Regional District of Okanagan - Similkameen

Naramata Liquid Waste Management Plan (LWMP)
Stage 2 Siting Options

Open House No. 1
Survey Summary

McElhanney

CANADA BEST MANAGED COMPANIES
Platinum member

Survey Summary Outline

- Purpose of LWMP
- Purpose of Survey
- Survey Results

LWMP Purpose

- Community specific
- Framework for future decisions related to wastewater management
- Ensure reduced environmental impact
- Ensure consistency w/ public health objectives
- Ensure infrastructure meets current & future needs
- Requires public consultation to reflect community needs
- Requires Ministry approval at each of 3 Stages
- Requires final approval by Provincial Minister

A LWMP is NOT

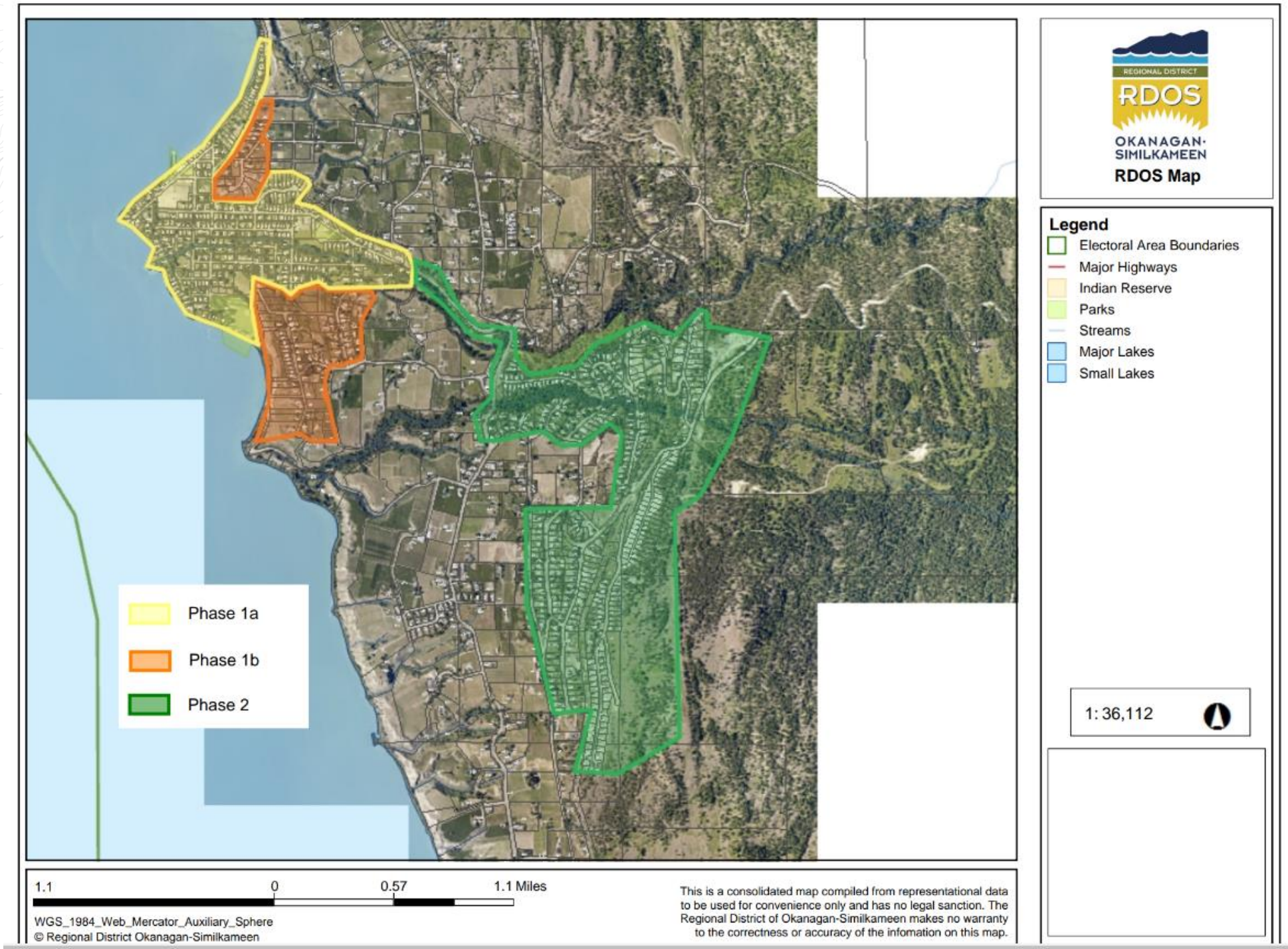
- A short-term plan
- Updated yearly (ie. Naramata LWMP last updated in 1994)
- Modifiable based on personnel changes
- Developed to support densification
- A construction ready design
- Implemented without more detailed studies

Open House No. 1 – Survey Purpose

- Collect comments and general information from the community

- Collect comments, preferences and concerns related to three (3) Community options:
  - Community Treatment Plant
  - Partial Community Treatment System
  - Pumping to City of Penticton

Naramata Community Yellow and Orange Zones Identified For Phase 1 of the LWMP



Open House No. 1 – Survey Results

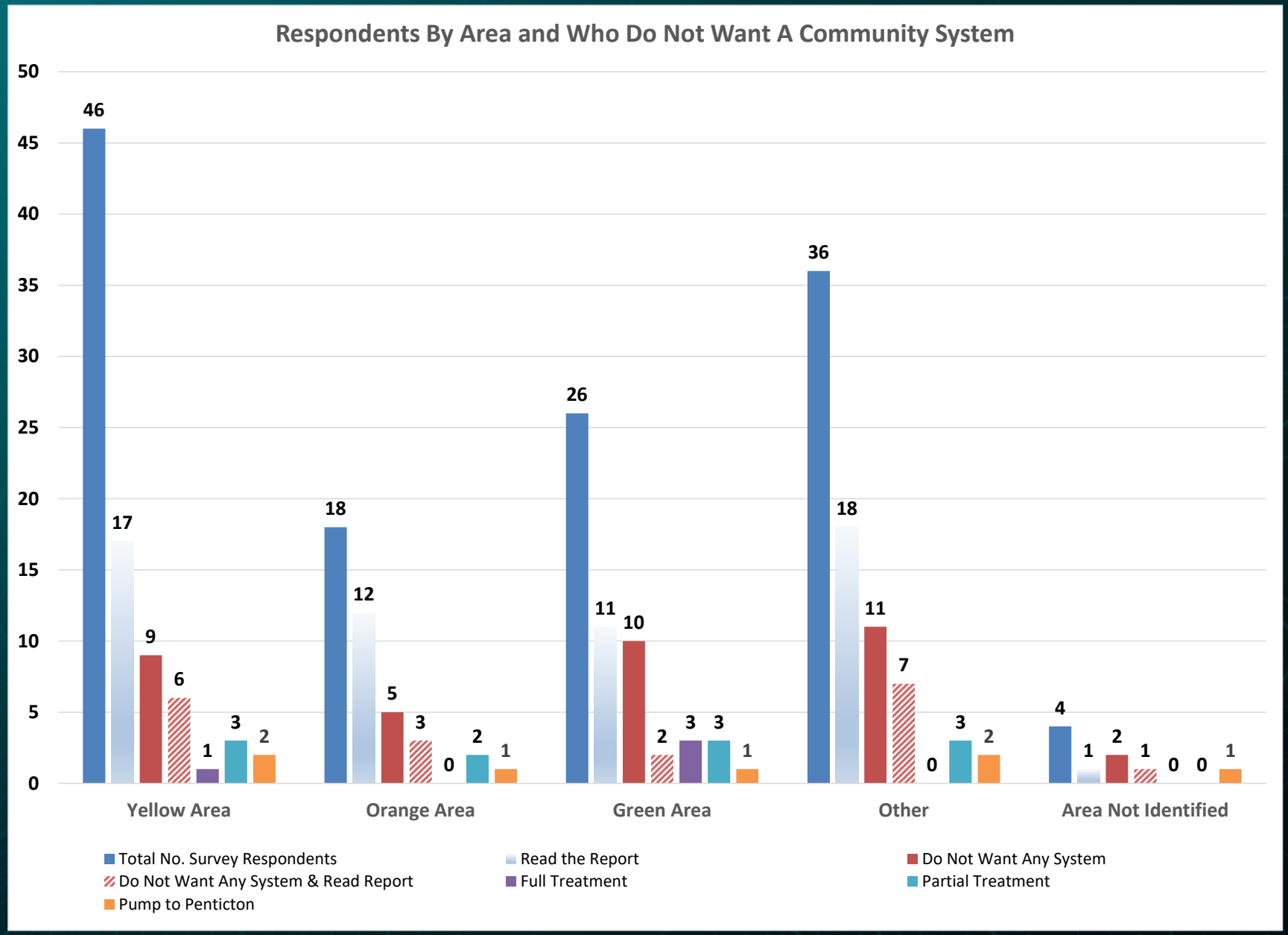
General Statistics

No. People	Description
45	Attended the Open House
130	Answered the Survey
73	Stated the Open House Presentation was clear – assumes some people reviewed the Presentation online
59	Read the Stage 1 Report
35	Stated the Presentation was clear & read the report

Did everyone answer the survey based on the same information?

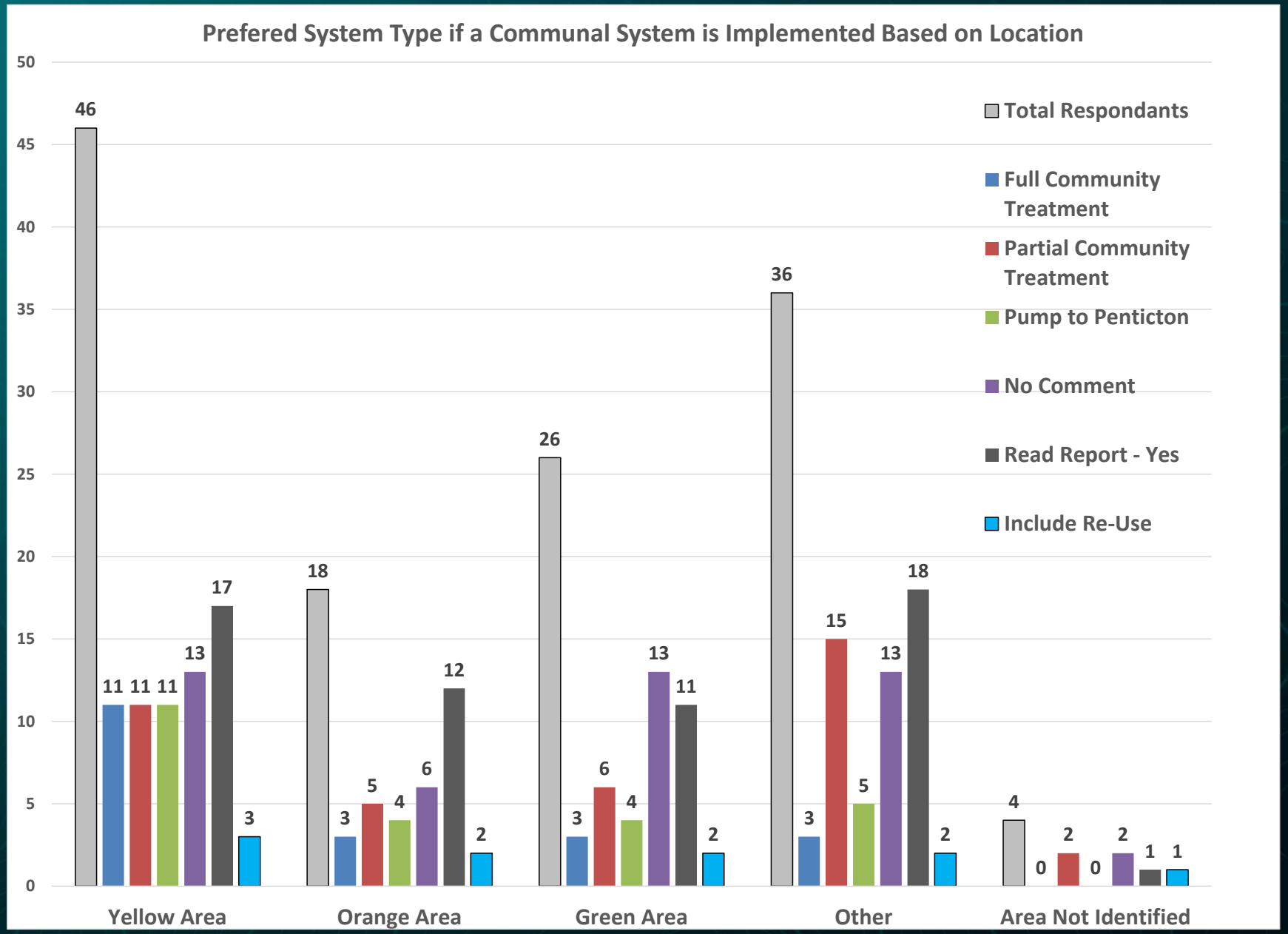
Open House No. 1 – No Community System

- 37 of 130 respondents want NO Community System (Counted a “no” if mentioned anywhere in the survey)
  - Of 37, 19 read the report
  - Of 37, 22 identified a preferred community system
- 19 Hard Copy Responses:
  - 14 included a pre-filled attached comment sheet
  - 10 located in the Green Area, outside of the LWMP study area



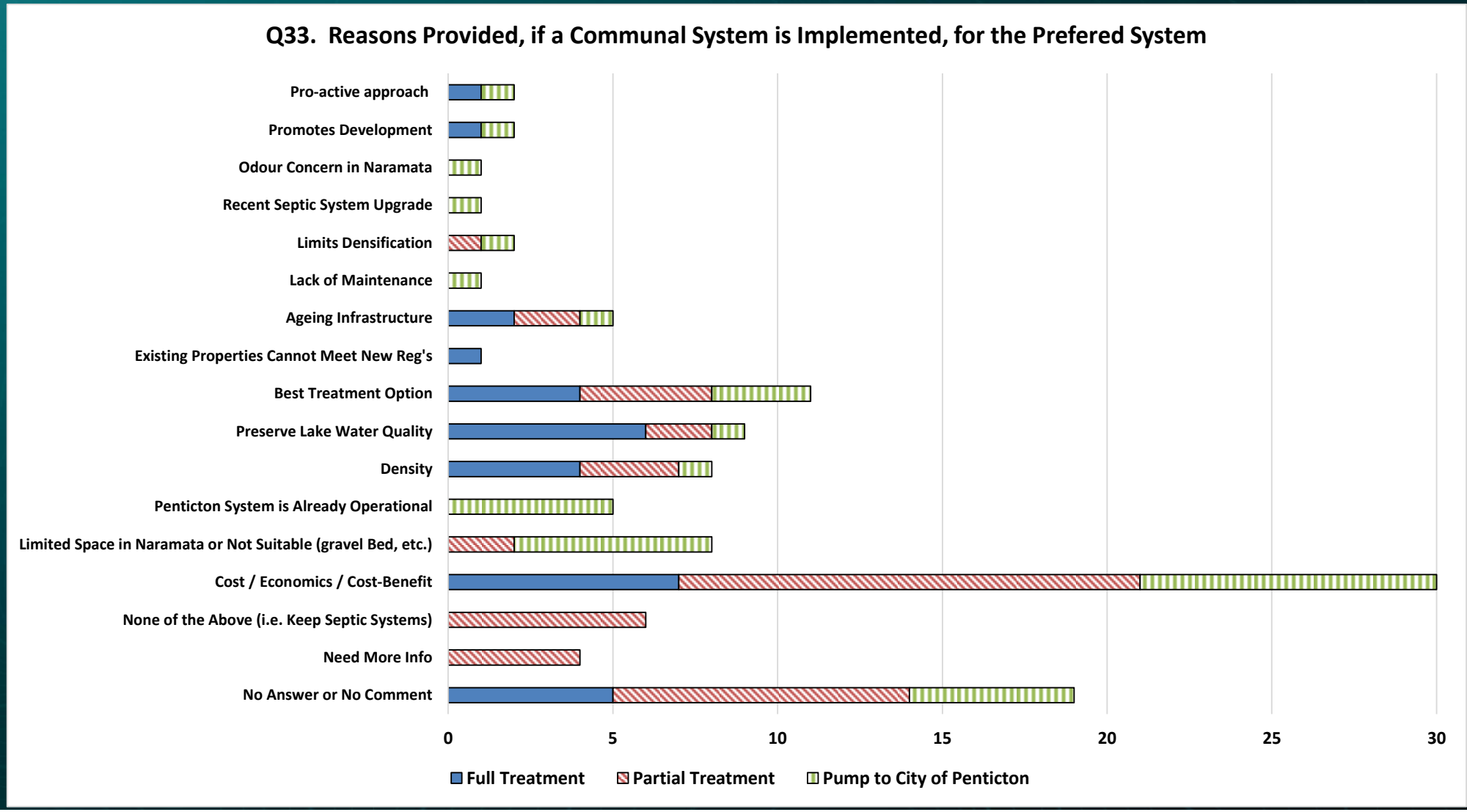
Open House No. 1 – Preferred Community System

- Of the 3 community options, no real preference by those most affected (Yellow & Orange areas)
- Results skewed by respondents outside the Yellow, Orange, Green areas towards a partial system



Open House No. 1 – Survey Results

Reasons stated for why a specific community system might be preferred



Open House No. 1 – Survey Results

Reasons stated for why Full Community Treatment system might be preferred

- Lowest cost per user
- Include as many properties as possible
- Preserve lake water quality
- Density, age and village being built on a delta
- Population increase is inevitable; more creeks may become polluted as additional septic fields are built.
- Orange area adjacent to a steep cliff susceptible to collapse; over watering due to irrigation or septic fields will likely worsen this concern.
- Many yellow area properties are not large enough to accommodate a new system that meets BC's Municipal Wastewater Regulation and they have no room for a back-up field.
- A treatment system will allow for densification which will allow the cost to be spread over a larger number of households.

Open House No. 1 – Survey Results

Reasons stated for why Partial Community Treatment system might be preferred

- Lowest capital cost *(but not per user)*
- Smaller footprint than full sized WWTP *(but not proportionally)*
- Improved lake water quality
- Lower Operation & Maintenance costs compared to Full System
- Can focus treatment on denser areas and/or properties closest to the lake
- Commercial properties would benefit from a commercial system; restaurants and motels struggle with their septic systems.
- Seems like smallest impact on the land w/ largest impact on the lake
- Modern septic systems are efficient and hillside systems are working
- Older septic systems closest to the lake likely pose the greatest risk to lake quality
- The village is on a gravel bed; more research is required to understand the soils before implementing a larger system.

Open House No. 1 – Survey Results

Reasons stated for why Pumping to Penticton might be preferred

- Lowest cost per person *(still needs to be costed out)*
- Lack of available land in Naramata
- Odour concerns *(can be addressed in design)*
- Existing system is already working; no duplication of staff. Penticton has one of the best treatment plants in the country
- More cost-effective maintenance, technology upgrades, expansion
- A WWTP in Naramata would likely very quickly be too small and could not accommodate new development
- Limits development and maintains village lifestyle
- Allows for more tie-ins along the way
- Allows for cost sharing
- Some people want alternative options

Open House No. 1 – Survey Results

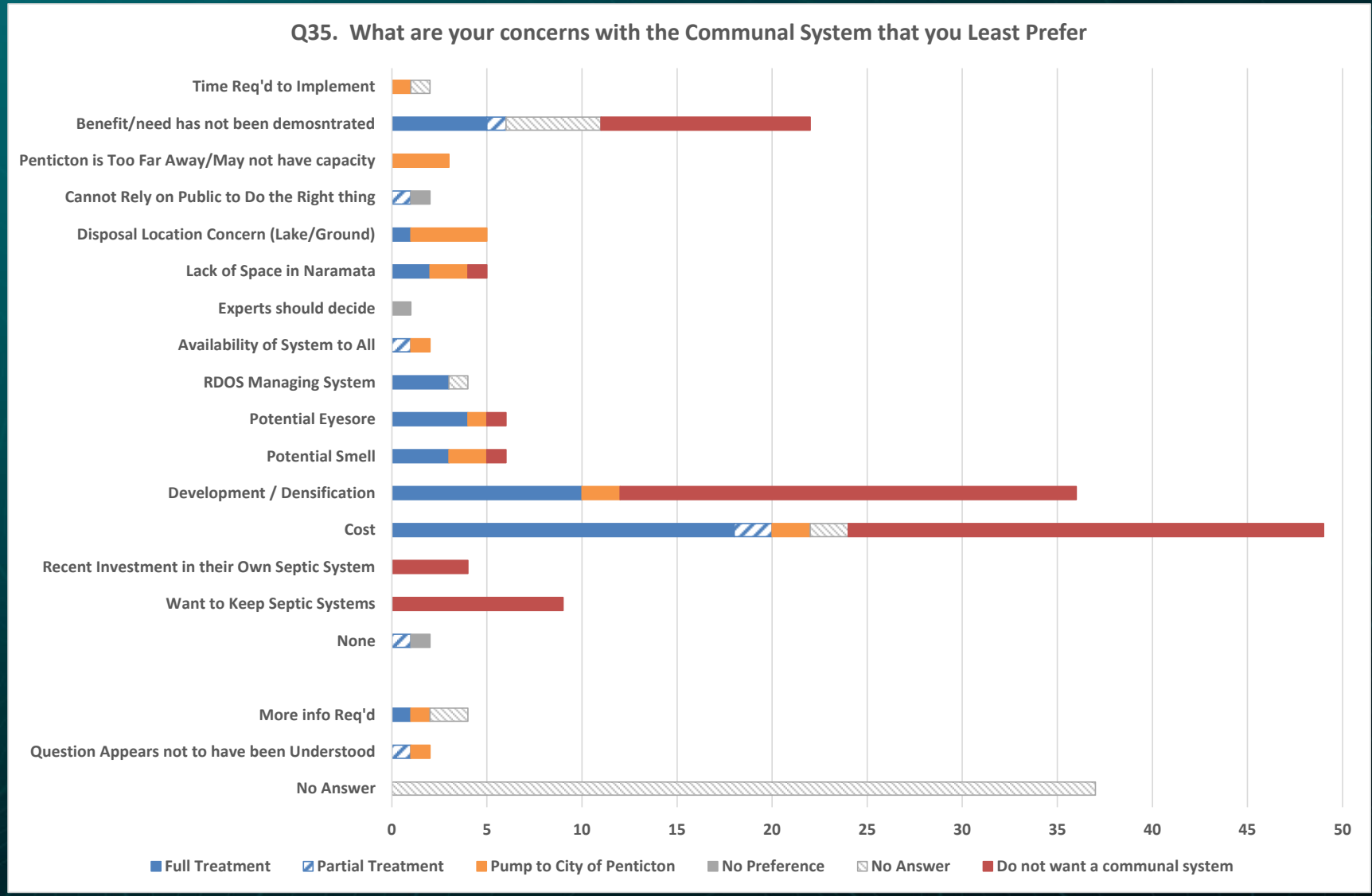


OK Falls &
Emerald Lake Lodge
WWTPs



Reasons why a particular community system was least preferred

- *more than 1 reason could be provided*
- *Same answers given for different options totaled together, e.g., "Potential Eyesore" noted by 4 people who do not want a full treatment system, 1 person who does not want to pump to the city and 1 person who wants no system*



Open House No. 1 – Survey Results

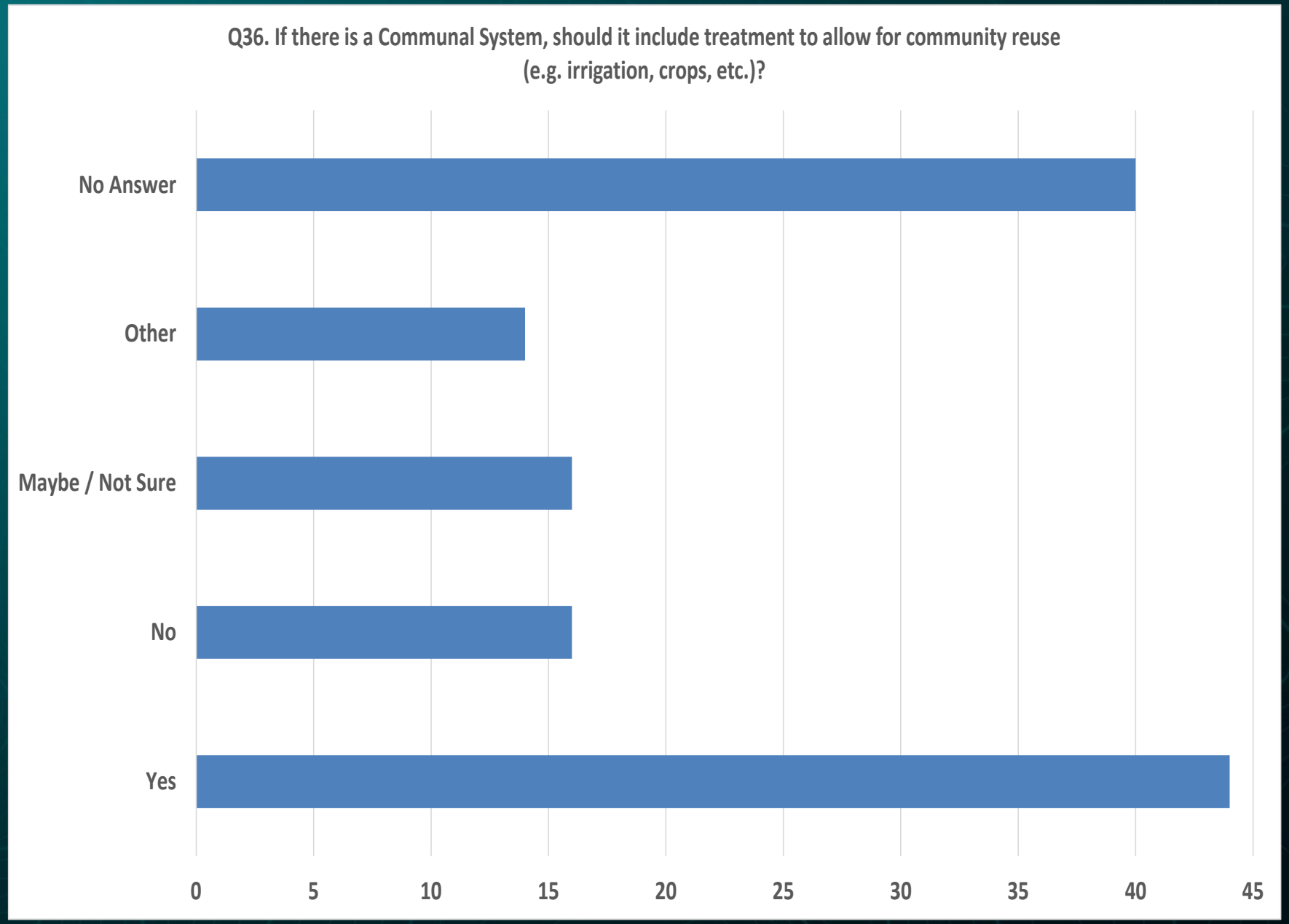
Reasons stated for why a particular community system was least preferred

- Penticton - Too far away and might not have the capacity
- Naramata - Disposal location concern (lake/ground)
- Naramata - Lack of space
- Naramata - Tie-in to a system would not be available to all
- Naramata - Visual and/or odour concerns
- Naramata - Time to implement
- All 3 systems - Cost concern

(Reasons mentioned most often listed here)

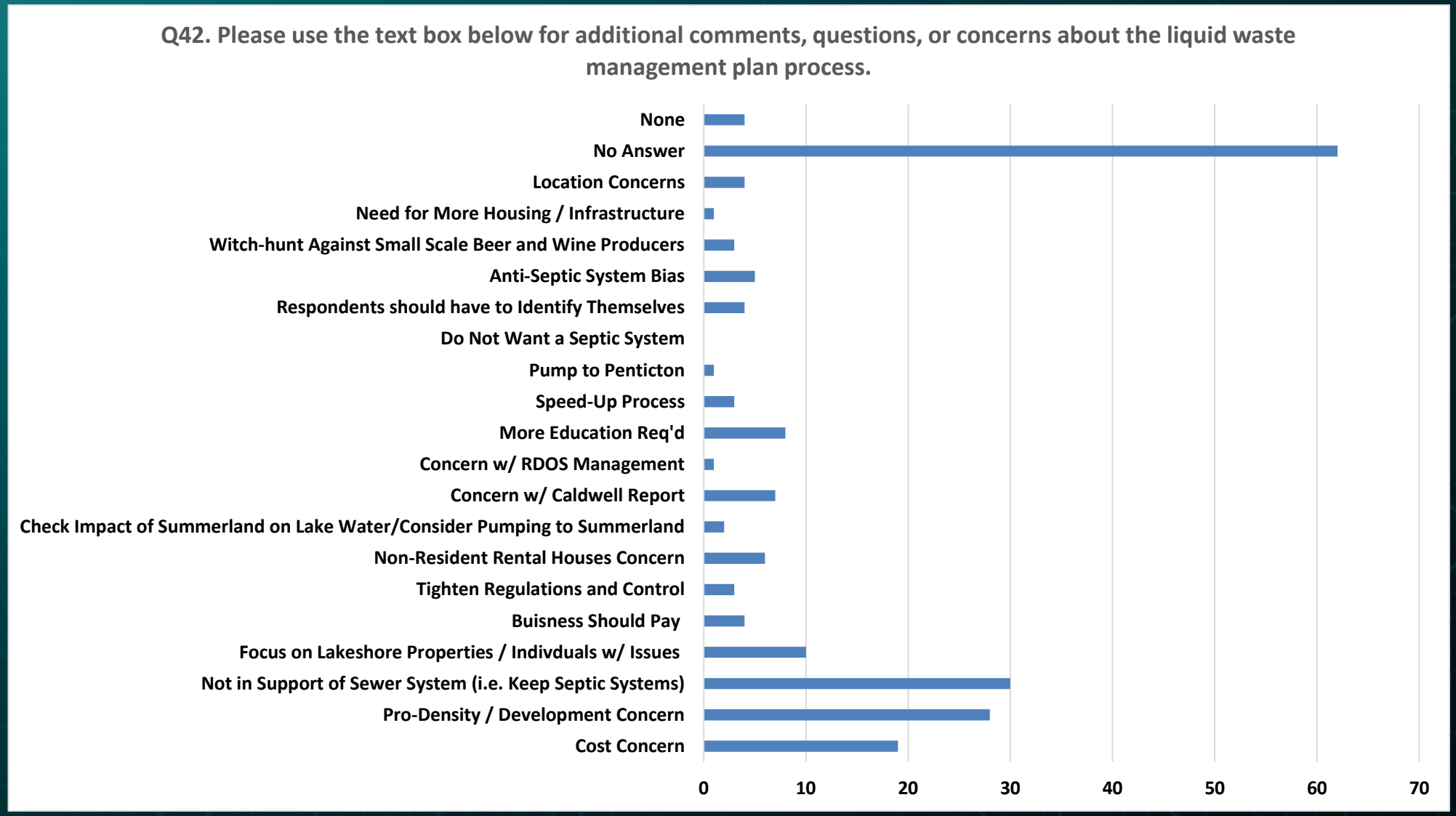
Open House No. 1 – Water Re-Use

- 44 respondents think water re-use should be implemented.
- 16 respondents are not sure, with some saying it depends on the cost
- 16 are not interested in water re-use
- 54 did not answer



Open House No. 1 – Survey Results

General comments/ concerns regarding the LWMP process



Open House No. 1 – Survey Results

- **Home Brew and Wine Making – why the questions?**:
  - The high concentration of wastewater from these activities impacts sizing of WWTPs (and also overwhelms septic systems).
  - A Naramata WWTP would have to be designed to account for these activities
    - The City of Penticton's influent wastewater concentration has increased approximately 3X due to micro-breweries in the City.

Open House No. 1 – Survey Results

➢ **Other comments**:

- Respondents should have to identify themselves
- More education required
- Non-resident rental housing and over-use of existing septic systems a concern
- Need more housing/infrastructure
- Regulations should be tightened
- Focus on lakeshore properties/properties with issue

Open House No. 1 – Survey Results

- **Other comments**: *"The yellow area in particular has homes on lots that would not be allowed to have type 1 systems today. They have aging systems and have been using the same field for years with no room for a backup field. While lake properties are an issue, putting focus on only those, ignores the fact that most of the lower village has an issue. If all of the lower village had to move to type 2 or 3 system (which they should without a communal system), the cost per residence would be very high. We cannot ignore the fact we have a bigger issue than just the lake front and the RDOS is doing a dis-service when they don't make that clear and allow a few citizens to mislead the majority into thinking the issue is being made up and the water study is not conclusive. Please explain that most systems in Naramata would not be allowed today and we need to plan for an alternate solution."*

Next Steps

- No clear preference for any Communal Systems
- Stage 2 – Open House No. 2 will:
  - Evaluate all 3 community options further
  - Address the concerns raised during Open House No. 1 and survey
  - Review the individual and three (3) community options, including estimated costs
  - Review the costs associated with treatment to achieve re-use quality
  - Review the next steps of the LWMP process

Next Open House:

Spring 2024

Date will be advertised:

- RDOS Regional Connections
- RDOS Facebook
- MyNaramata.com

End of Open House No. 1 Survey Summary

Thank You

McElhanney

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Platinum member