

Developing a freshwater management framework for the Roxburgh rohe

STAGE 1 COMMUNITY CONSULTATION - OVERVIEW REPORT OF FEEDBACK
RECEIVED (MARCH 2022)

1. Introduction

1.1 Purpose of this report

This report summarises the results from the first stage of community consultation undertaken to develop a planning framework for managing freshwater in the Roxburgh rohe.

1.2 Regulatory context

In 2019, Otago Regional Council (ORC) committed to develop and notify a new Land and Water Regional Plan (LWRP), that gives effect to the National Policy Statement for Freshwater Management 2020 (NPSFM) by 31 December 2023.¹

Under the NPSFM regional councils are required to identify Freshwater Management Units (FMUs) for the region at an appropriate spatial scale for freshwater management. Each FMU must reflect the unique circumstances of each region, as these circumstances will dictate what freshwater objectives and limits will be set within the FMU.² Five FMUs have been identified for the Otago region, these are: Clutha Mata-au, Taieri, North Otago, Dunedin & Coast and Catlins. The Clutha Mata-au FMU has been further subdivided into five rohe and the Roxburgh is one of these rohe. Maps showing the boundaries of the of the Roxburgh rohe and Clutha Mata-au FMU are shown in Appendices 3 and 4.

Under the NPSFM regional councils are also required to identify values related to freshwater applying to an FMU or part of an FMU. Regional councils must develop environmental outcomes for each of these values and set these as objectives in a plan. Attributes must then be identified for each value, along with baseline and target attribute states and environmental flows/levels and limits designed to support the achievement of the environmental outcomes.³ These environmental outcomes and limits must be developed through engagement with the community and active involvement of takata whenua regarding their values and aspirations.⁴

The NPSFM has identified 4 compulsory values that apply to every FMU and 9 other values that must also be considered as applying to an FMU or part of an FMU.⁵ Other values identified by the community are also to be considered.⁶ Appendices 2A and 2B of the NPSFM list attributes that need to be managed, e.g. total nitrogen is an example of a relevant attribute.

By undertaking this community consultation process, ORC is meeting its obligation to engage with communities under Clause 3.7 (National Objectives Framework process) of the NPSFM.

The process will also assist ORC with fulfilling its statutory requirements under Clause 3 of Schedule 1 of the RMA, including ensuring that consultation is undertaken in accordance with the principles set out in section 82 of the Local Government Act 2002.

¹ NPSFM 2020 <https://environment.govt.nz/publications/national-policy-statement-for-freshwater-management-2020/>.

² NPSFM Clauses 1.4 and 3.8(1).

³ NPSFM Subpart 2 National Objectives Framework.

⁴ While environmental outcomes (and target attribute states, environmental flows/levels and limits) set in the new LWRP need to be developed through engagement with the community and active involvement of takata whenua, the outcomes achieved must also meet the national bottom lines set in the NPSFM, achieve the objective of the NPSFM and fulfil the relevant long-term visions set in the regional policy statement.

⁵ NPSFM Clause 3.9(1), Appendix 1A Ecosystem Health, Human contact, Threatened species, and Mahinga kai, and NPSFM Appendix 1B Natural form and character, Drinking water supply, Wai tapu, Transport and tauranga waka, Fishing, Hydro-electric power generation, Animal drinking water, Irrigation, cultivation, and production of food and beverages, and Commercial and industrial use

⁶ NPSFM Clause 3.9 (2)

2. Consultation

2.1 Purpose

The purpose of the consultation was firstly, to gain an understanding of what characteristics for each value matter to the community, secondly, whether the community thought those characteristics are currently being provided for, thirdly, to identify locations of each value on a map, and lastly, to identify any characteristics or values that were not identified.

This feedback will be used to identify all the values that are important to the community, while also helping to inform the setting of environmental outcomes for each value and the identification of attributes for assessing the achievement of these outcomes.

During consultation participants were asked to comment on characteristics of a value instead of attributes, as this allowed them to provide feedback in simple plain terms on easy-to-understand concepts. Attributes (as referred to in the NPSFM) are a representation of these characteristics in more technical terms, allowing the condition or state of this value to be assessed in objective and, where practicable, numeric terms. Examples of characteristics for the value of swimming include water clarity and risk of getting sick. Attributes that correspond to these characteristics are suspended fine sediment and *Escherichia Coli* (*E. coli*).

2.2 Methodology

2.2.1 Community meetings online

On Wednesday 2nd March at 7pm an online community meeting was held. Participants were presented with an overview of the LWRP development process, and the proposed Otago Regional Policy Statement (pORPS) long-term vision for the Roxburgh rohe.⁷ This was followed by a demonstration of the online survey and mapping tool. The presentation was interspersed with facilitated group discussion on visions, values and desired environmental outcomes for their area.

Paper copies of the survey were made available for people without internet access wanting to participate in the survey.

2.2.2 Online and paper survey

From 28 February 2022 until the 28 March 2022 the public were invited to have their say on twelve values, each with their own set of characteristics, via the survey (see Appendices 4 & 5 for examples of the survey). These values were:

- Swimming (and other primary contact recreational water activities)
- Fishing (and other secondary contact recreational water activities)
- Walking, camping, picnicking, sightseeing (and other non-contact recreational water activities)
- Plants or animals that live in or near water
- Threatened species
- Habitat
- Water Quality
- River flow and lake level

⁷ One of the new requirements under the new NPSFM is for all regional councils to develop long-term freshwater visions for Freshwater Management Units (FMUs and Rohe). The freshwater visions are included as objectives in the new proposed Otago RPS. The long-term freshwater visions were developed following engagement with taka whenua and consultation with local communities in October and November 2020.

- Natural Character
- Water take/use
- Wetlands
- Groundwater

Each of the values has their own specific characteristics. Participants were asked to identify, from the list of characteristics provided, which characteristics matter to them. Participants were then asked to rate the condition of the characteristic, using a Likert scale of 1-5.⁸

The survey also provided people with the opportunity to identify values and characteristics not listed the survey.

A total of 15 people provided feedback via the online survey.

2.2.3 Locational data

Locational data was gathered via an online mapping tool (example shown in Appendix 6), and a “location” field in the paper survey (see Appendix 6). The online mapping tool was linked to the online survey, and available for the public to “Pin their interests” between 28 February and 28 March 2022. There were no location data points recorded in the Roxburgh rohe.

2.3 Results of the survey

The survey data and comments are displayed in Appendix 1.⁹

3. Future consultation stages

The next consultation stage in the Roxburgh rohe is scheduled to take place in the second half of 2022. It will focus on presenting environmental outcomes for the various identified community and Kai Tahu values, as well as management options to achieve these outcomes.

4. List of appendices:

Appendix 1: Survey results data

Appendix 2: Map of Roxburgh rohe

Appendix 3: Map of the Clutha Mata-au FMU

Appendix 4: Example of online survey

Appendix 5: Example of paper survey

Appendix 6: Example of online mapping tool

⁸ A Likert scale is a rating scale, developed to measure attitudes. The Likert scale (typically) provides five possible answers to a statement or question that allows respondents to indicate their positive-to-negative strength of agreement or strength of feeling regarding a question or statement.

⁹ At the ORC we believe in respectful communication. We have redacted comments that may be viewed as abusive, offensive, defamatory, disrespectful or harmful, while trying not to alter the meaning of the feedback received.

Land and Water Regional Plan Survey 2022

SURVEY RESPONSE REPORT

28 February 2022 - 28 March 2022

PROJECT NAME:

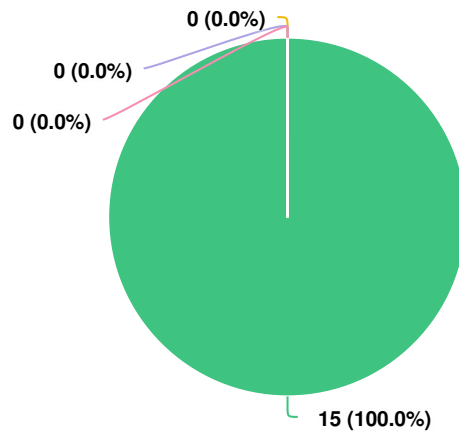
Land and Water Regional Plan Consultations

FILTER BY:

Select below the FMU or rohe you are interested in.

Answered : Roxburgh-Rohe

Q1 Select below the FMU or rohe you are interested in.



Question options

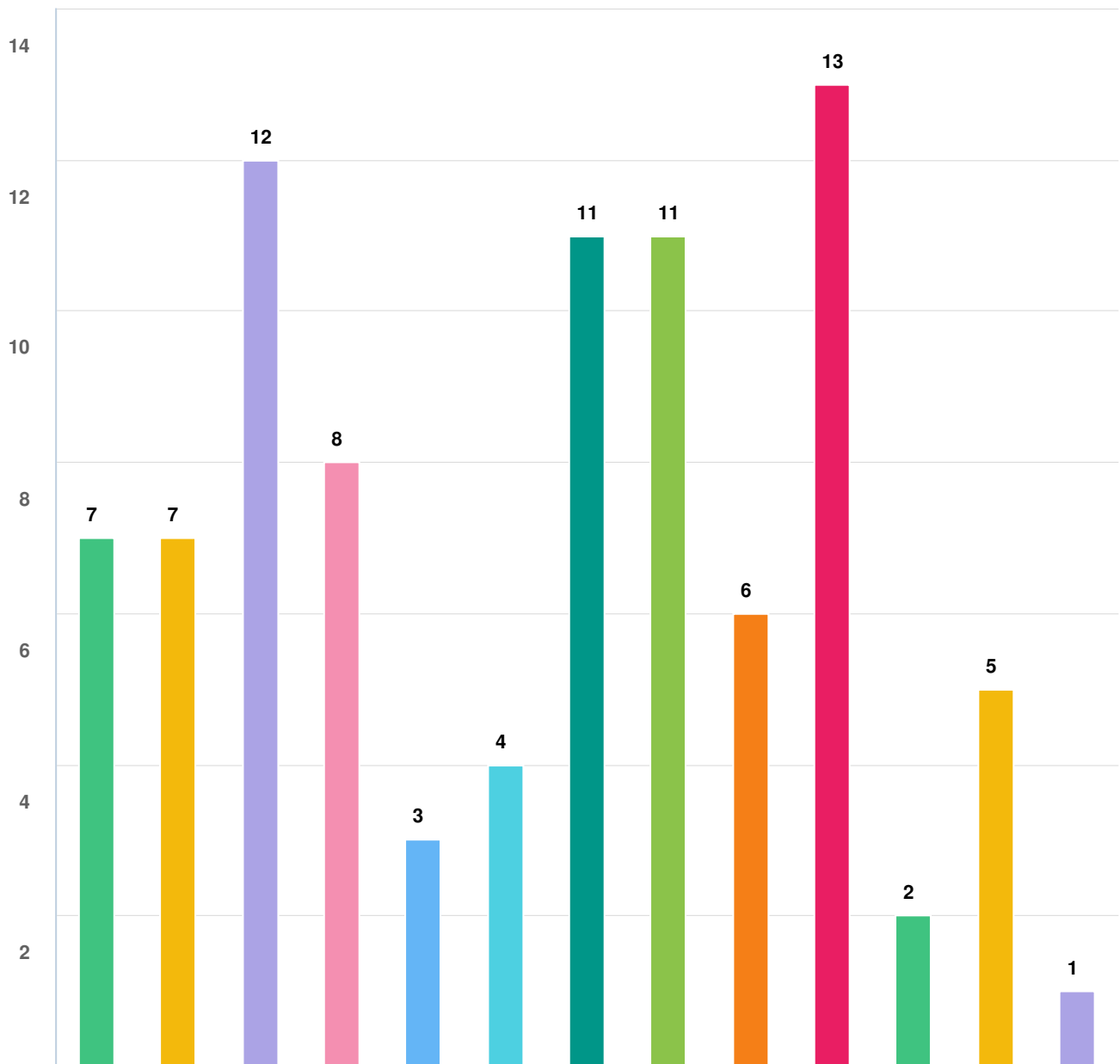
- Roxburgh Rohe
- Dunedin & Coast FMU
- North Otago FMU
- Taieri FMU

Mandatory Question (15 response(s))

Question type: Dropdown Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q2 Select the things that matter to you.



Question options

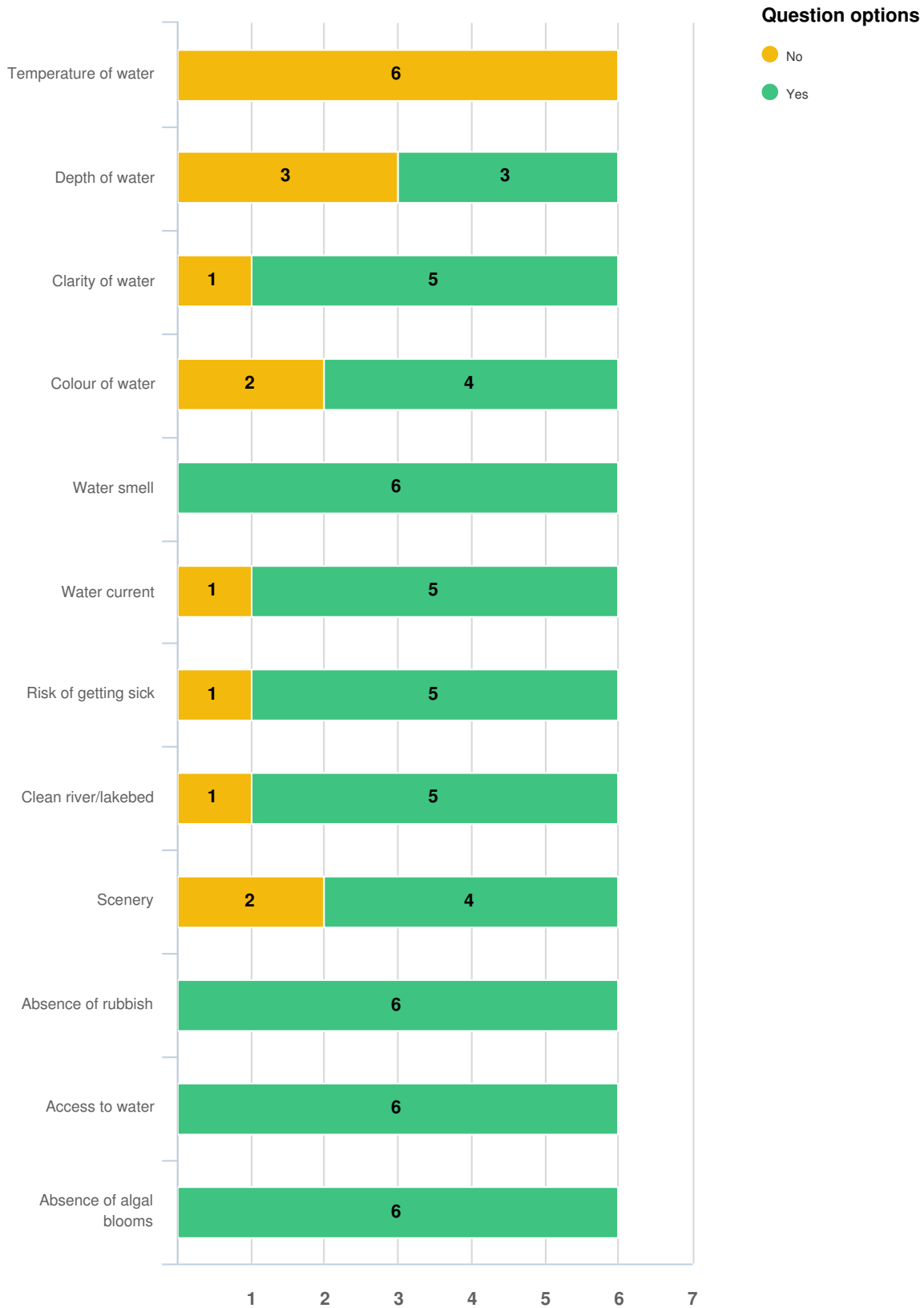
- Swimming (and other primary contact recreational water activities)
- Fishing (and other secondary contact recreational water activities)
- Walking, camping, picnicking, sightseeing (and other non-contact recreational water activities)
- Plants or animals that live in or near water ● Threatened species ● Habitat ● Water quality
- River flow and lake level ● Natural character ● Water take/use ● Wetlands ● Groundwater
- Something else

Mandatory Question (15 response(s))

Question type: Checkbox Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

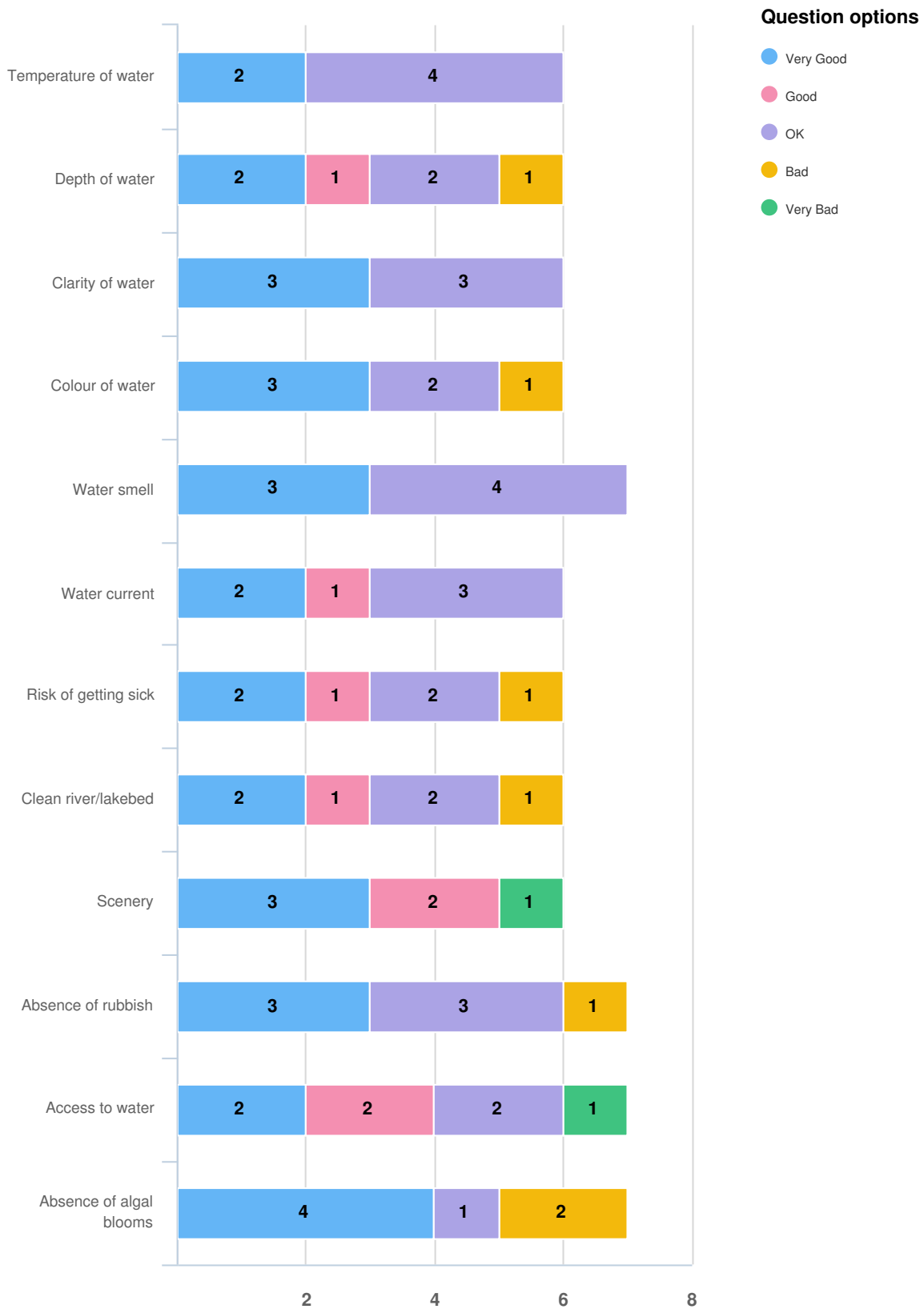
Q3 Regarding swimming (or other primary contact recreational water activities*), what matters to you?*Activities where your body or face are often underwater, wetted by spray, and where you are likely to swallow water.



Optional question (6 response(s), 9 skipped)

Question type: Likert Question

Q4 How has this been over the last 5 years?



Optional question (7 response(s), 8 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q5 Are there any other important characteristics you can think of? Please list them below.

Anonymous

3/09/2022 08:16 AM

Failure to monitor self containment at Pinders Pond campsite.
Multiple phone calls to Council made over holiday period with no call backs. Rubbish being dumped and excessive numbers so locals cannot enjoy this space. Toilets inadequate.

Anonymous

3/11/2022 12:40 AM

More stable flows linked to natural runoff rather than generation

Anonymous

3/28/2022 08:45 PM

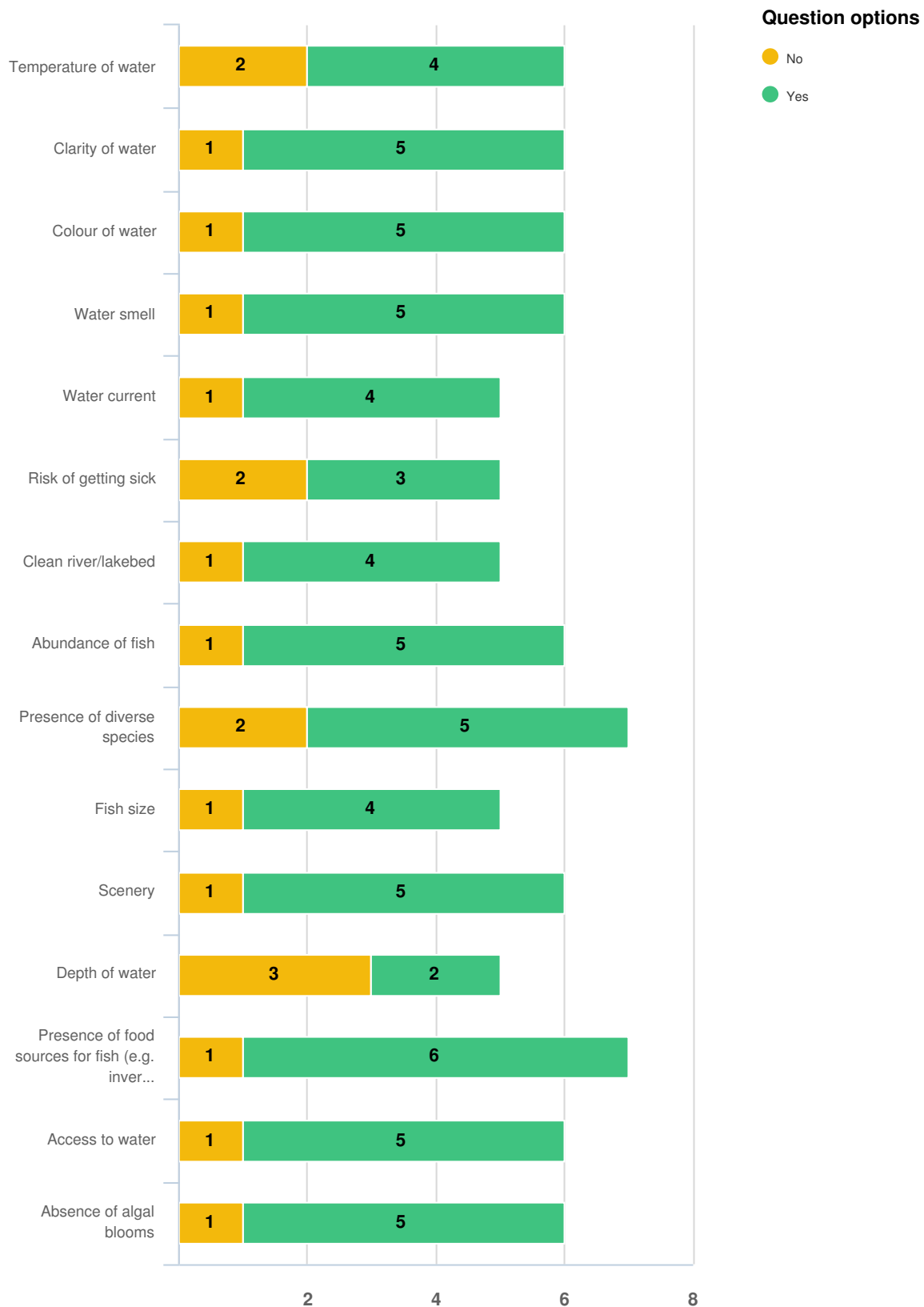
River Willow Trees are out of control !

Optional question (4 response(s), 11 skipped)

Question type: Essay Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

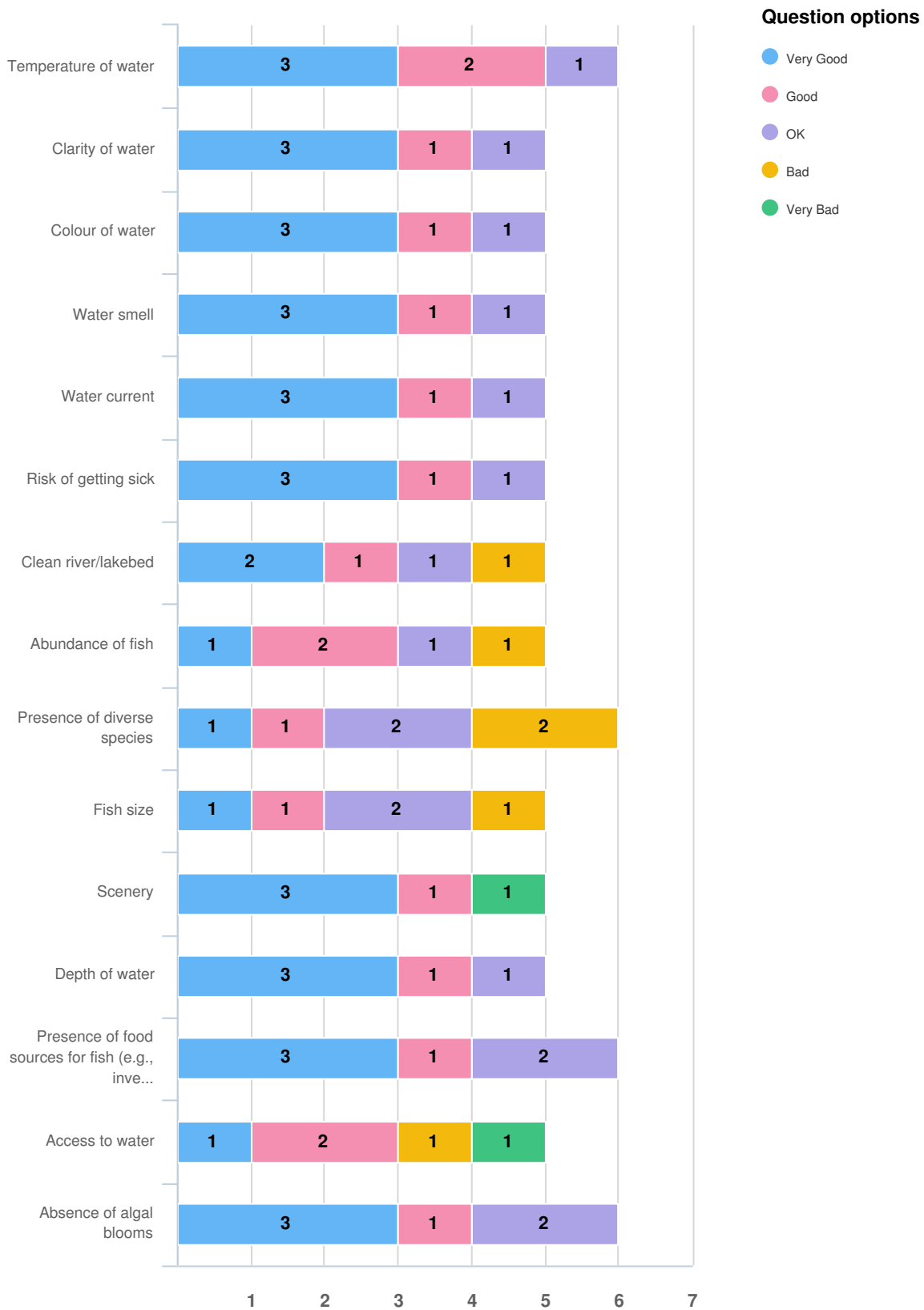
Q6 Regarding fishing (and other secondary contact recreational water activities), what matters to you? *Activities where only your arms and legs are in contact with the water. Canoeing, kayaking, boating, sailing, rowing, duck shooting and wading are o...



Optional question (7 response(s), 8 skipped)

Question type: Likert Question

Q7 How has this been over the last 5 years?



Optional question (6 response(s), 9 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q8 Are there any other important characteristics you can think of? Please list them below.

Anonymous

3/11/2022 12:40 AM

The addition of salmon fingerlings as required under RMA by Meridian

Anonymous

3/28/2022 05:50 PM

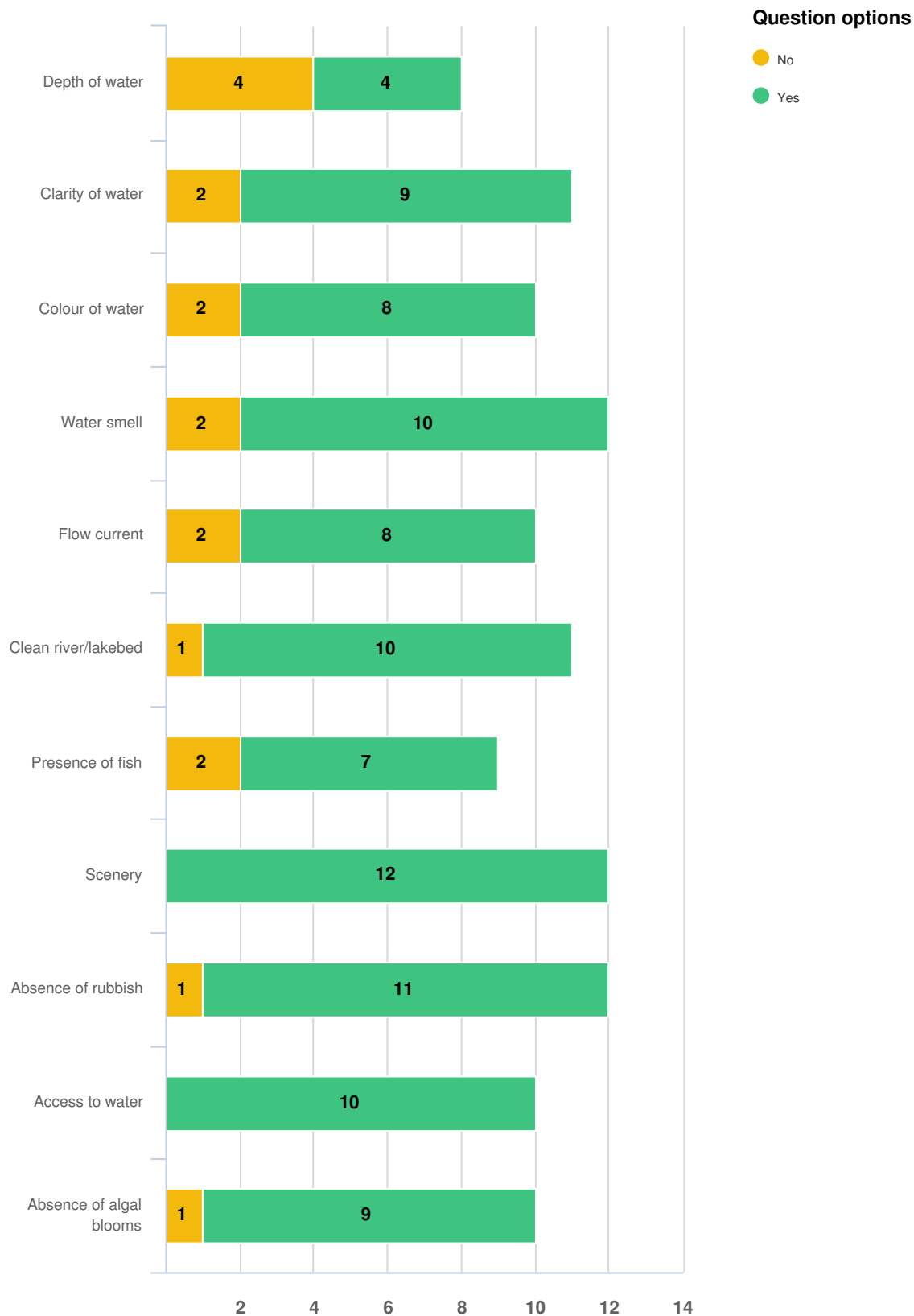
I think the real problem with treating each of the areas of interest separately is that fulfilling desires in one area may conflict with another area, eg Fishing versus Water Take/Use. But the way the survey is set up, this tension is simply avoided, this is a problem. I like fishing, it is relaxing, but if I can't irrigate my gardens (for food and fruit), I am unlikely to be going fishing or feel very relaxed about things.

Optional question (2 response(s), 13 skipped)

Question type: Essay Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q9 Regarding walking, camping, picnicking, sightseeing (and other non-contact recreational water activities), what matters to you?*Activities where you are not in contact with the water.

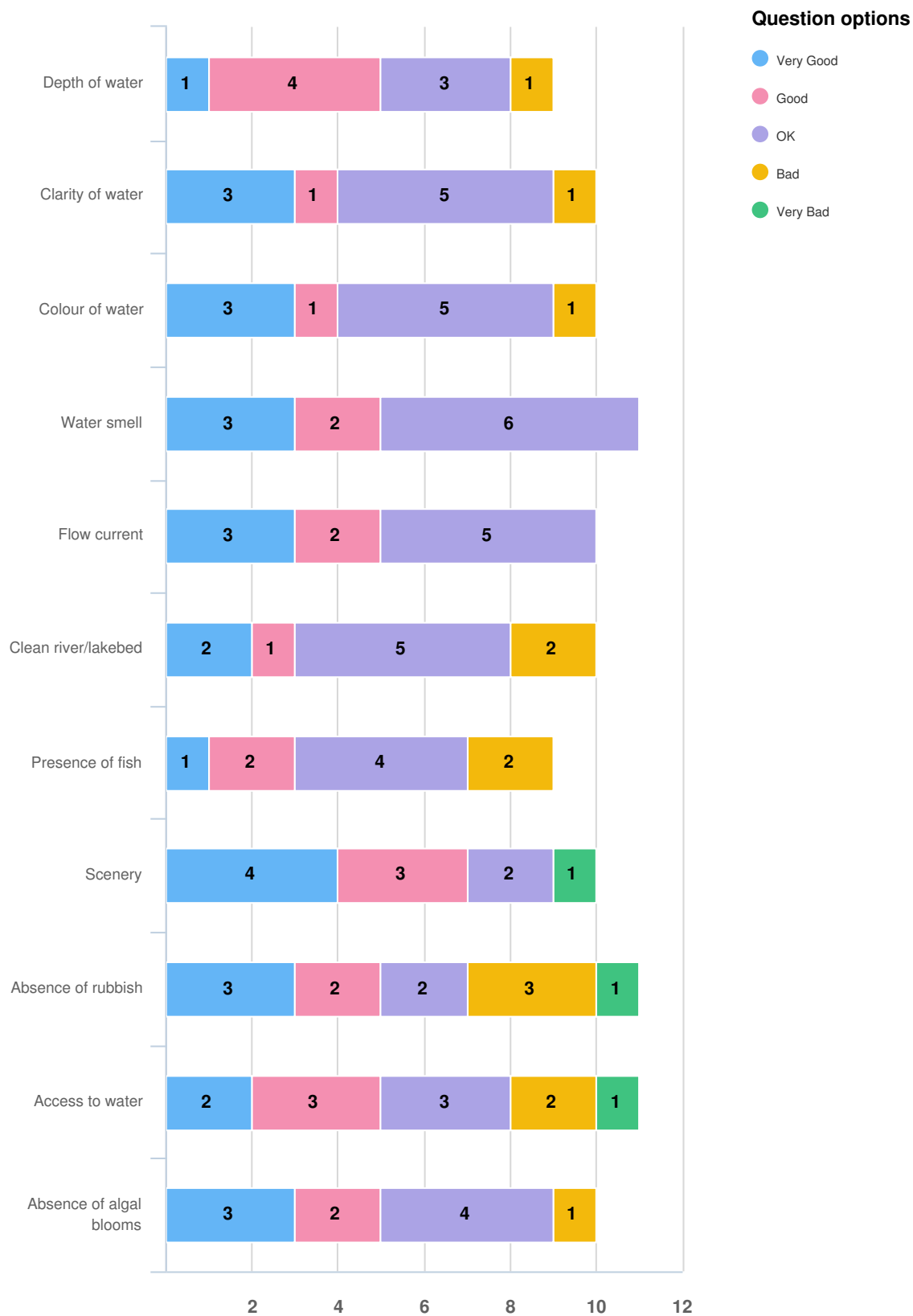


Optional question (12 response(s), 3 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q10 How has this been over the last 5 years?



Optional question (11 response(s), 4 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q11 | Are there any other important characteristics you can think of? Please list them below.

Anonymous

3/09/2022 08:16 AM

Who is responsible for maintaining and eventually decommissioning Roxburgh dam to give back our natural waterway. Fix the liability Crown/Contact have already created as a priority.

No

Anonymous

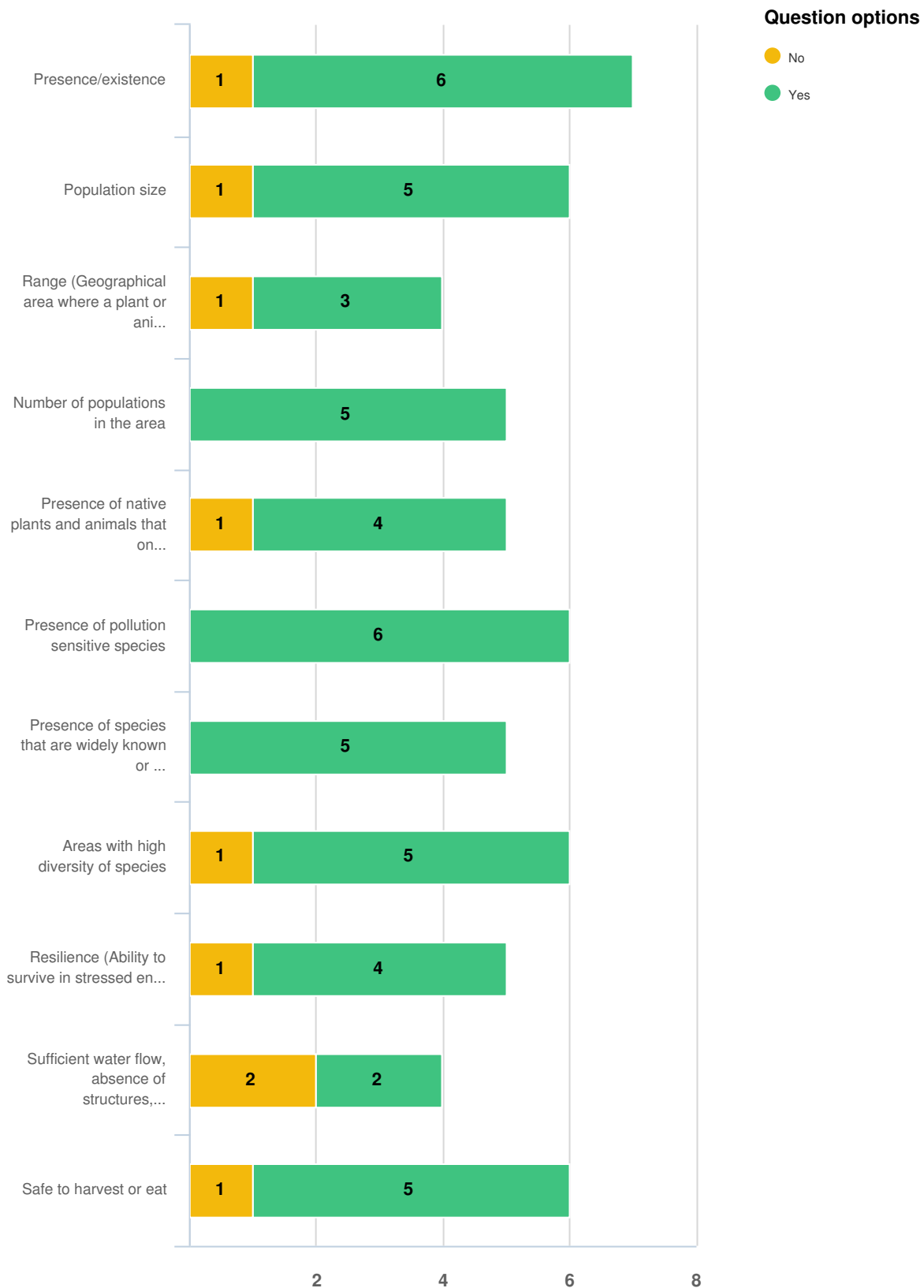
3/11/2022 12:40 AM

Optional question (2 response(s), 13 skipped)

Question type: Essay Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q12 Regarding plants or animals that live in or near water, what matters to you? Plants such as water cress, raupō, or submerged water plants or animals such as fish, ducks, microbes, mussels, or frogs.



Optional question (8 response(s), 7 skipped)

Question type: Likert Question

Q13 How has this been over the last 5 years?



Optional question (7 response(s), 8 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q14 Are there any other important characteristics you can think of? Please list them below.

Anonymous

3/28/2022 02:28 PM

The entry above relates to willows and their increasing proliferation along creek riparian margins ... ie: becoming an increased pest in some of the smaller creeks

Anonymous

3/28/2022 03:23 PM

Above refers to presence of pest species along Clutha river margin, ie: willows, blackberry, briar rose, lupin etc all of which seem to be increasing over time and making access to/along the river edge difficult.

Optional question (2 response(s), 13 skipped)

Question type: Essay Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q15 Regarding threatened species*, what matters to you? *Any aquatic plant or animal that is vulnerable, endangered, or critically endangered.

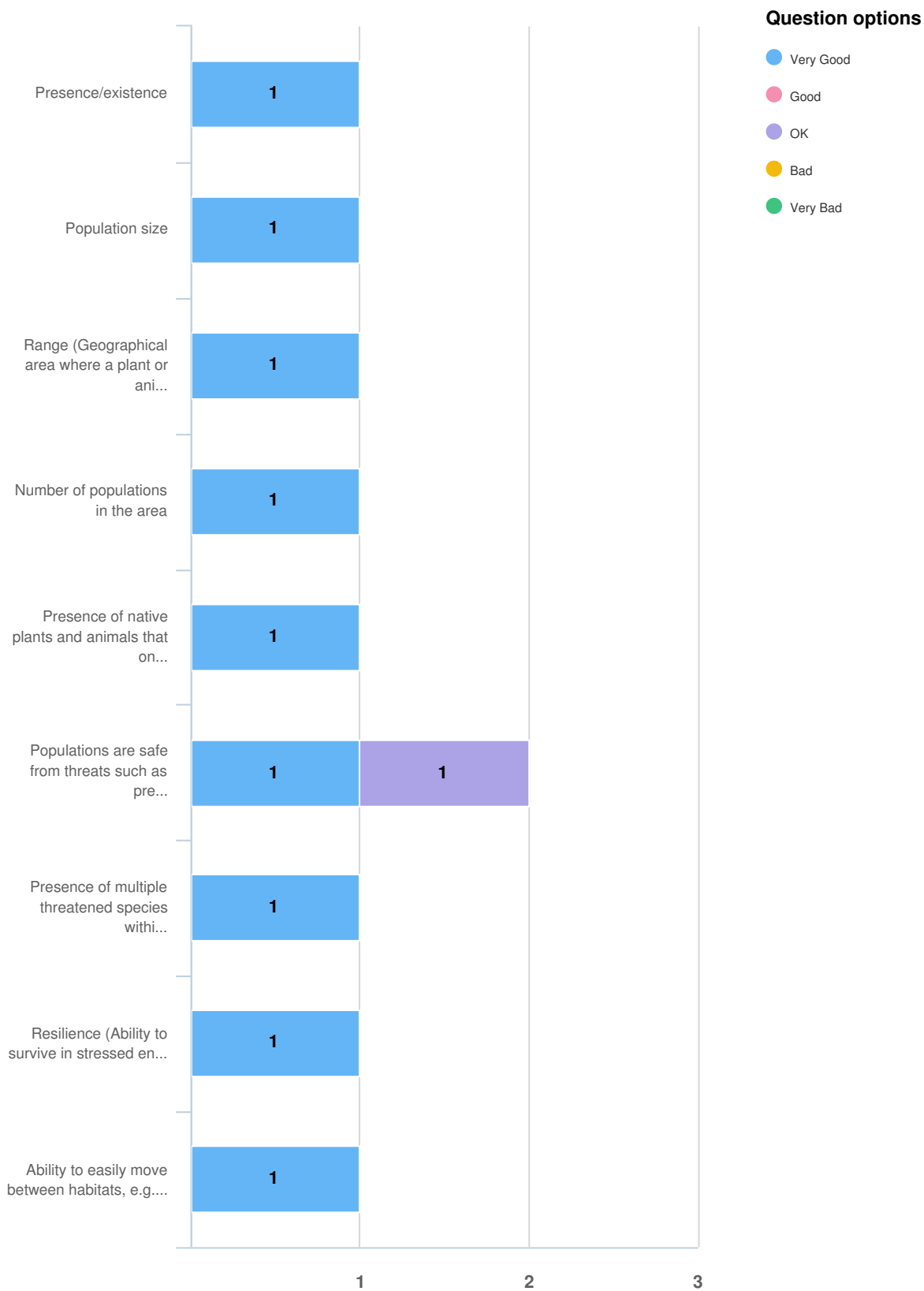


Optional question (3 response(s), 12 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q16 How has this been over the last 5 years?

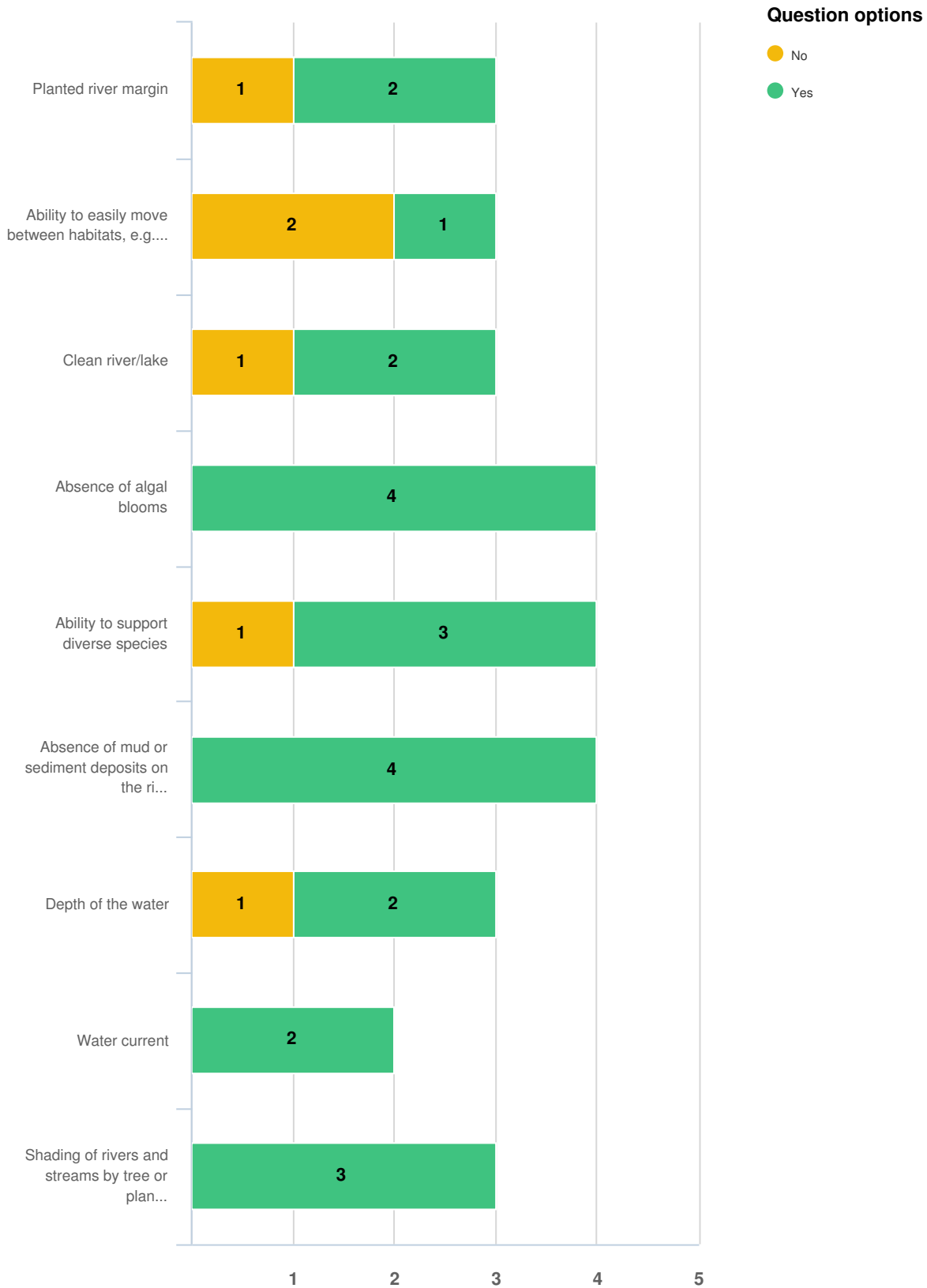


Optional question (2 response(s), 13 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q18 Regarding habitats*, what matters to you? *These are environments which supports fish or other life that lives in or near the water and includes the land area and vegetation next to water (riparian habitat) that provide shade, food, and/or protecti...



Optional question (4 response(s), 11 skipped)

Question type: Likert Question

Q19 How has this been over the last 5 years?



Optional question (4 response(s), 11 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q21 Regarding water quality*, what matters to you?*The health and well-being of the water, including chemical, physical, and biological characteristics.



Optional question (11 response(s), 4 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q22 How has this been over the last 5 years?



Optional question (10 response(s), 5 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q23 Are there any other important characteristics you can think of? Please list them below.

Anonymous

3/28/2022 05:50 PM

I am answering OK because I don't know what some of these things have been like for the last five year, eg Nutrient levels, algal blooms.

Optional question (1 response(s), 14 skipped)

Question type: Essay Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q24 Regarding river flow and lake levels*, what matters to you?*The patterns of high and low flows and processes that shape river channels, floodplains and lakes.

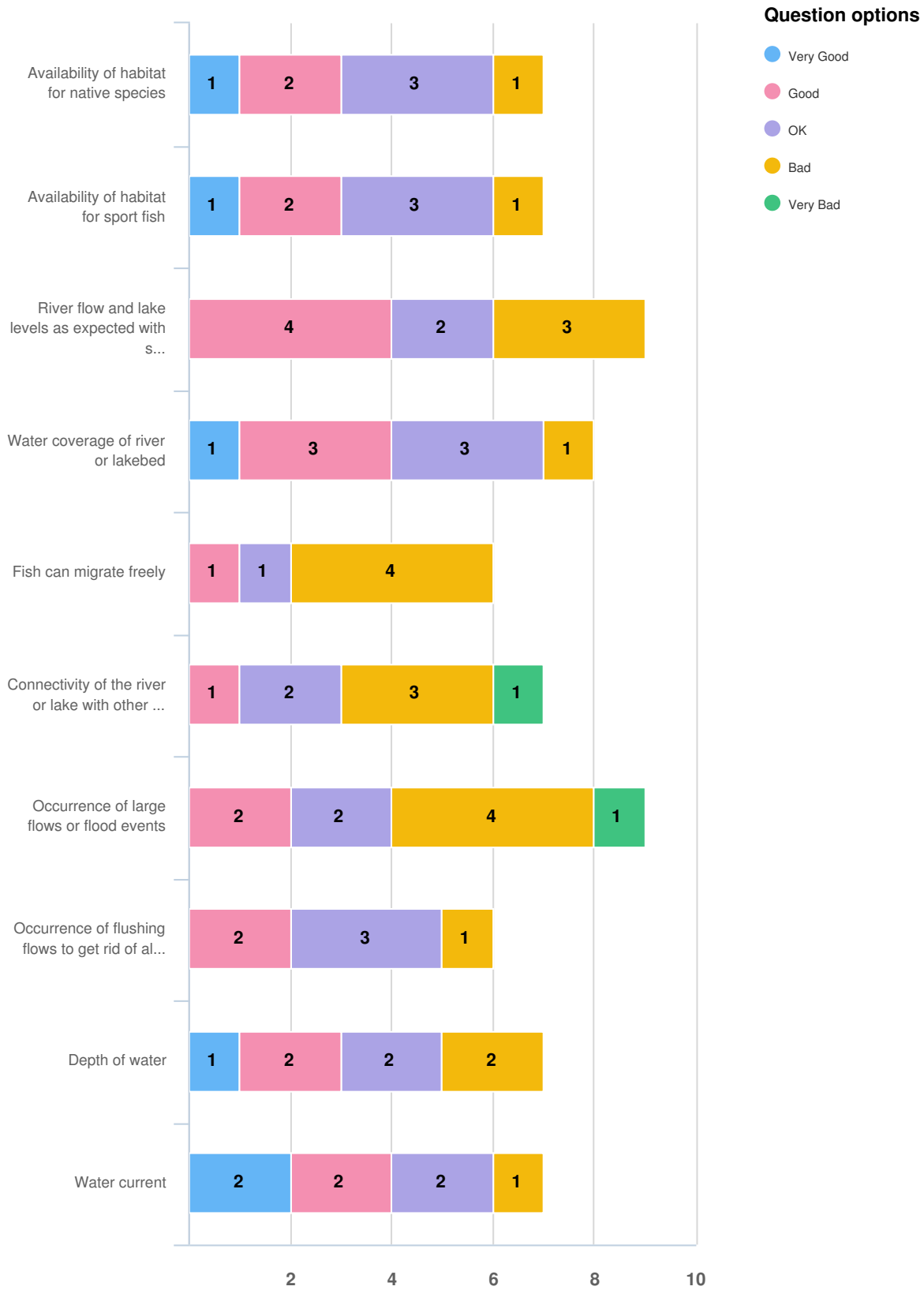


Optional question (11 response(s), 4 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q25 How has this been over the last 5 years?



Optional question (10 response(s), 5 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q26 Are there any other important characteristics you can think of? Please list them below.

Anonymous

3/27/2022 01:03 PM

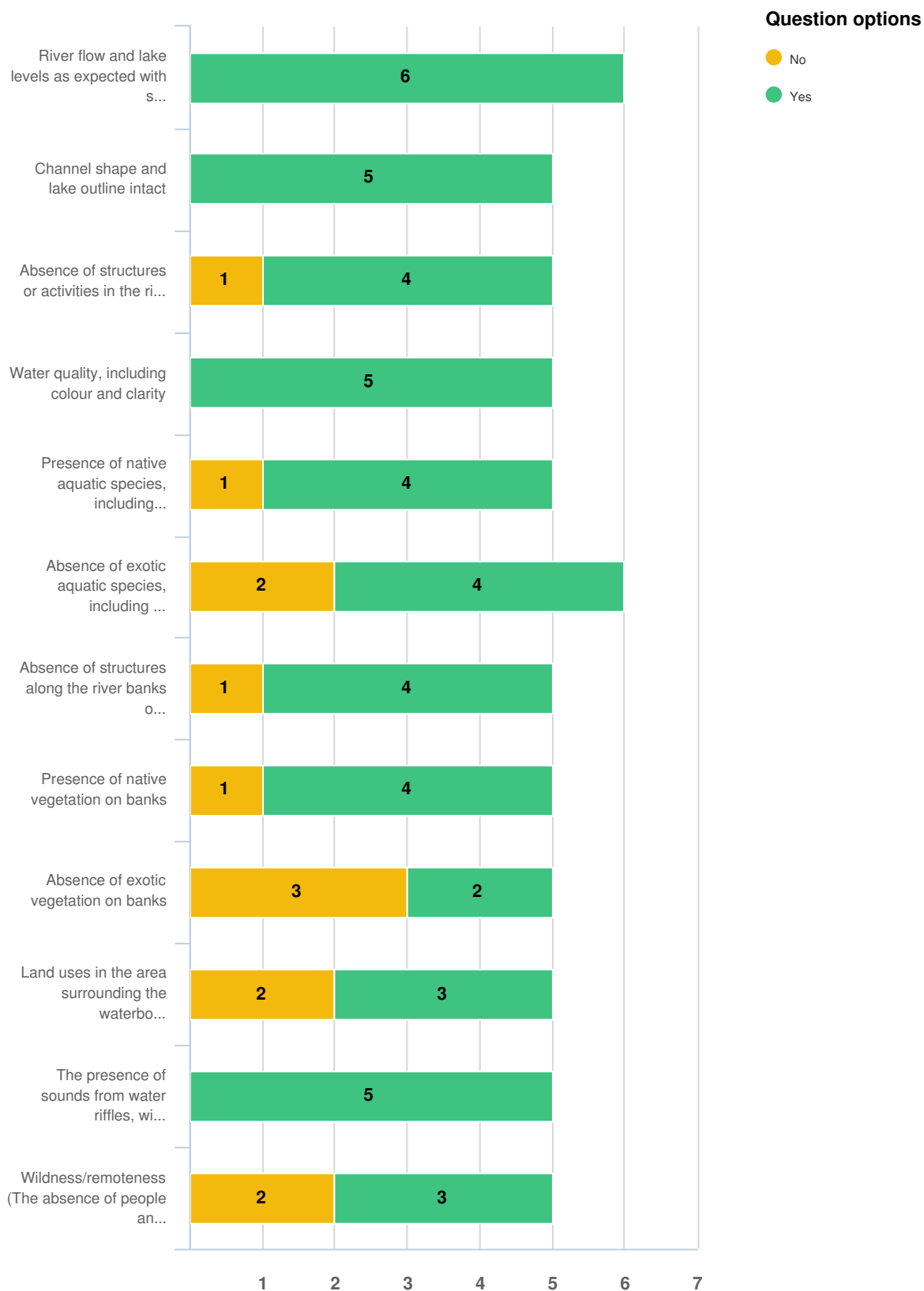
Silt build-up ie: the occurrence of silt build-up and therefore its removal as required from lower end/confluence area of the Manuherikia River and the Clutha River (recognizing the influence of the Clyde and Roxburgh Dams and Clutha River flood flows creating the deposit of silt near the confluence of the Manuherikia with the Clutha, and the practical need for intermittent removal.)

Optional question (2 response(s), 13 skipped)

Question type: Essay Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q27 Regarding natural character*, what matters to you? *The presence of natural processes, such as the action of rivers or wave action on lakes, the movement of animals and the natural succession of plant species, and natural elements, such as clean wa...



Optional question (6 response(s), 9 skipped)

Question type: Likert Question

Q28 How has this been over the last 5 years?



Optional question (6 response(s), 9 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q29 Are there any other important characteristics you can think of? Please list them below.

Anonymous

3/09/2022 08:16 AM

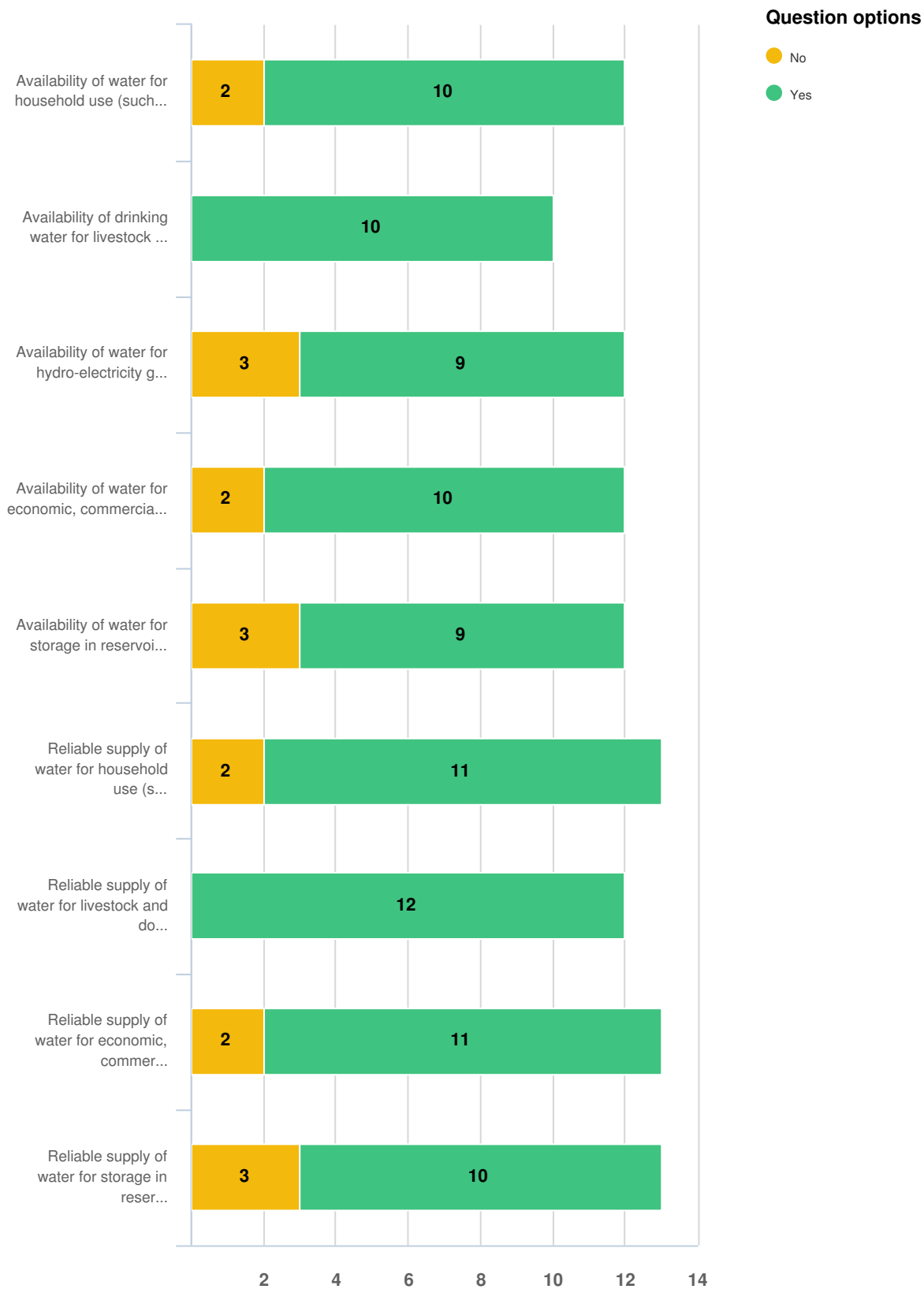
Freedom camping at Pinders Pond creates too much demand. There are many privately owned campsites in Roxburgh that can be used leaving Pinders Pond for non camping visitors.

Optional question (1 response(s), 14 skipped)

Question type: Essay Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q30 Regarding water take/use*, what matters to you?*The taking of water for a variety of uses, including human consumption, stock drinking water, hydro-electricity generation, irrigation and a variety of other commercial or industrial uses.



Optional question (13 response(s), 2 skipped)

Question type: Likert Question

Q31 How has this been over the last 5 years?



Optional question (11 response(s), 4 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q32 Are there any other important characteristics you can think of? Please list them below.

Anonymous

3/09/2022 08:16 AM

Cost. The cost of water in Roxburgh per household is very affordable. Concern is more Government intervention then costs increase. Why dont you ask if we want change or not. Many of us welcome the current arrangement locally managed like Teviot Irrigation Company.

Anonymous

3/28/2022 05:50 PM

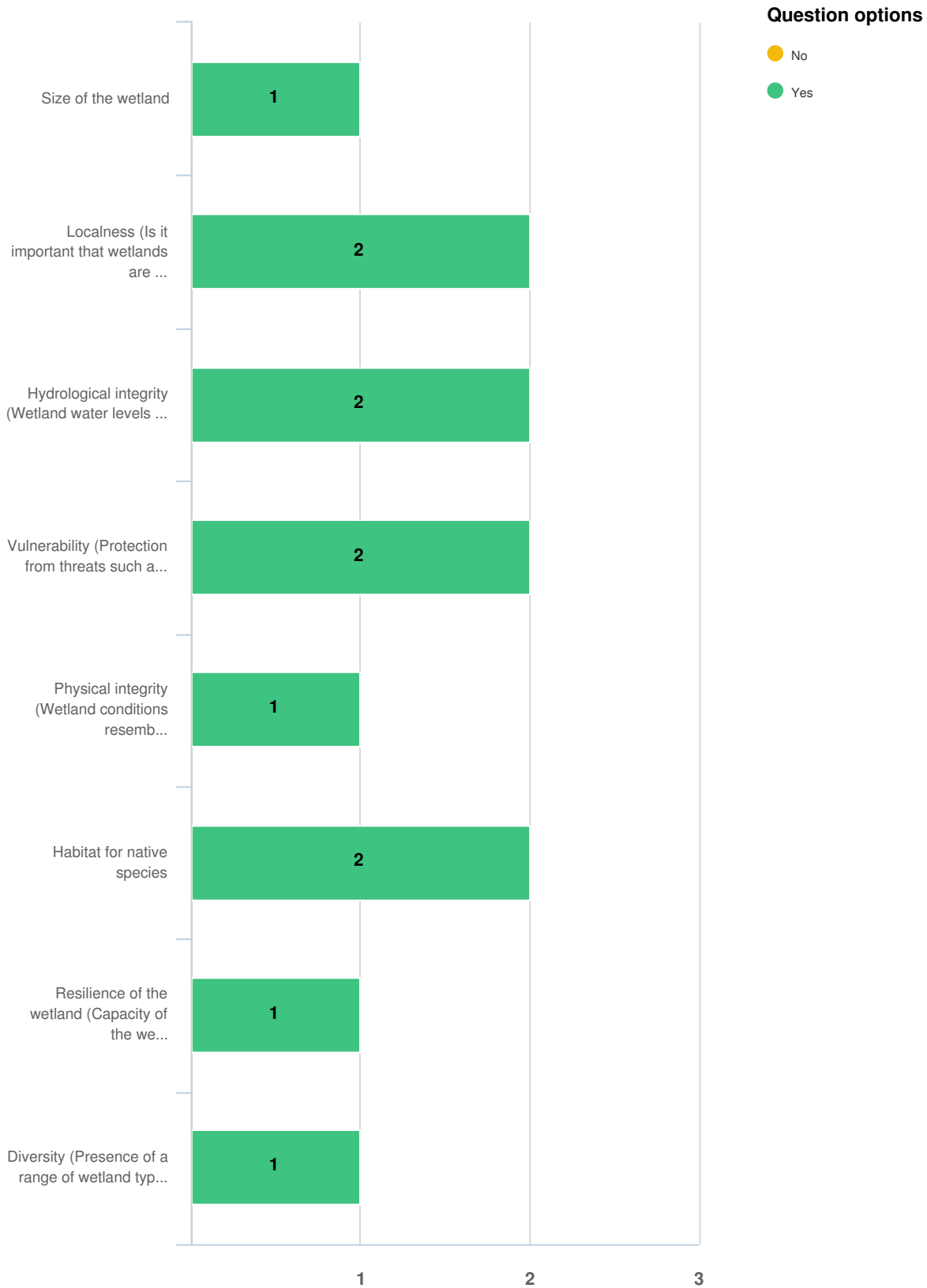
(1) Not being so afraid about losing access to irrigation water in the future and not having to worry about uncontrolled costs of accessing irrigation water in the future. (2) Clarifying what is meant by not wanting to have water drawn from one Rohe into another Rohe and the implications of this. Currently we access irrigation water through the Manuherikia Irrigation Society. It feels like we might be living in the wrong Rohe to access this even though we are just on the borderland of the Manuherikia Rohe. (3) Fair and equitable access to water. (4) As per comment above in Fishing, I think the real problem with treating each of the areas of interest separately is that fulfilling desires in one area may conflict with another area, eg Fishing versus Water Take/Use. But the way the survey is set up, this tension is simply avoided, this is a problem. I like fishing, it is relaxing, but if I can't irrigate my gardens (for food and fruit), I am unlikely to be going fishing or feel very relaxed about things.

Optional question (2 response(s), 13 skipped)

Question type: Essay Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q33 Regarding wetlands*, what matters to you?*A wetland is an ecosystem that supports plants and animals adapted to wet conditions and includes permanently or intermittently wet areas of land.



Optional question (2 response(s), 13 skipped)

Question type: Likert Question

Q34 How has this been over the last 5 years?



Optional question (2 response(s), 13 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

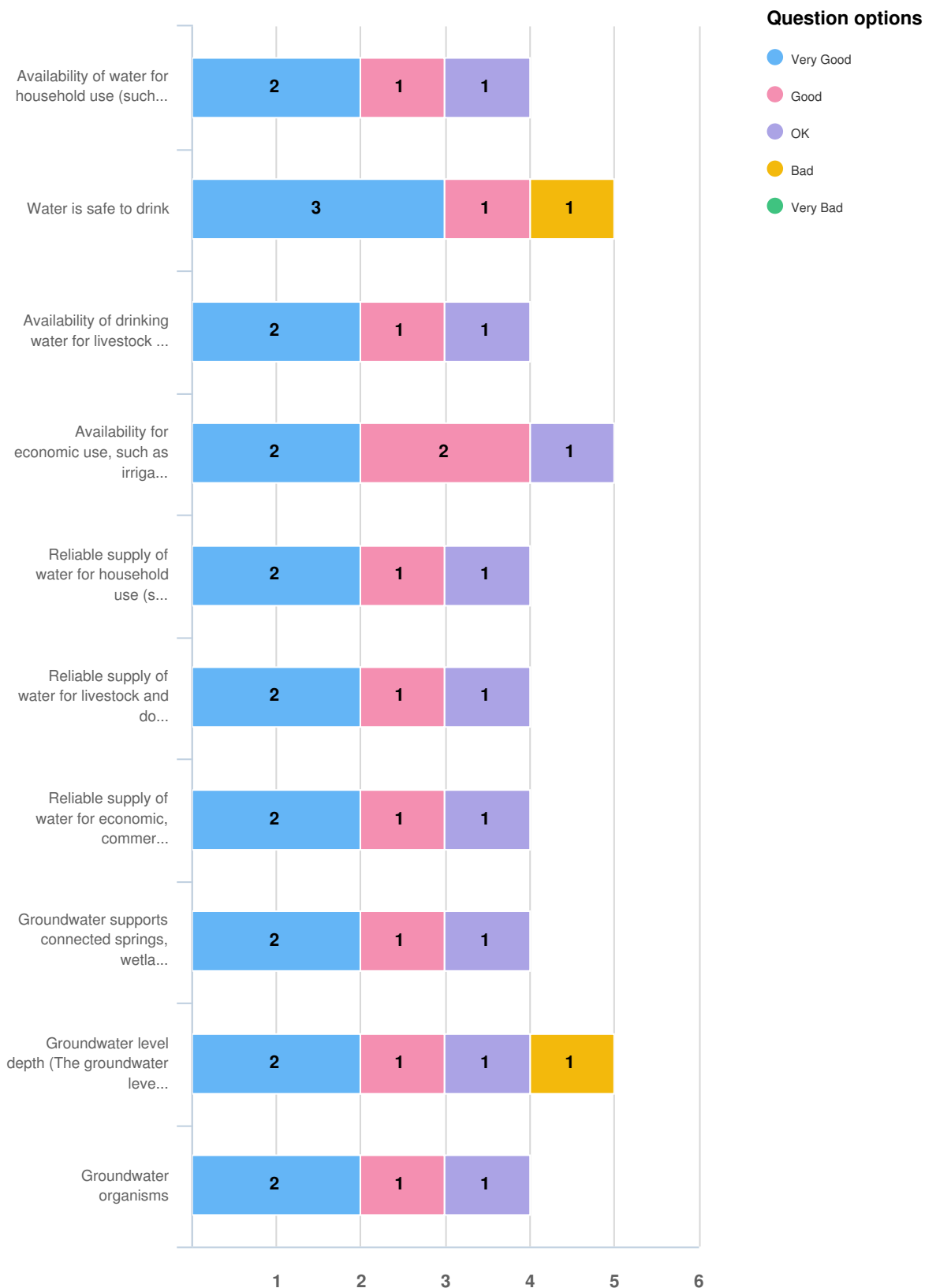
Q36 Regarding groundwater*, what matters to you?*Groundwater is the water that has infiltrated the soil beyond the surface and is present beneath earth's surface in gravels, soil and in the fractures of rock.



Optional question (5 response(s), 10 skipped)

Question type: Likert Question

Q37 How has this been over the last 5 years?



Optional question (5 response(s), 10 skipped)

Question type: Likert Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q38 Are there any other important characteristics you can think of? Please list them below.

Anonymous

3/27/2022 01:03 PM

Interconnection ie: between irrigation water sourced from the Manuherikia River and applied to land either upstream in the Manuherikia catchment, or to the Dunstan Flat which creates additional recharge of the Dunstan Flat aquifer. This assists in supporting the numerous individual bores which draw from that aquifer. (Refer ORC site monitoring data and increases in groundwater levels after irrigation commences each season, followed by reduction in levels in the irrigation off-season.) The quantum and dynamics of this aquifer likely need to be better understood to ensure the aquifer is maintained, and also, does not become over-allocated in the future.

Optional question (1 response(s), 14 skipped)

Question type: Essay Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q39 What else matters to you?

Anonymous

3/27/2022 01:03 PM

See **next question** below.

Optional question (1 response(s), 14 skipped)

Question type: Single Line Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Q47 Let us know if there is anything else you would like to tell us.

Anonymous

3/09/2022 08:16 AM

You need to meet in person with community as many not digital surveys many elderly

Anonymous

3/27/2022 01:03 PM

A specific matter of importance to us is the on-going ability for our scheme to serve the Dunstan Flat area (between Clyde & Alexandra) with sustainably delivered (ie: gravity conveyed) irrigation water sourced ex the Manuherikia rohe. The Rohe boundary lines, ie: as between the Roxburgh rohe and the Manuherikia rohe (as struck by ORC despite our voiced concerns,) have cut across our historical scheme command area. We are concerned about iwi's stated stance on cross-catchment mixing of water and how this may effect our scheme in the future. This is an significant issue for a large number of people who make up the Dunstan Flat community, and who are an important group of scheme shareholders. We respectfully suggest this matter needs to be considered and provided for in a manner that prevents us all from needing to be involved in future litigation simply due to a line on a map.

Anonymous

3/28/2022 02:28 PM

Depending on the definition of "catchment," and as an irrigation scheme delivering irrigation supply by way of gravity, we may be concerned about the iwi viewpoint of no cross-catchment mixing of water. This matter needs to be considered and clarified in a sensible policy to ensure well established scheme infrastructure systems and scheme dynamics do not become subject to nonsensical arguments in the future.

Anonymous

3/28/2022 03:23 PM

In planning for the future we should not dismiss the past when it comes to considering our existing communities, and why they have developed or are structured the way they are. For us there is a very strong interconnection between the Manuherekia rohe and the Roxburgh rohe by way of location, climate, geology, and the services of the Manuherikia Irrigation scheme. That scheme sources and delivers our irrigation supply via gravity, a highly sustainable method which will become more appreciated as time goes by. The scheme, along with others, also inadvertently assists with spring/summer recharge of the Dunstan Flat aquifer. Numerous landowners living between Clyde and Alexandra draw water from the aquifer for their domestic use This interconnection / interdependency between people,

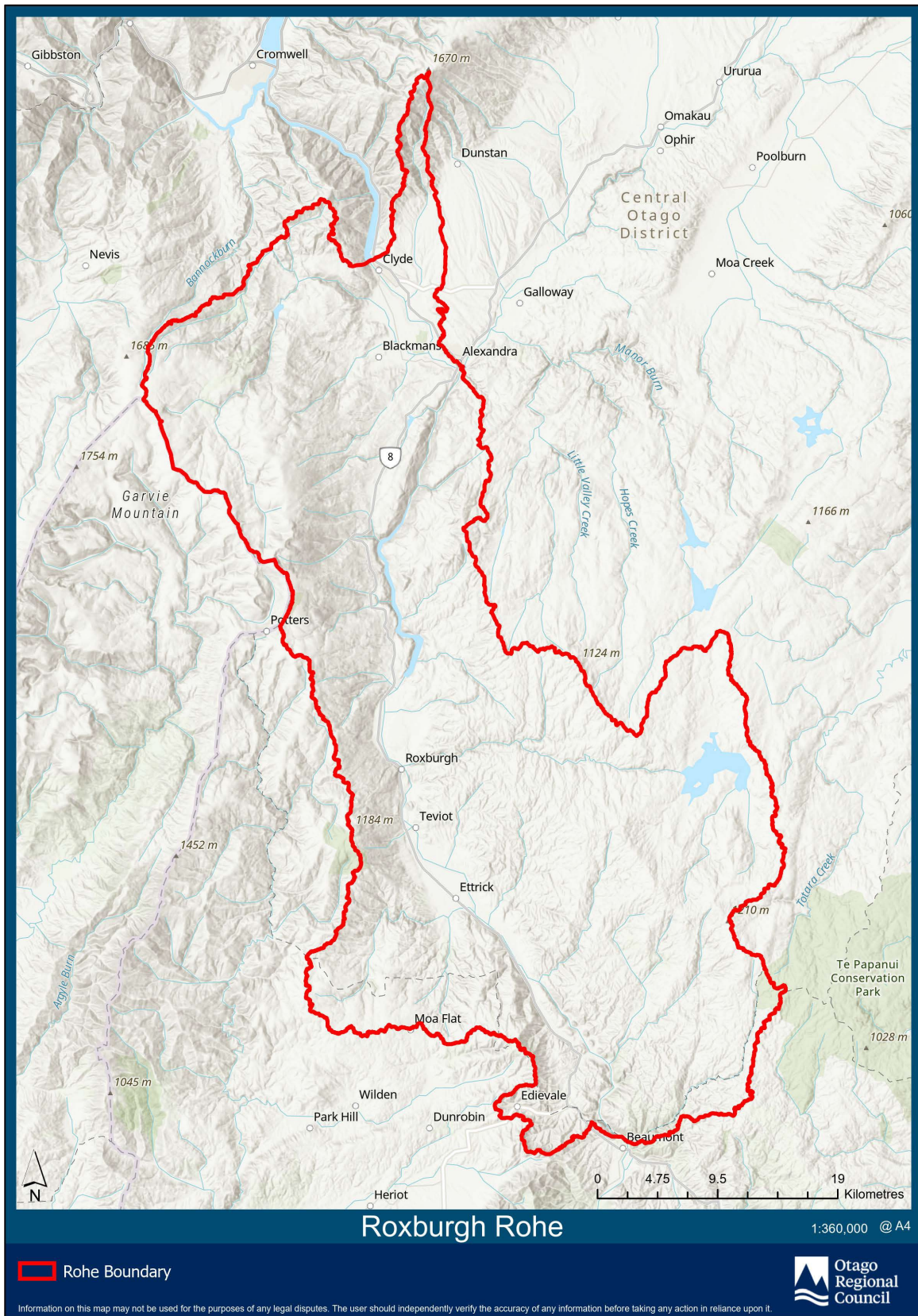
infrastructure and resources needs to be recognized, understood and provided for when policy makers are considering how iwi's stated cultural view on no cross-catchment mixing of water could impact our community and our irrigation scheme.

Optional question (6 response(s), 9 skipped)

Question type: Essay Question

Filtering by: Select below the FMU or rohe you are interested in. Roxburgh-Rohe

Appendix 2: Map of Roxburgh rohe



Appendix 3: Map of Clutha Mata-Au FMU



Appendix 4: Example of online survey

1. Select below the FMU or rohe you are interested in. *

Choose an option

2. Select the things that matter to you. *

- | | |
|--|--|
| <input type="checkbox"/> Swimming (and other primary contact recreational water activities) | <input type="checkbox"/> Fishing (and other secondary contact recreational water activities) |
| <input type="checkbox"/> Walking, camping, picnicking, sightseeing (and other non-contact recreational water activities) | <input type="checkbox"/> Plants or animals that live in or near water |
| <input type="checkbox"/> Threatened species | <input type="checkbox"/> Habitat |
| <input type="checkbox"/> Water quality | <input type="checkbox"/> River flow and lake level |
| <input type="checkbox"/> Natural character | <input type="checkbox"/> Water take/use |
| <input type="checkbox"/> Wetlands | <input type="checkbox"/> Groundwater |
| <input type="checkbox"/> Something else | |

3. Regarding swimming (or other primary contact recreational water activities*), what matters to you?

*Activities where your body or face are often underwater, wetted by spray, and where you are likely to swallow water.

	Yes	No
Temperature of water	<input type="radio"/>	<input type="radio"/>
Depth of water	<input type="radio"/>	<input type="radio"/>
Clarity of water	<input type="radio"/>	<input type="radio"/>
Colour of water	<input type="radio"/>	<input type="radio"/>
Water smell	<input type="radio"/>	<input type="radio"/>
Water current	<input type="radio"/>	<input type="radio"/>
Risk of getting sick	<input type="radio"/>	<input type="radio"/>
Clean river/lakebed	<input type="radio"/>	<input type="radio"/>
Scenery	<input type="radio"/>	<input type="radio"/>
Absence of rubbish	<input type="radio"/>	<input type="radio"/>
Access to water	<input type="radio"/>	<input type="radio"/>
Absence of algal blooms	<input type="radio"/>	<input type="radio"/>

4. How has this been over the last 5 years?

	Very Bad	Bad	OK	Good	Very Good
Temperature of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Depth of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clarity of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Colour of water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water smell	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Water current	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Risk of getting sick	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clean river/lakebed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Scenery	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Absence of rubbish	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Access to water	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Absence of algal blooms	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

5. Are there any other important characteristics you can think of? Please list them below.

Please add your comment here...

Appendix 5: Example of paper survey

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Swimming

Activities where your body or face are often underwater, wetted by spray, and where you are likely to swallow water.

Where do you swim in freshwater? Please list locations



Regarding swimming, what matters to you?	Yes		No		How has this been over the last 5 years?				
	Yes	No	Very bad	Bad	OK	Good	Very Good		
Temperature of water									
Depth of water									
Clarity of water									
Colour of water									
Water smell									
Water current									
Risk of getting sick									
Clean river/lakebed									
Scenery									
Absence of rubbish									
Access to water									
Absence of algal blooms									
Are there any other important characteristics you can think of?									

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Fishing (secondary contact recreational water activities)

Activities where only your arms and legs are in contact with the water, like kayaking, boating, duck shooting and wading.

Where do you fish in freshwater? Please list locations

Regarding fishing, what matters to you?	Yes		No		How has this been over the last 5 years?				
	Yes	No	Very bad	Bad	OK	Good	Very Good		
Temperature of water									
Clarity of water									
Colour of water									
Water smell									
Water current									
Risk of getting sick									
Clean river/lakebed									
Abundance of fish									
Presence of diverse species									
Fish size									
Scenery									
Depth of water									
Presence of food sources for fish (e.g., invertebrates)									
Access to water									
Absence of algal blooms									
Are there any other important characteristics you can think of?									

Appendix 6: Example of online mapping tool

