

Request for Proposals – On-line Interactive Risks & Benefits Calculator

Appendix 1

This will be an **online interface** linked to a **database**. This document is colour coded – each colour is connected to the same colour further in the document.

Opening page of the **online interface** will look like this:

<p>New Brunswick Risks & Benefits Calculator</p> <p>Check out recent assessments: [project names, grades, and first 100 words for the five most recent project assessments]</p>	<p>This tool allows you to assess development projects, taking into account environmental, social and economic factors.</p> <p>Assess a project! Search assessments.</p> <p>How it works: Is a quarry being dug near your community? Is the forest next to your house being cleared for a new housing development?</p> <p>You've come to the right place!</p> <p>This tool will help you see who is benefiting...and who is risking it all.</p> <p>You can either assess a project or look at previous assessments.</p>
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The **Assess a project** form will look like this:

Assess a Project

Project Name: [drop-down menu of already assessed projects, plus one option for “New project.” If they pick “New project,” they will input the project name]

[If they choose a project that has already been assessed, show the previous answers for this page and allow user to change as needed; if they choose a new project, they fill out all the questions]

Location: _____ [uses google maps so people can search for projects in their area]

Project Start Date: [calendar where they choose the date]

Project End Date (if applicable): [calendar where they choose the date]

Project Type: [drop-down menu with the following choices]

- Agriculture
- Building & property development
- Energy
- Forest
- Freshwater
- Marine
- Mine or quarry
- Recreation
- Transportation
- Waste

Investment

Lifetime of the project: _____

Government investment in the project: _____

Monetary investment required of the proponent by the province or the municipality: _____

Entire amount of money invested by proponent:

Was a federal environmental assessment conducted on this project? _____ (yes/no drop down)

Was a provincial environmental impact assessment conducted on this project? _____ (yes/no drop down)

Completed by:

Name: _____

Group: _____

Email (this information will not be shared): _____

Telephone (this information will not be shared): _____

Next page [hyperlink]

Identifying Risks

Does this project pose risks for:
[have the list of items from [the table](#), with check-boxes next to each one.
The user can check off more than one]

Next page [[hyperlink](#)]

Risks

[For each item that was checked in the previous section, repeat the following series of questions, with a new page for each item]

What are the risks to [first item checked]?
[box in which people can list a number of different risks]

How many people are affected by the risks to [First item checked]? [drop-down menu with the following options; they can only choose one]

- more than 10,000
- 1000-10,000
- 100-1000
- 10-100
- less than 10
- not applicable

How many wildlife populations are affected by the risks to [First item checked]? [drop-down menu with the following options; they can only choose one]

- less than 2 wildlife populations
- 2-5 wildlife populations
- 5-10 wildlife populations
- 10-15 wildlife populations
- more than 15 wildlife populations
- not applicable

How many species-at-risk are affected by the benefits to [First item checked]? [drop-down menu with the following options; they can only choose one]

- 0
- 1
- 2
- 3
- 4+
- not applicable

How widespread is the risk to [First item checked]? [drop-down menu with the following options; they can only choose one]

- more than 1000 km² affected
- 100-1000 km² affected
- 10-100 km² affected

1-10 km² affected
less than 1 km² affected

Over what timeframe will the risks to [First item checked] manifest? [drop-down menu with the following options they can only choose one]

More than 5 years
1 to 5 years
up to 1 year

Which group shoulders the risks to [First item checked]? [drop-down menu with the following options; they can choose more than one]

ecosystem
wildlife
general public
municipality
provincial government
federal government
local businesses
multi-national corporations
small-scale industry
large-scale industry

Who, in particular, shoulders the risks to [First item checked]? [for each group identified in the previous question, they will get a space to fill in something more specific.]

Next page [hyperlink]

For example,
herons, J. D. Irving
Ltd., school children

Identifying Benefits

Does this project present benefits for for:
[have the list of items from **the table**, with check-boxes next to each one.
The user can check off more than one]

Next page [hyperlink]

Benefits

[For each item that was checked in the previous section, repeat the following series of questions]

What are the benefits to [First item checked]?
[box in which people can list a number of different benefits or none at all.
If they don't list any, skip the remaining questions for this item and move on to the next one]

How many people are affected by the benefits to [First item checked]?
[drop-down menu with the following options; they can only choose one]

- more than 10,000
- 1000-10,000
- 100-1000
- 10-100
- less than 10
- not applicable

How many wildlife populations are affected by the benefits to [First item checked]? [drop-down menu with the following options; they can only choose one]

- less than 2 wildlife populations
- 2-5 wildlife populations
- 5-10 wildlife populations
- 10-15 wildlife populations
- more than 15 wildlife populations
- not applicable

How widespread are the benefits to [First item checked]? [drop-down menu with the following options; they can only choose one]

- less than 1 km² affected
- 1-10 km² affected
- 10-100 km² affected
- 100-1000 km² affected
- more than 1000 km² affected

Over what timeframe will the benefits to [First item checked] manifest?
[drop-down menu with the following options; they can only choose one]

- up to one year
- one to five years
- more than five years

<p>Which group reaps the benefits to [First item checked]? [drop-down menu with the following options; they can choose more than one]</p> <ul style="list-style-type: none"> ecosystem wildlife general public municipality provincial government federal government local businesses multi-national corporations small-scale industry large-scale industry <p>Who, in particular, reaps the benefits to [First item checked]? [for each group identified in the previous question, they will get a space to fill in something more specific.]</p> <p style="text-align: center;">Next page [hyperlink]</p>	<p>For example, herons, J. D. Irving Ltd., school children</p>
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<p>Last page!</p> <p>These risks and benefits I identified are [drop down menu with these choices]:</p> <p>ANTICIPATED as the project has not yet started.</p> <p>ACTUAL as the project has already begun.</p> <p>Submit – [Takes user to a screen to review what they’ve put in. Once they’ve confirmed that there are no mistakes, takes them to a screen which gives the overall grade for the development project.]</p>	
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The **Search assessments** page will look like this:

<p>Search Assessments</p> <p>Search by [they can fill out more than one field or only one]:</p> <ul style="list-style-type: none"> Project Name (drop-down menu with project names) Start Date End Date Location [they would put in a location and it would come back with any within 50 km of that location – using googlemaps] Which Group Shoulders Risks (list of groups) Which Group Reaps Benefits (list of groups) Grade <p style="text-align: center;">Submit</p>	
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When someone searches, they will first get a list of all the projects that meet their search criteria. They will be able to click each project to see it more in detail. For a project with only one assessment done, it will look like this:

<p>[Project Name] [GRADE]</p> <p>Location: Project Start Date: Project End Date: Project Type:</p> <p>[grades only listed if there is a grade for that section] Community: Education: Health: Food: Energy: Transportation: Oceans & Freshwater: Forests, Nature & Wildlife:</p> <p>Investment Lifetime of the project: Government investment in the project: Monetary investment the proponent is required by the province or the municipality: Total monetary investment by proponent:</p> <p>Completed by Name: Group:</p> <p>Full assessment</p> <p>Comments: [from comments field]</p> <p>adsfasasdadasda by Name on Date.</p>	<p>Have a different viewpoint? Assess this project!</p> <p>Comment on this project: [comment box]</p> <p>Your name: _____</p> <p>Submit</p>

If they click on **Full assessment**, they would see

<p>[Project Name] [GRADE]</p> <p>Risks</p>	<p>Have a different viewpoint? Assess this project!</p>
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Risk	People affected	Wildlife populations affected	Area affected	Timeframe	Who risks?	Comment on this project: [comment box] Your name: _____ – Submit
[from Risks to ... field]	[from extent of people risks to ... field]	[from extent of wildlife risks to ... field]	[from area over which risks to occur field]	[from timeframe of risks to ... field]	[from who shoulders risks to ... field]	
Degraded salmon habitat	not applicable	1 wildlife population affected	100-1000 km ²	over 5 years	Atlantic salmon, bears	
Fewer recreational fishing opportunities	100-1000	not applicable	100-1000 km ²	over 5 years	recreational anglers	

Benefits

Benefit	People affected	Wildlife populations affected	Area affected	Timeframe	Who benefits?
[from Benefits to ... field]	[from extent of people benefits to ... field]	[from extent of wildlife benefits to ... field]	[from area over which benefits to occur field]	[from timeframe of benefits to ... field]	[from who reaps benefits to ... field]
Increased property values	less than 10	not applicable	1-10 km ² affected	2-5 years	property owners

For a project with only more than one assessment done, it will look like this:

<p>[Project Name] assessments]</p> <p>Location: Project Start Date: Project End Date: Project Type:</p>	<p>[GRADE – average of all</p>	<p>Have a different viewpoint? Assess this project!</p> <p>Comment on this project: [comment box]</p>
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<p>Investment Lifetime of the project: Government investment in the project: Monetary investment the proponent is required by the province or the municipality: Total monetary investment by proponent:</p> <p>[this part could be set up like a report card] Assessment done by: Name, Group Grade: [grades only listed if there is a grade for that section] Community: Education: Health: Food: Energy: Transportation: Oceans & Freshwater: Forests, Nature & Wildlife: Click here to see what Name, Group said about this project.</p> <p>[this part could be set up like a report card] Assessment done by: Name 2, Group 2 Grade: [grades only listed if there is a grade for that section] Community: Education: Health: Food: Energy: Transportation: Oceans & Freshwater: Forests, Nature & Wildlife: Click here to see what Name 2, Group 2 said about this project</p> <p>etc...</p> <p>Comments: [from comments field]</p> <p>adsfasasdadasda by Name on Date.</p>	<p>Your name: _____</p> <p>Submit</p>
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Then, if they clicked on one specific person's assessment, they would see this:

<p>[Project Name]</p> <p>Completed by Name: Group:</p>	<p>[GRADE]</p> <p>Have a different viewpoint? Assess this project!</p>
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Risks					
Risk	People affected	Wildlife populations affected	Area affected	Timeframe	Who risks?
[from Risks to ... field]	[from extent of people risks to ... field]	[from extent of wildlife risks to ... field]	[from area over which risks to ... occur field]	[from timeframe of risks to ... field]	[from who shoulders risks to ... field]
Degraded salmon habitat	not applicable	1 wildlife population affected	100-1000 km ²	over 5 years	Atlantic salmon, bears
Fewer recreational fishing opportunities	100-1000	not applicable	100-1000 km ²	over 5 years	recreational anglers

Benefits					
Benefit	People affected	Wildlife populations affected	Area affected	Timeframe	Who benefits?
[from Benefits to ... field]	[from extent of people benefits to ... field]	[from extent of wildlife benefits to ... field]	[from area over which benefits to ... occur field]	[from timeframe of benefits to ... field]	[from who reaps benefits to ... field]
Increased property values	less than 10	not applicable	1-10 km ² affected	2-5 years	property owners

Comment on this project: [comment box]

Your name: _____

–

Submit

How grading works:

Each risk and benefit identified is weighted equally.

When more people or wildlife populations or species-at-risk benefit, the grade is higher. When there is risk to more people or wildlife populations or species-at-risk, the grade is lower.

When a larger area is negatively impacted, the grade is lower. When a larger area is positively impacted, the grade is higher.

When benefits are short-term, the grade is lower.

The grade is higher when risks are short-term.

For a more detailed explanation of the grading system, [click here](#).

Detailed explanation of grading: [this is basically what's in the original word document, but I have added the info on the species-at risk]

For each RISK, projects get

- 1 point out of 5 for more than 10,000 people affected
- 2 points out of 5 for 1000-10,000 people affected
- 3 points out of 5 for 100-1000 people affected
- 4 points out of 5 for 10-100 people affected
- 5 points out of 5 for less than 10 people affected
- 0 points out of 5 for not applicable

PLUS

- 1 point out of 5 for more than 15 wildlife populations affected
- 2 points out of 5 for 10-15 wildlife populations affected
- 3 points out of 5 for 5-10 wildlife populations affected
- 4 points out of 5 for 2- 5 wildlife populations affected
- 5 points out of 5 for less than 2 wildlife populations affected
- 0 points out of 5 for not applicable

PLUS

- 1 point out of 5 for more than 4+ species-at-risk affected
- 2 points out of 5 for 3 species-at-risk affected
- 3 points out of 5 for 2 species-at-risk affected
- 4 points out of 5 for 1 species-at-risk affected
- 5 points out of 5 for 0 species-at-risk affected
- 0 points out of 5 for not applicable

PLUS

- 1 point out of 5 for more than 1000 km² affected
- 2 points out of 5 for 100-1000 km² affected
- 3 points out of 5 for 10-100 km² affected
- 4 points out of 5 for 1-10 km² affected
- 5 points out of 5 for less than 1 km² affected

PLUS

- 1 point out of 5 for Long-term (more than 5 years)
- 3 points out of 5 for Medium-term (1 to 5 years)
- 5 points out of 5 for Short-term (up to 1 year)

For each BENEFIT, project gets:

- 1 point out of 5 for less than 10 people benefitting

- 2 points out of 5 for 10-100 people benefitting
- 3 points out of 5 for 100-1000 people benefitting
- 4 points out of 5 for 1000-10,000 people benefitting
- 5 points out of 5 for more than 10,000 people benefitting
- 0 points out of 5 for not applicable

PLUS

- 1 point out of 5 for less than 2 wildlife populations benefitting
- 2 points out of 5 for 2-5 wildlife populations benefitting
- 3 points out of 5 for 5-10 wildlife populations benefitting
- 4 points out of 5 for 10-15 wildlife populations benefitting
- 5 points out of 5 for more than 15 wildlife populations benefitting
- 0 points out of 5 for not applicable

PLUS

- 1 point out of 5 for 0 species-at-risk benefitting
- 2 points out of 5 for 1 species-at-risk benefitting
- 3 points out of 5 for 2 species-at-risk benefitting
- 4 points out of 5 for 3 species-at-risk benefitting
- 5 points out of 5 for 4+ species-at-risk benefitting
- 0 points out of 5 for not applicable

PLUS

- 1 point out of 5 for less than 1 km² affected
- 2 points out of 5 for 1-10 km² affected
- 3 points out of 5 for 10-100 km² affected
- 4 points out of 5 for 100-1000 km² affected
- 5 points out of 5 for more than 1000 km² affected

PLUS

- 1 point out of 5 for Short-term (up to one year)
- 3 points out of 5 for Medium-term (1 to 5 years)
- 5 points out of 5 for Long-term (more than five years)

The total number of points is added up and an average is taken out of 5. Based on this final number, a grade is assigned as follows:

- A+ 4.8-5.0
- A 4.6-4.8
- A- 4.3-4.6
- B+ 4.1-4.3
- B 3.8-4.1
- B- 3.6-3.8
- C+ 3.4-3.6
- C 3.2-3.4
- C- 3.0-3.2
- D 2.3-3.0

The **database** will contain the following fields for each development project. The information contained in the database should be edit-able by the administrator in the back-end.:

- Project Name
- Project Start Date
- Project End Date
- Grade
- Grade for Community
- Grade for Education
- Grade for Health
- Grade for Food
- Grade for Energy
- Grade for Transportation
- Grade for Oceans & Freshwater
- Grade for Forests, Nature & Wildlife
- Name of Person Completing Assessment
- Group of Person Completing Assessment
- Email
- Phone
- Date of Completion [generated automatically]
- Actual or Anticipated
- Lifetime of the Project
- Government Investment
- Monetary investment required
- Total monetary investment
- Risks to [separate field for each item in the table: Quality of Life, Access to Services, etc.]
- Extent of People Risks to [separate field for each item in the table: Quality of Life, Access to Services, etc.]
- Extent of Wildlife Risks to [separate field for each item in the table: Quality of Life, Access to Services, etc.]
- Area over Which Risks to [separate field for each item in the table: Quality of Life, Access to Services, etc.] Occur
- Timeframe of Risks to [separate field for each item in the table: Quality of Life, Access to Services, etc.]
- Which Group Shoulders Risks to [separate field for each item in the table: Quality of Life, Access to Services, etc.]
- Who Shoulders Risks to [separate field for each item in the table: Quality of Life, Access to Services, etc.]
- Benefits to [separate field for each item in the table: Quality of Life, Access to Services, etc.]
- Extent of People Benefits to [separate field for each item in the table: Quality of Life, Access to Services, etc.]
- Extent of Wildlife Benefits to [separate field for each item in the table: Quality of Life, Access to Services, etc.]
- Area over which Benefit to [separate field for each item in the table: Quality of Life, Access to Services, etc.] Occur
- Timeframe of Benefits to [separate field for each item in the table: Quality of Life, Access to Services, etc.]
- Which Group Reaps Benefits to [separate field for each item in the table: Quality of Life, Access to Services, etc.]

Who Reaps Benefits to [separate field for each item in the table: Quality of Life, Access to Services, etc.]

Comments

Name of commenter

Date of comment [generated automatically]

Table of Risk & Benefit Categories	Section
Aesthetics	Community
Noise	
Access to public services (schools, health care, etc.)	Community
Time available for leisure	Community
Recreational activities	Community
Local culture, identity & traditional ways of life	Community
Crime rate	Community
Distribution of wealth	Community
Property values	Community
Local businesses, livelihoods & jobs	Community
Children	Community
Urban Sprawl	Community
Governance & legislation	Community
Access to education & training	Education
Literacy	Education
Quality of education	Education
Health & well-being	Health
Community health	Health
Air quality	Health
Access to healthy, local food	Food
Soil quality	Food
Agricultural land	Food
Climate change	Energy
Access to affordable energy	Energy
Traffic	Transportation
Access to active transportation routes	Transportation
Water quality	Oceans & Freshwater
Water quantity	Oceans & Freshwater
Native fish populations & aquatic habitats	Oceans & Freshwater
Native wildlife populations & terrestrial habitats	Forests, Nature & Wildlife
Biodiversity	Forests, Nature & Wildlife
The landscape	Forests, Nature & Wildlife
Other	

Scoring:

Each development project will be given a grade. An overall grade will be given, as well as grade for each section.

Grades are calculated as follows:

For each RISK, projects get

1 point out of 5 for	more than 10,000 people affected
2 points out of 5 for	1000-10,000 people affected
3 points out of 5 for	100-1000 people affected
4 points out of 5 for	10-100 people affected
5 points out of 5 for	less than 10 people affected
0 points out of 5 for	not applicable

PLUS

1 point out of 5 for	more than 15 wildlife populations affected
2 points out of 5 for	10-15 wildlife populations affected
3 points out of 5 for	5-10 wildlife populations affected
4 points out of 5 for	2- 5 wildlife populations affected
5 points out of 5 for	less than 2 wildlife populations affected
0 points out of 5 for	not applicable

PLUS

1 point out of 5 for	more than 1000 km ² affected
2 points out of 5 for	100-1000 km ² affected
3 points out of 5 for	10-100 km ² affected
4 points out of 5 for	1-10 km ² affected
5 points out of 5 for	less than 1 km ² affected

PLUS

1 point out of 5 for	Long-term (more than 5 years)
3 points out of 5 for	Medium-term (1 to 5 years)
5 points out of 5 for	Short-term (up to 1 year)

For each BENEFIT, project gets:

1 point out of 5 for	less than 10 people benefitting
2 points out of 5 for	10-100 people benefitting
3 points out of 5 for	100-1000 people benefitting
4 points out of 5 for	1000-10,000 people benefitting
5 points out of 5 for	more than 10,000 people benefitting
0 points out of 5 for	not applicable

PLUS

1 point out of 5 for	less than 2 wildlife populations benefitting
2 points out of 5 for	2-5 wildlife populations benefitting
3 points out of 5 for	5-10 wildlife populations benefitting
4 points out of 5 for	10-15 wildlife populations benefitting
5 points out of 5 for	more than 15 wildlife populations benefitting
0 points out of 5 for	not applicable

PLUS

1 point out of 5 for	less than 1 km ² affected
2 points out of 5 for	1-10 km ² affected
3 points out of 5 for	10-100 km ² affected
4 points out of 5 for	100-1000 km ² affected
5 points out of 5 for	more than 1000 km ² affected

PLUS

1 point out of 5 for	Short-term (up to one year)
3 points out of 5 for	Medium-term (1 to 5 years)
5 points out of 5 for	Long-term (more than five years)

The total number of points is added up and an average is taken out of 5. Based on this final number, a grade is assigned as follows:

A+	4.8-5.0
A	4.6-4.8
A-	4.3-4.6
B+	4.1-4.3
B	3.8-4.1
B-	3.6-3.8
C+	3.4-3.6
C	3.2-3.4
C-	3.0-3.2
D	2.3-3.0
F	1.0-2.2

So, for example, if a project has risks or benefits in three different sections (education, health, and wildlife), the project would get an overall grade that averages all of the risks and benefits in these sections, as well as a grade in each section that averages all of the risks and benefits in each section. In this example, the grade might be A- in education; C in health, and D in wildlife and the overall grade might be C.