerns. • Educate workers to not harass or attract wildlife, keep the site free of food scraps, and dispose of garbage in bear proof containers.

Attachment 1 Sub-Class 3: Mitigations for reducing impacts from Road, Sidewalk, Boardwalk and Parking Lot Projects – *Continued*

Activity	Potential Impacts	Mitigation Measures
Post installation and replacement	Sensory disturbance and mortality to wildlife	<ul style="list-style-type: none"> See mitigations for “General activities”.
Painting lines	Contamination from accidental spills	<ul style="list-style-type: none"> Spill contingency plans, equipment and supplies will be present on-site at all times and employees trained in their use. Paints should be selected that have minimal amounts of potentially harmful substances, particularly water soluble organic chemicals, lead and other metals. Rust inhibiting paints should be chosen over barrier types of paints to reduce the total volume of paint required over the long term. Hand painting is preferred over spray painting. Where sprayers are used, they must be properly adjusted to minimize the amounts of paint lost to overspray.
Sidewalk, curb and guttering installation	Reduced aesthetics	<ul style="list-style-type: none"> See mitigations under “General activities”.
Light installation (10 or more)	Runoff / sedimentation	<ul style="list-style-type: none"> Light installations requiring small excavations for pre-formed concrete bases should minimize the amount of disturbed soil. Minimize the time that borrow is exposed and the excavation remains open. If deemed necessary, use site specific erosion control methods (see mitigations for “Grading and gravel resurfacing”.) Do not schedule work during wet weather
	Reduced aesthetics	<ul style="list-style-type: none"> See mitigations under “General activities”.
Maintenance and Repair of Roads		
Patching	Runoff of poorly adhered seal coat	<ul style="list-style-type: none"> Only apply seal coat to dry surface and not prior (within 24 hrs.) or during rainfall
Storage and application of road salts and abrasives	Salt contamination/ salt impact on vegetation	<ul style="list-style-type: none"> Store salt under dry shelter, away from wind or water erosion on impervious platform. Ensure no runoff from storage of salt to soil or water. <p>For dangerous locations:</p> <ul style="list-style-type: none"> Minimize the application rate of salt to the road. Restrict application of salt (including liquid deicer) to the traveled surface of the road, and ensure calibration is tightly controlled. Salt-minimizing measures include pre-wetting of salt; calibration of spreaders; combined use with sand and gravel; early snow removal from roads
	Contamination from accidental spills	<ul style="list-style-type: none"> Prepare an appropriate Spill Response Plan. In the event of emergency operations (as defined in Section 6.10 of the MCSR), call 911. The Warden Dispatch may also be contacted (available 24 hours/day) at (403) 762-4506 or the Wardens Office at (403) 762-1470 to notify of any emergency procedures required.

Attachment 1 Sub-Class 3: Mitigations for reducing impacts from Road, Sidewalk, Boardwalk and Parking Lot Projects – *Continued*

Activity	Potential Impacts	Mitigation Measures
Storage and application of road salts and abrasives (continued)	Attraction of wildlife to roads (salt) causing mortality	<ul style="list-style-type: none"> • Minimize the application rate of salt to the roads, particularly in proximity to wildlife corridors. • Restrict salt to the traveled surface of the road. • Reduce speed limits.
Snow removal and storage	Salt contamination	<ul style="list-style-type: none"> • Accumulated snow contaminated with salt should only be disposed at designated areas away from sensitive vegetation and drainage pathways. • Dispose of snow in designated Parks Canada snow dump. • Minimize the application rate of salt to the roads, and ensure the calibration is tightly controlled so salt application is restricted to the road surface.
Vegetation management	Contamination from fertilizers and herbicides	<ul style="list-style-type: none"> • Accurately assess the need for chemicals during right-of-way maintenance. Use products and methods identified in Parks Canada Management Directive 2.4.1 (1985). • Avoid herbicide/fertilizer use in proximity to, or where run-off may reach waterbodies. • Ensure adjacent natural areas are not affected by herbicide use.
	Damage to adjacent vegetation, loss of native vegetation	<p>To protect undeveloped areas adjacent to development site:</p> <ul style="list-style-type: none"> • Minimize area cleared. Clearly mark area to be cleared with biodegradable flagging tape and/or temporary fences. • Ensure vertical (Rocky Mountain) juniper, Douglas fir and limber pine are protected. • Hoarding around trees to be retained must be installed beyond the tree's drip line prior to commencement of site work. • A development permit from the Town of Banff Planning and Development Division (403-762-1215) is required before removing any vegetation. • Ensure excavated material does not damage or bury plant material that is to be retained on the site or in adjacent areas. • Trees are to be cut so that they fall inside the cleared perimeters. • Care must be taken during grubbing and stripping to ensure that trees and roots on the edge of the cleared area are not disturbed. • Minimize grubbing in all areas. Grubbing and stripping may not be permitted on steep slopes.
Dust control (outside town)	Runoff of CaCl into water bodies	<ul style="list-style-type: none"> • Avoid spillage and excess applications. Use water, when possible.

Attachment 1 Sub-Class 3: Mitigations for reducing impacts from Road, Sidewalk, Boardwalk and Parking Lot Projects – *Continued*

Activity	Potential Impacts	Mitigation Measures
Site Reclamation and Restoration		
Grading	Dust production	<ul style="list-style-type: none"> • Wet down dry, exposed soils, particularly during windy periods. • Ensure materials being stored or transported are covered with tarps or equivalent material.
	Runoff/ sedimentation	<ul style="list-style-type: none"> • Halt grading on exposed soil during events of high rainfall intensity and runoff. Consult the Sediment and Erosion Control Plan. • Cover stockpiles of soil with polyethylene sheeting, tarps, or vegetative cover. Where possible, establishment containment structures to trap runoff.
	Wind and water erosion	<p>Particularly in areas with silty deposits (VL3 and VL4) and sloped areas with sandy deposits (see Figure 6.1):</p> <ul style="list-style-type: none"> • Protect exposed soils with coarse granular materials, mulches, or straw along drainage pathways. • Recontour slopes to pre-disturbance conditions.
Revegetation	Runoff / Sedimentation (through intermittent drainage pathways including storm sewers)/erosion	<ul style="list-style-type: none"> • Initiate replanting of disturbed areas immediately after construction is completed. • For every tree cleared, plant at least two native trees. • Protect exposed soils with coarse granular materials, mulches, or straw along drainage pathways.
	Compaction of soils	<ul style="list-style-type: none"> • Cultivate affected areas before reclaiming, especially areas with fine textured or organic soils.
	Contamination from fertilizers and herbicides	<ul style="list-style-type: none"> • Accurately assess the need for chemicals during site revegetation. Use products and methods identified in Parks Canada Management Directive 2.4.1 (1985). • Do not use fertilizers and herbicides in areas where residue or runoff may enter a waterbody or drainage pathway. • Do not over water.
	Weed invasion	<ul style="list-style-type: none"> • Revegetate exposed areas at first opportunity. • Ensure topsoil is clean and weed free. If clean fill is unavailable, check on weeds or treat as needed for 3 years following landscaping and revegetation. • Revegetate with Parks Canada approved grass seed mix or the Town seed mix for landscape rehabilitation (see Appendix C). • Monitor the site to ensure appropriate weed control for two years following landscaping (applicable to construction crews only). • Follow Parks Canada Integrated Pest Management Plan 2.4.1 for weed control.

Attachment 1 Sub-Class 3: Mitigations for reducing impacts from Road, Sidewalk, Boardwalk and Parking Lot Projects – *Continued*

Activity	Potential Impacts	Mitigation Measures
General Activities^(a)		
Materials handling/storage	Dust production	<ul style="list-style-type: none"> • Wet down dry, exposed soils or cover with tarps. • Ensure materials being stored or transported are covered with tarps or equivalent material.
	Damage to adjacent vegetation	<ul style="list-style-type: none"> • Excavated material will not be permitted to damage or bury plant material that is to be retained on the site or in adjacent areas. • If tree damage does occur, a horticultural sealant will be applied to the tree damage as soon as possible. Diseased vegetation should be disposed of through burning. A burning permit must be obtained. • Protect undisturbed land by only stockpiling materials on heavy canvas or polypropylene tarpaulins to protect native vegetation. Excavated material should not be permitted to damage or bury plant material that is to be retained on the construction site or in adjacent areas.
	Decreased aesthetics (visual) and public safety	<ul style="list-style-type: none"> • Materials will be stored within the confines of the work site.
Equipment operation and maintenance	Decrease in ambient air quality due to emissions	<ul style="list-style-type: none"> • Ensure all equipment is properly tuned, free of leaks, in good operating order, and fitted with standard air emission control devices. • Minimize idling of engines at all times.
	Dust production	<ul style="list-style-type: none"> • Wet down dry and dusty roads. • Do not use oil-based dust suppressants. • Reduce speeds. • Ensure materials being stored or transported are covered with tarps or equivalent material.

Attachment 1 Sub-Class 3: Mitigations for reducing impacts from Road, Sidewalk, Boardwalk and Parking Lot Projects – *Continued*

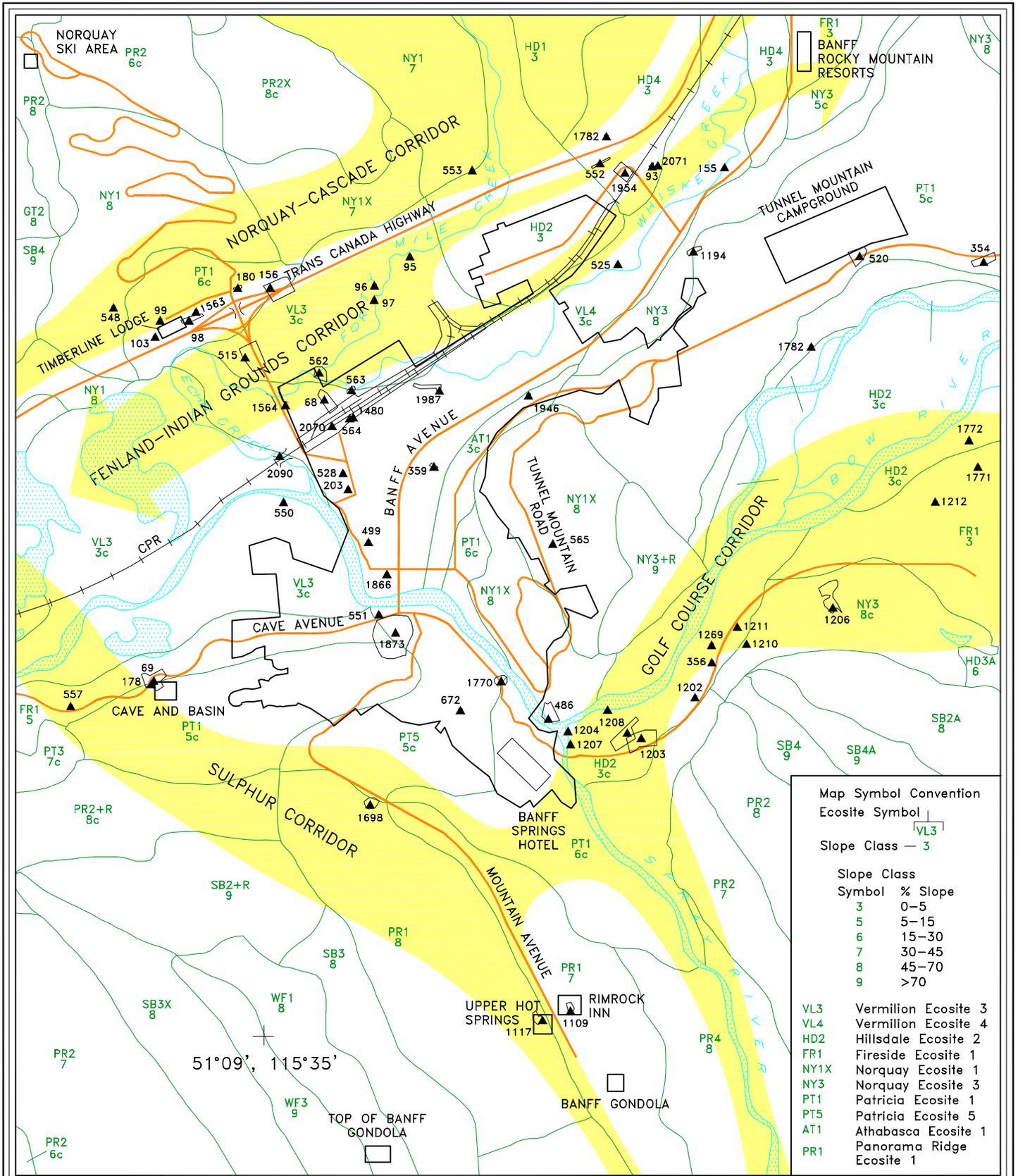
Activity	Potential Impacts	Mitigation Measures
Equipment operation and maintenance (continued)	Contamination of soil and water from accidental spill	<ul style="list-style-type: none"> • Prepare an appropriate Spill Response Plan. Prepare an appropriate Spill Response Plan. In the event of emergency operations (as defined in Section 6.10 of the MCSR), call 911. The Warden Dispatch may also be contacted (available 24 hours/day) at (403) 762-4506 or the Wardens Office at (403) 762-1470 to notify of any emergency procedures required.. • Avoid work in high risk areas, particularly in areas of high water table, steeply sloped sites or in close proximity to streams. • Have spill containment equipment is on-hand and all personnel are trained in their use. • Ensure all construction equipment is free of leaks from oil, fuel or hydraulic fuels. • In-stream crossing of any waterbody (including wetlands) by construction equipment, or the use of such equipment within waterbodies is strictly prohibited unless prior approval has been confirmed by Parks Canada. • Designate refuelling areas at least 100 m away from any water body. Refuelling sites will be bermed with an impermeable liner to contain 125% of the anticipated fuel quantity. Any contaminated rainwater will be moved out of the park. • Refuelling activities should not be conducted where run-off could carry contaminants into drainage pathways (including storm sewers). • Dispose of contaminated materials at provincially certified disposal sites outside of the Park. No treatment of contaminated soils (e.g., bioremediation) is allowed in the Park. All applicable documentation demonstrating proper disposal should be obtained.
	Compaction of soils	<ul style="list-style-type: none"> • Restrict vehicular travel and other equipment operation to the construction site and approved access routes. • Vehicle parking will be restricted to specialized areas on the construction site. • Minimize or halt construction traffic during wet conditions when the soil shows signs of ponding or rutting. • In sensitive areas, if possible, use equipment which minimizes surface disturbance including low ground pressure tracks/tires, blade shoes and brush rake attachments.
	Damage to adjacent vegetation	<p>Undeveloped areas adjacent to development site:</p> <ul style="list-style-type: none"> • Careful machine operation is required to ensure that damage to surrounding vegetation does not occur. • Excavated material must not be permitted to bury plant material that is to be retained. Snow fences may be used to prevent excavated material escaping into the surrounding forest.

Attachment 1 Sub-Class 3: Mitigations for reducing impacts from Road, Sidewalk, Boardwalk and Parking Lot Projects – *Continued*

Activity	Potential Impacts	Mitigation Measures
Equipment operation and maintenance (continued)	Weed invasion	<ul style="list-style-type: none"> • All construction equipment from outside Banff National Park will be steam cleaned prior to arrival to minimize the risk of introducing weeds. • Construction equipment from outside the Park will not be washed while in the Park.
	Sensory disturbance to wildlife	<p>All undeveloped areas and areas bordering natural habitat, especially wildlife movement corridors and natural wetlands:</p> <ul style="list-style-type: none"> • Use existing roadways, pathways and previously disturbed areas for site access and travel within the site. • Educate workers not to enter wildlife corridors. • Confine “noise” activities to hours set out in Town of Banff Noise Bylaw.
	Increased traffic levels	<ul style="list-style-type: none"> • Time construction activities to minimize vehicle conflicts on access roads and/or use flagging personnel.
Waste management (general)	Contamination of soil and water from accidental spill or improper disposal	<ul style="list-style-type: none"> • No rock, silt, cement, grout, asphalt, petroleum product, lumber, vegetation, domestic waste, or any deleterious substance shall be placed or allowed to disperse into any stream, river, pond, storm or sanitary sewer, or other water course.
	Aesthetics (visual and smell)	<ul style="list-style-type: none"> • Collect all waste, store appropriately and dispose trade waste at Bow Valley Waste Management Commission’s Class III landfill, and household garbage at the Waste Transfer Station. • All garbage and food must be stored in bear-proof bins as per the Banff Waste Bylaw. • Construction sites must undergo thorough clean-up, including removal of general litter, survey stakes and flagging tape at project completion.

Attachment 1 Sub-Class 3: Mitigations for reducing impacts from Road, Sidewalk, Boardwalk and Parking Lot Projects – *Continued*

Activity	Potential Impacts	Mitigation Measures
Hazardous materials collection and handling	Contamination of soil or water	<ul style="list-style-type: none"> • Prepare an appropriate Spill Response Plan. Prepare an appropriate Spill Response Plan. In the event of emergency operations (as defined in Section 6.10 of the MCSR), call 911. The Warden Dispatch may also be contacted (available 24 hours/day) at (403) 762-4506 or the Wardens Office at (403) 762-1470 to notify of any emergency procedures required. • All toxic/hazardous materials will be identified during demolition and will be handled as required under the Canadian Environmental Protection Act, Transportation of Dangerous Goods Act and Workplace Hazardous Materials Information Service. • Dispose of contaminated materials at provincially certified disposal sites outside of the Park (i.e., at Bow Valley Waste Management Commission’s Class III landfill). No treatment of contaminated soils (e.g., bioremediation) is allowed in the Park. All applicable documentation demonstrating proper disposal should be obtained. Alternatively, use the paint exchange program in Banff. • All hazardous materials and wastes will be clearly labelled with WHMIS labels and information. • Spill contingency plans, equipment and supplies will be present on-site at all times and employees trained in their use. • All fuels, oils, lubricants and other petrochemical products will not be stored within 100 meters of any waterbody (including wetlands). • Do not store fuels, lubricants, solvents, paints, and other chemicals on site overnight except within construction trailers secured with lock and key. Storage should be on a bermed, impervious site (secondary containment). Permits are required from Banff National Park or Town of Banff. • No rock, silt, cement, grout, asphalt, petroleum product, lumber, vegetation, domestic waste, or any deleterious substance shall be placed or allowed to disperse into any stream, river, pond, storm or sanitary sewer, or other water course.



Map Symbol Convention

Ecosite Symbol 

Slope Class — 3

Slope Class	
Symbol	% Slope
3	0-5
5	5-15
6	15-30
7	30-45
8	45-70
9	>70

VL3	Vermilion Ecosite 3
VL4	Vermilion Ecosite 4
HD2	Hillsdale Ecosite 2
FR1	Fireside Ecosite 1
NY1X	Norquay Ecosite 1
NY3	Norquay Ecosite 3
PT1	Patricia Ecosite 1
PT5	Patricia Ecosite 5
AT1	Athabasca Ecosite 1
PR1	Panorama Ridge Ecosite 1

LEGEND

	Local Study Area (Town of Banff and Outlying Areas)
	Road
	Railroad
	Available Wildlife Corridors
	Ecosites
	Archaeological Site and Sensitive Area

Attachment 2
Ecological Information within the Class Screening Area (Sub-Class 3)

SOURCE: POPE (2001)

Scale 1:30,000
 Metres





Attachment 3

Potentially Sensitive Sites in the Class Screening Area

The following represents sites that are potentially sensitive to disturbance. Considerations of these sensitivities should be included in future development plans.

1. General Wetlands and Riparian Habitats

Whiskey Creek and associated springs. Middle Springs Creek and associated springs, Bow River, Forty Mile Creek, Forty Mile/Echo/Whiskey Creek/CPR 'Y' Wetlands, Discharge zones along the toe of Sulphur Mountain, Stables Wetlands (Recreation grounds to Cave and Basin).

2. Sand Dune and Beach Ridges

Fenland, Recreation Centre lands, lands including the train station and extending into residential areas SE of the station into downtown blocks past Rundle Church. Rocky Mountain Resort/new corrals/Brewster Doughnut Area.

3. Stream Levees

Bow River, Forty Mile/Echo Creek

4. Fish Spawning Sites

Forty Mile Creek, Bow River, Whiskey Creek, CPR 'Y'

5. Waterfowl Habitat

Whiskey Creek behind Cougar Street, Bow River, Forty Mile/Echo/Whiskey Creek/CPR 'Y' Wetlands, Stable Wetlands.

6. Beaver Habitat

Potential beaver habitat should be identified and projects designed to minimize the disruption of habitat. Potential sites include the CPR 'Y' and associated lands, Whiskey Creek, Fenlands, Bow River Levees, Horse Bams/Cave and Basin Wetlands.

7. Avifauna

Some parts of the class screening area are used by breeding and migrating birds. The most significant bird habitat is the shrub/wetland area on the Bow River flood plain adjacent to the Recreation Area (Edwards 1988). Other sites should also be reviewed.

8. Vegetation

Disturbance of the following species should be avoided whenever possible:

- Limber Pine: Tunnel Mountain, Hoodoos.
- Douglas Maple: North slope of Tunnel Mountain.
- Douglas Fir: most dry forested sites.

- Aspen: various locations.
- Balsam Poplar: various locations, especially in the vicinity of stable wetlands.

9. Viewpoints/Viewscapes

Surprise Corner, Bow River views, views from the Banff Springs Hotel, Mt. Norquay and Tunnel Mountain Drive.

10. Incidentals

- Fossils: sites should be surveyed for the presence of fossils; known and potential sites include Norquay Road, Bow Falls outcrops. Tunnel Mountain trail, Mt. Rundle talus rocks near the climbing practice rock and the landscaping rock in the recreation grounds play areas. Any exposure/application of "Rundle Rock" should be examined for fossils.
- Glacial Deposits: evidence of glacial and periglacial activity should be preserved as interpretive features. Features include: flutings along upper Tunnel Mountain Trail; till and outwash exposure at Grizzly Street; and outwash gravels at Compound Road turnoff from Banff Avenue.
- Bedrock Exposures offer an opportunity to interpret the geologic history of Banff National Park. Potential sites include: Bow Falls areas. Tunnel Mountain, Drive rock cuts; Buffalo Street; Norquay Road; and. Vermilion Lakes Drive older stone fences.
- Historical features sites should be reviewed for potential historical/archaeological features.