



WESTSIDE SITESPEAK

Wastewater Treatment & Resource Recovery

WESTSIDE SOLUTIONS INTERIM REPORT

Introduction:

Determining where and how to treat our wastewater is one of the important decisions our region has faced. Over the past few months Westside Solutions has engaged citizens from across the four participating municipalities and two First Nations on the west shore through Open Houses, Surveys, Roundtables, Innovation Days, public fairs and events, website postings, Facebook, Twitter and individual conversations.

SiteSpeak is the current online platform that is engaging residents to provide their input into possible sites and technologies to deal with our wastewater that meets the objectives of being environmentally beneficial and economically responsible.

The following is an interim report based on the input of 320 of respondents. The intent is to give citizens and decision makers a snapshot of the raw data at that moment in time, as well as some indication on what the respondents' opinions of possibilities and disadvantages are regarding the proposed options.

Some important things to note about SiteSpeak:

- only one survey completion is allowed through each email address,
- respondents are allowed to skip questions if they did not wish to respond,
- At the end of the survey respondents can see the statistical results to date (graphs).

General Observations:

The majority of comments on SiteSpeak have been constructive. Even those expressing concerns over specific sites or issues have been valuable in contributing to the conversation as we move forward to find a solution.

There are common themes and conditions expressed throughout the responses, regardless of site location including:

- ensuring odour control/elimination from any facility
- minimizing traffic
- minimizing noise
- complementing any environment where a facility is built
- ensuring public safety – including taking into account sea level rises
- developing and maintaining trust through on going public involvement

There is also a large appeal for further detailed information including;

- all costs (life cycle and ancillary infrastructure),
- cost comparisons between each option,
- potential environmental impacts, and
- realistic resource recovery benefits and liabilities

Responses to date indicate that meeting environmental objectives in a financially responsible way will be heavily studied by those citizens who are engaged.

TECHNCIAL COMMENTS

- Analysis must continue to respect the criteria and priorities established to date including the themes and conditions outlined in the report
 - There is a strong need for detailed economic and technical feasibility analysis of option sets to inform next round of public input on option set choices
 - Analysis should cover the range of possibilities of system configurations: centralized and / or dual-plant and up to a distributed wastewater treatment and resource recovery model.
 - Treatment should exceed secondary levels and in particular, treatment to higher levels should occur for water reclamation where there is a justified need
 - Residuals solids recovery is preferred at a more local-scale instead of at Hartland
-

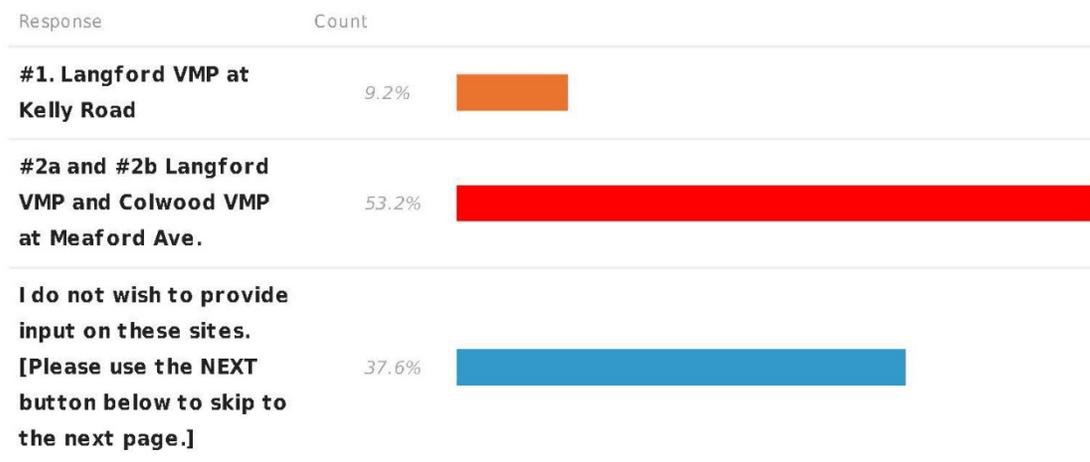
Sites:

LANGFORD SITE NODE:

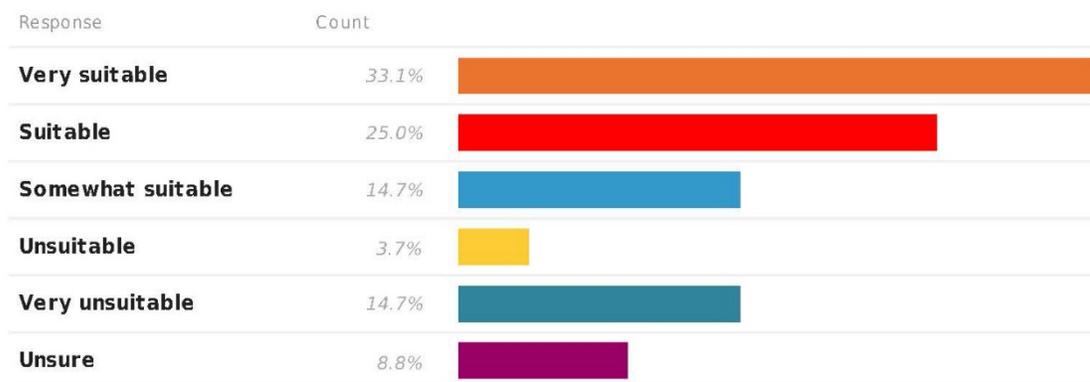
Preferred site:

The majority of respondents chose THE Langford/Colwood VMP at Meadford (Site #2a/2b)

LANGFORD: Please choose your preferred site within this node:



How suitable do you consider this site in terms of how the land is currently used, how wastewater resource facility would fit with the surrounding area and future plans for the community?



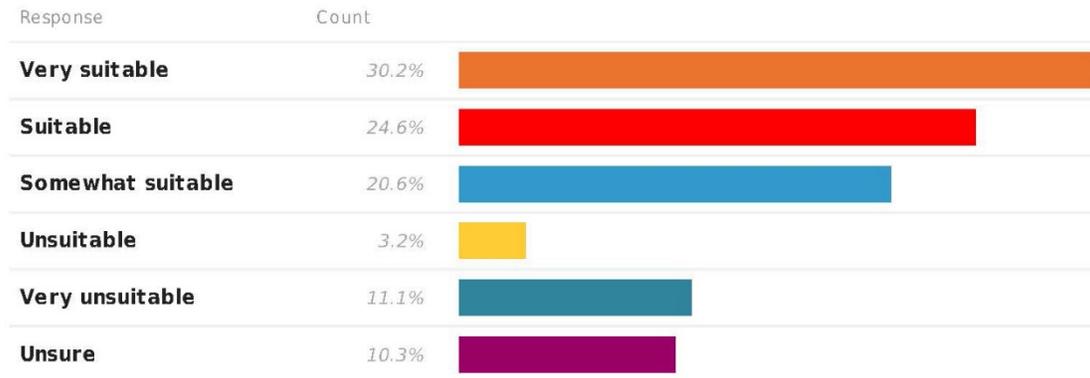
Benefits:

- site not adjacent to residential
- close to infrastructure
- high water reclamation opportunities

Concerns:

- privately owned therefore could increase costs
- conflicts with current zoning
- increased traffic could be a problem

How suitable do you consider this site in terms of potential for use of reclaimed water and energy recovered from the treatment process?



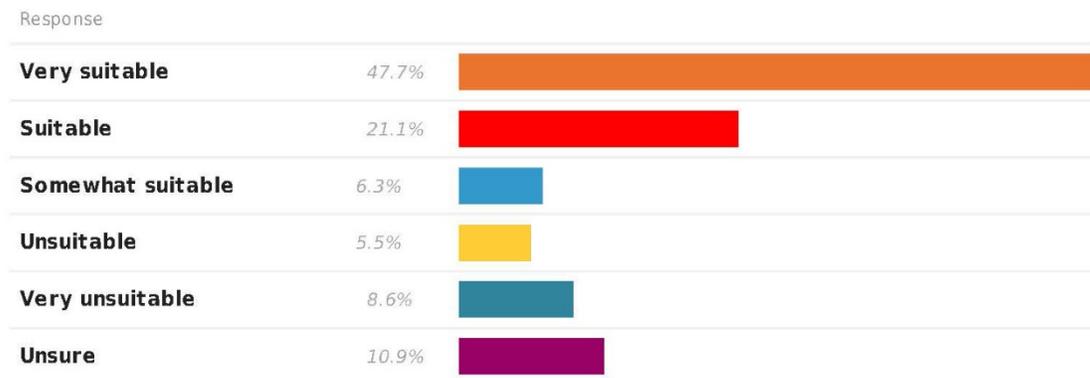
Benefits:

- high water re-use opportunities
- potential new opportunities for heat recovery including both private and public buildings

Concerns:

- heat recovery would take more work as there are few at this time
- health concerns over water re-use

How suitable do you consider this site in terms of how close it is to existing sewer trunk and truck routes?



Benefits:

- well situated to existing trunk lines and truck routes
- very accessible

Concerns:

- possible increased traffic issues – particularly as it is close to a school

What conditions would need to be met in order for you to consider this site suitable?

- must fit in with the community – to the point of being “invisible
- no odour or noise pollution
- cannot comment without more information on design, cost or potential reclamation opportunities

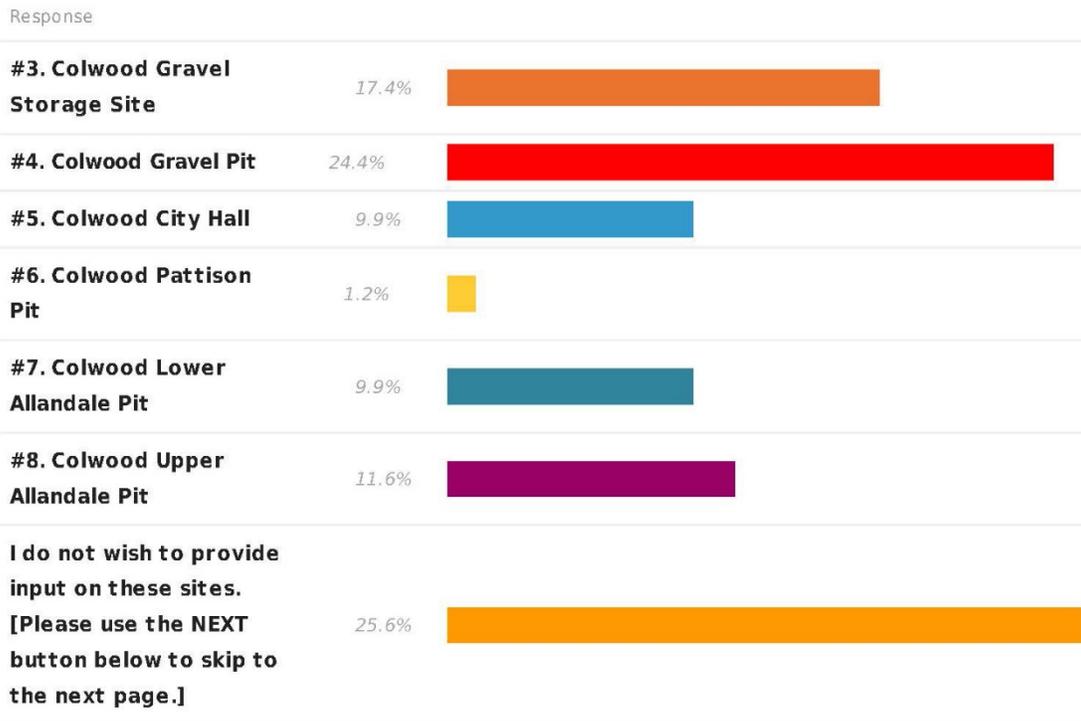
TECHNICAL COMMENTS

- Site 2a:2b is large enough to accommodate liquids and residuals treatment at sub-regional scale
- Public input suggests any facility should tie into existing and future uses and be partly hidden
- A facility at 2a:2b is better suited a distributed-type plant with residuals processing located at an alternate site (to accommodate the input of being partly hidden)
- Site acquisition or assembly requires further study

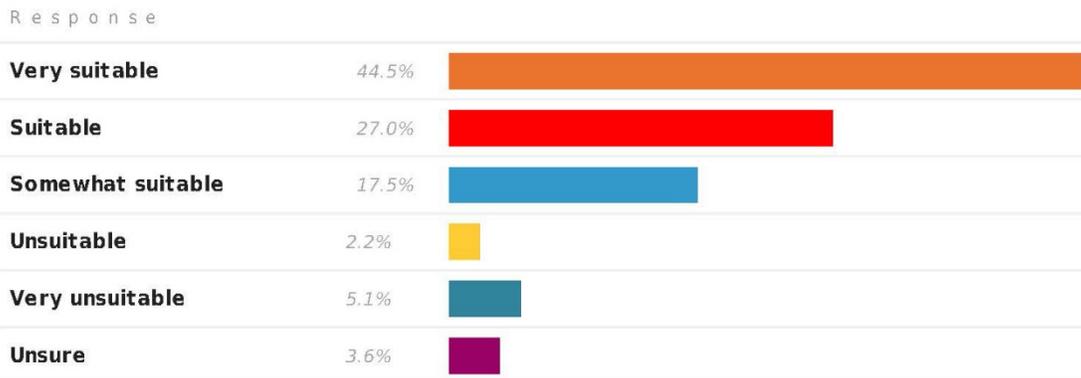
COLWOOD SOUTH – CENTRAL NODE:

Preferred site:

The majority of respondents chose the Colwood Gravel Pit (Site #4).



How suitable do you consider this site in terms of how the land is currently used, how wastewater resource facility would fit with the surrounding area and future plans for the community?



Benefits:

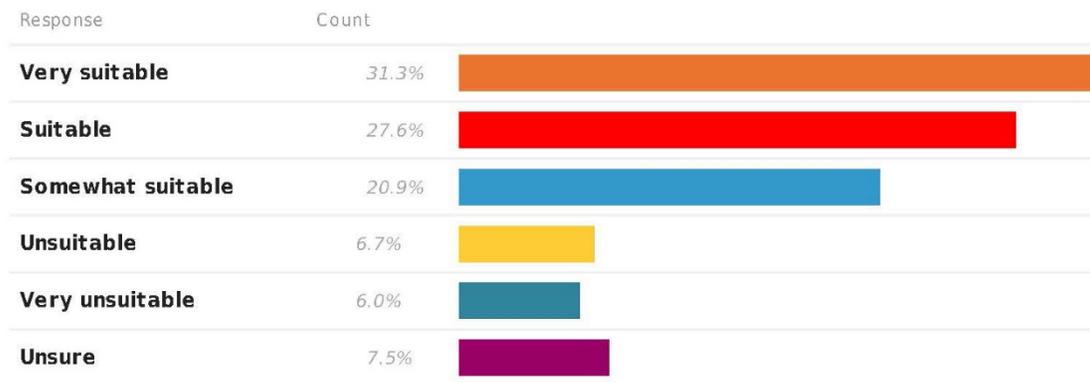
- growth in area could see more resource recovery
- currently undeveloped and available
- expansion possibilities

Concerns:

- could deter future investment and development opportunities

- currently limited resource recovery options

How suitable do you consider this site in terms of potential for use of reclaimed water and energy recovered from the treatment process?



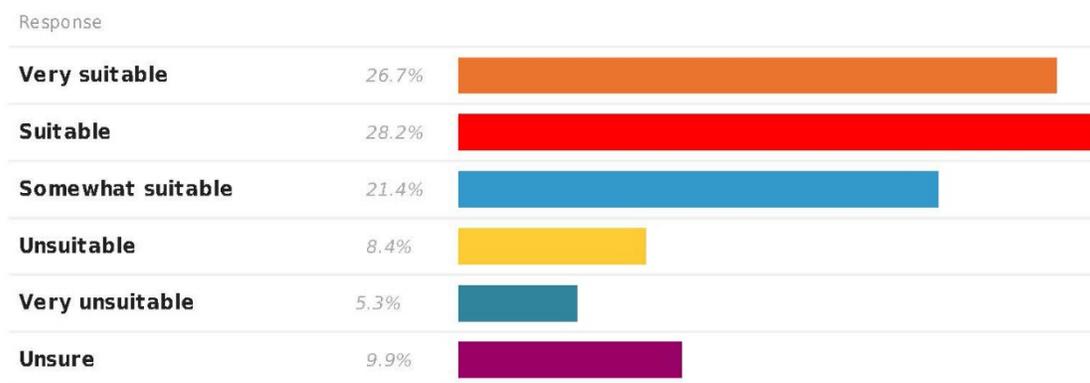
Benefits:

- opportunities for utilizing reclaimed water and energy into future developments

Concerns:

- heat and water reclamation not a priority
- too far from existing facilities

How suitable do you consider this site in terms of how close it is to existing sewer trunk and truck routes?



Benefits:

- roads with close proximity
- room for expansion

Concerns:

- too far from existing outfalls
- current access goes through residential neighbour hood

What conditions would need to be met in order for you to consider this site suitable?

- no conditions – this is bad for investment
- would require additional consultation with residents in the area
- must be invisible

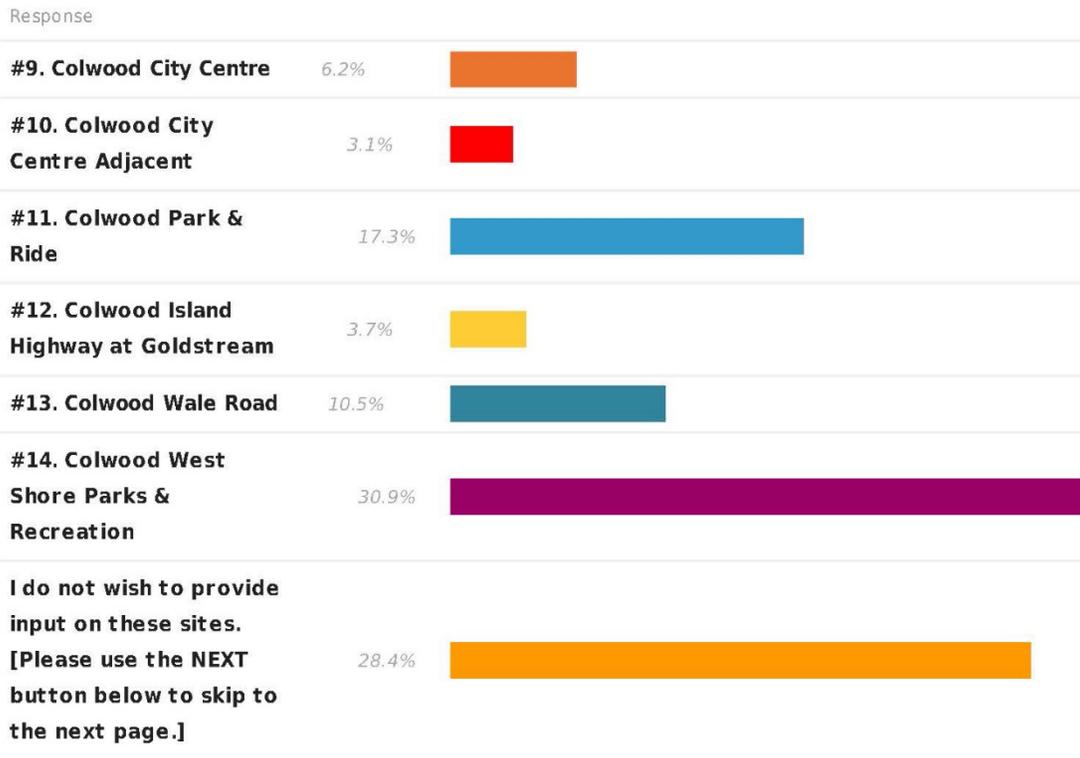
TECHNICAL COMMENTS

- Servicing Site 4 requires greater infrastructure needs (e.g. length of pipe and new outfall) and a lesser opportunity for resource recovery than sites in other Option Sets
- Site 4 demonstrates some potential for a satellite facility phased in over time with growth at Royal Bay (e.g. to eliminate cost of rerouting flows across the sub-region)
- Site acquisition requires further study
- Note: Similar technical considerations apply to Site 3 (both received public support)

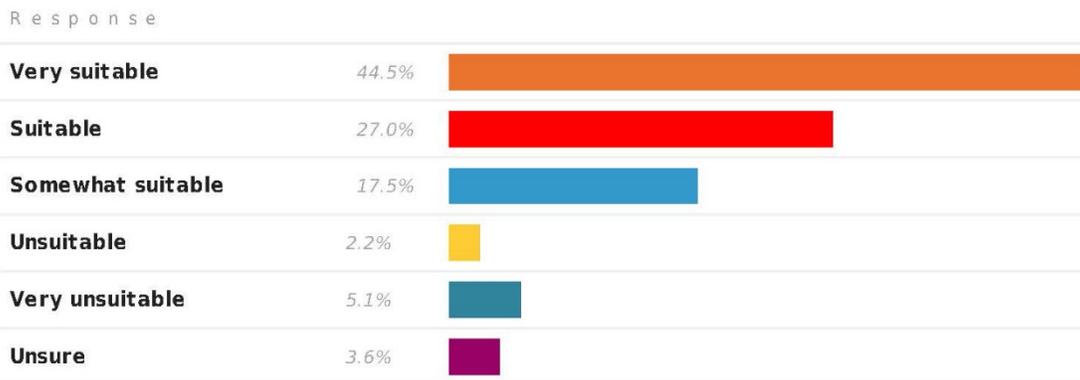
COLWOOD NORTH NODE:

Preferred site:

The majority of respondents chose the Colwood West Shore Parks & Recreation (Site #14).



How suitable do you consider this site in terms of how the land is currently used, how wastewater resource facility would fit with the surrounding area and future plans for the community?



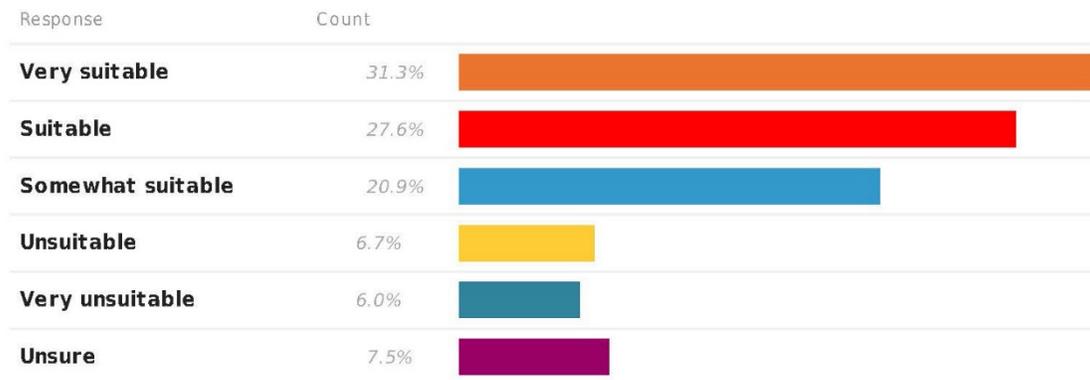
Benefits:

- high potential for resource recovery
- reasonable distance from residential
- publically owned

Concerns:

- needs to at least comprise to maintain the park

How suitable do you consider this site in terms of potential for use of reclaimed water and energy recovered from the treatment process?



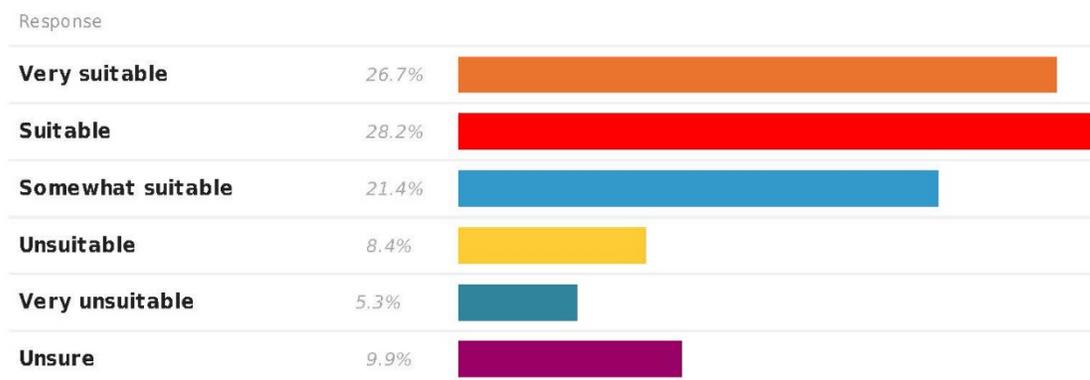
Benefits:

- possible benefits for the recreation centre and surrounding park
- adjacent to other services

Concerns:

- none at this time

How suitable do you consider this site in terms of how close it is to existing sewer trunk and truck routes?



Benefits:

- extremely close
- good proximity to highway

Concerns:

- none at this time

What conditions would need to be met in order for you to consider this site suitable?

- appropriate amenities
- that enhance park values and recreational use
- maintain park and ride

TECHNCIAL COMMENTS

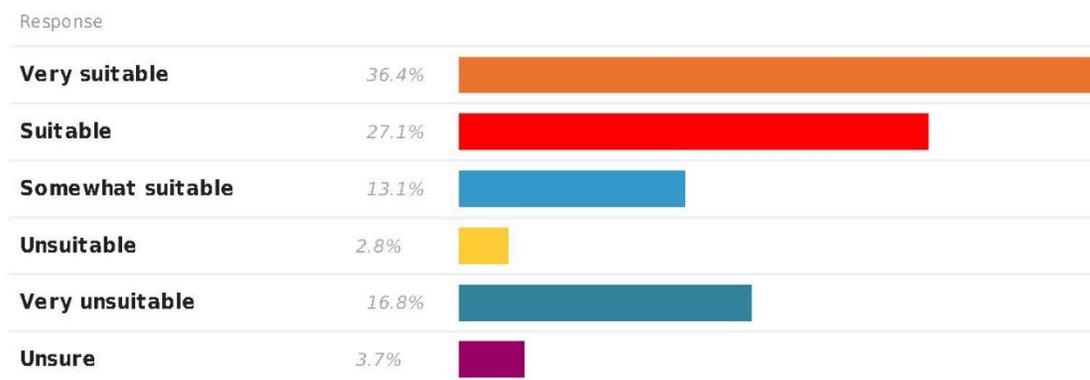
- Site 14 is sufficiently large enough to accommodate a sub-regional facility including liquids and residuals processing
- Site 14 is better suited to a distributed model to prevent directing large flows from the View Royal, Esquimalt and First Nations back up the sewer-shed (e.g. need for significant pipes and pump stations)
- Further study needed on governance for use of the Site 14 (inter-municipal lands) as wastewater facility and identifying the preferred location for any facility (e.g. identifying where there is surplus lands)

VIEW ROYAL NODE:

Preferred site:

There is only one site in this node View Royal Burnside & Watkiss (Site #16).

How suitable do you consider this site in terms of how the land is currently used, how wastewater resource facility would fit with the surrounding area and future plans for the community?



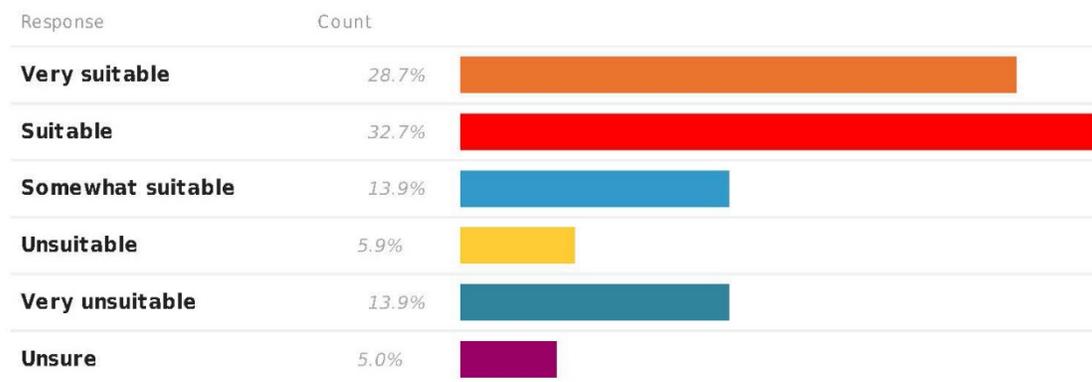
Benefits:

- publically owned and currently vacant
- not too close to residential
- good proximity to transportation and resource recovery opportunities

Concerns:

- parkland/recreation opportunities need to be reserved
- too close to hospital/school/residences
- possible archeological issues

How suitable do you consider this site in terms of potential for use of reclaimed water and energy recovered from the treatment process?



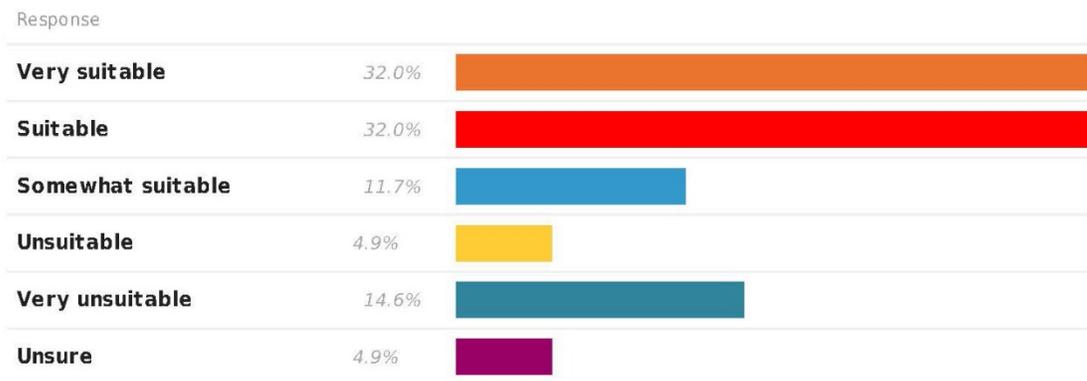
Benefits:

- good recovery opportunities with proximately to hospital and golf course

Concerns:

- size may limit possibilities
- not enough detail to fully comment

How suitable do you consider this site in terms of how close it is to existing sewer trunk and truck routes?



Benefits:

- near some truck routes

Concerns:

- not near a main highway
- not at the end of the pipe and may require more infrastructure like pump stations

What conditions would need to be met in order for you to consider this site suitable?

- integration into community and current uses including odour and noise control
- for the province to agree to either gift the land or negotiate a fair price
- separate access away from school

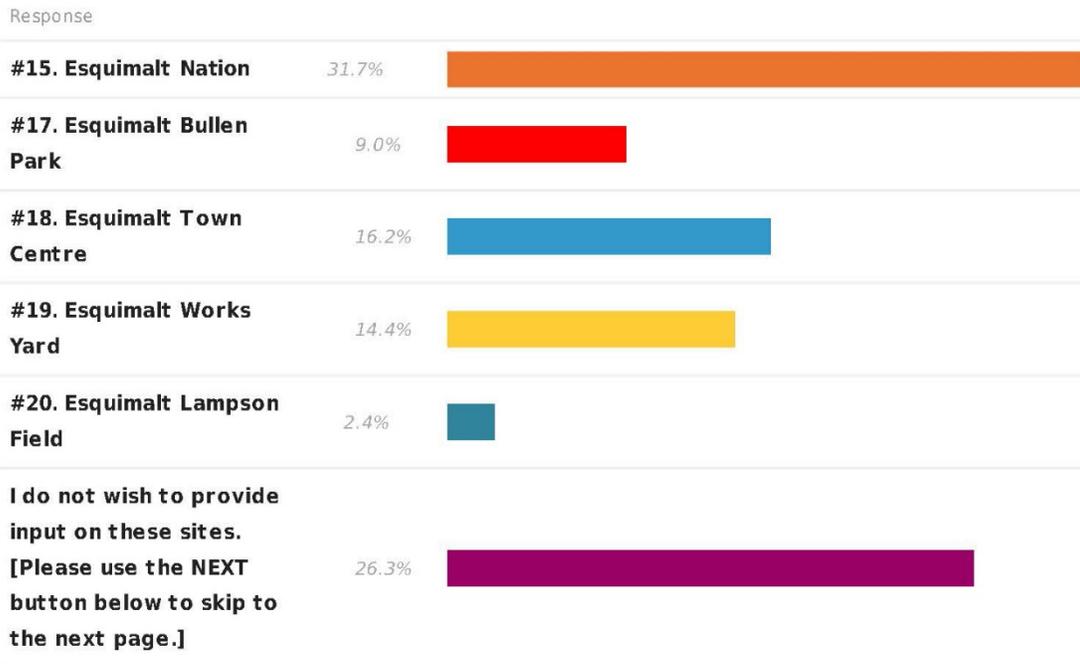
TECHNICAL COMMENTS

- BC Hydro right-of-way should be studied to incorporate any setback/limitations for new works (e.g. may limit site area significantly)
- Servicing Site 16 in any distributed or dual model requires relatively high amounts of new infrastructure

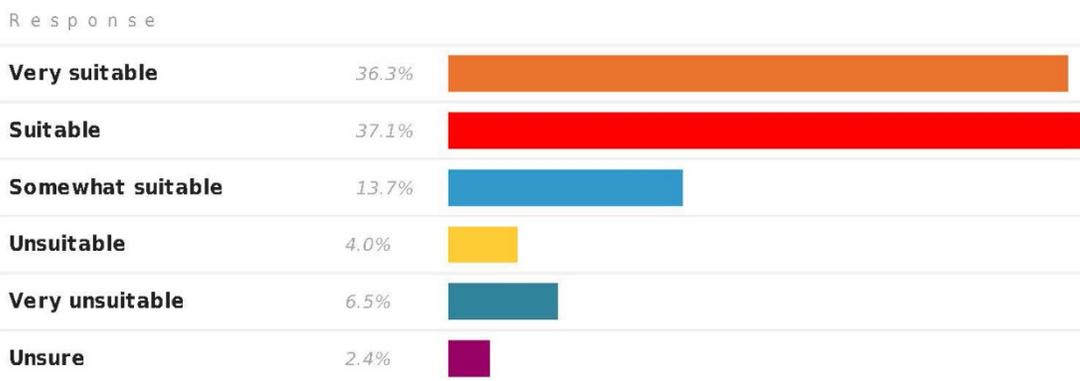
ESQUIMALT NODE:

Preferred site:

The majority of respondents chose the Esquimalt Nation (Site #15)



How suitable do you consider this site in terms of how the land is currently used, how wastewater resource facility would fit with the surrounding area and future plans for the community?



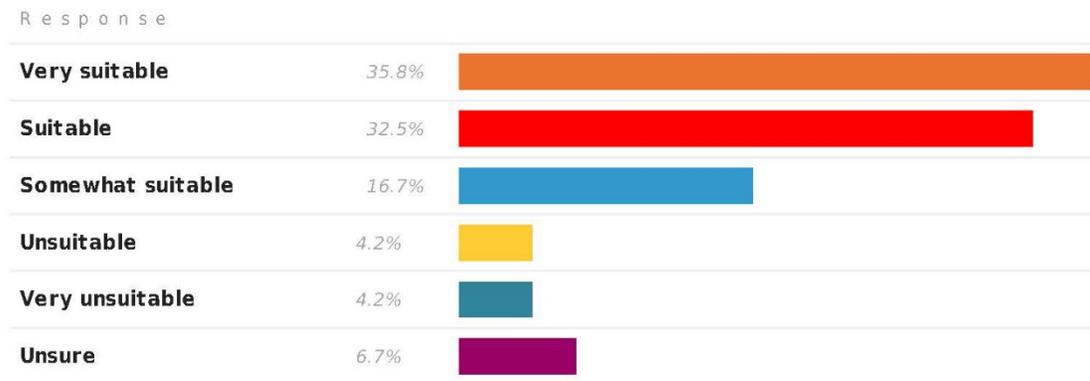
Benefits:

- site currently vacant
- has possibility to allow for expansion

Concerns:

- parkland and recreation opportunities need to be maintained
- must have secure access

How suitable do you consider this site in terms of potential for use of reclaimed water and energy recovered from the treatment process?



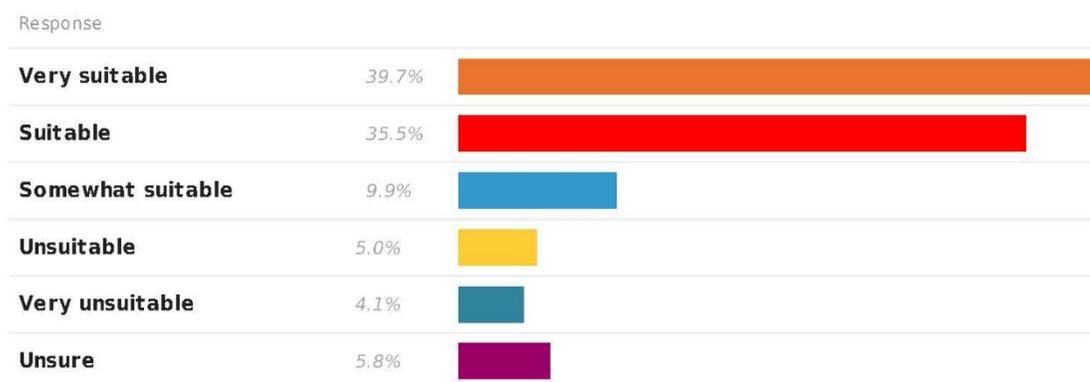
Benefits:

- potential for water reuse such as with the golf course
- future development possibilities for resource utilizations

Concerns:

- better opportunities elsewhere
- not a priority

How suitable do you consider this site in terms of how close it is to existing sewer trunk and truck routes?



Benefits:

- close to both sewer mains and truck routes

Concerns:

- could contribute to traffic congestion

What conditions would need to be met in order for you to consider this site suitable?

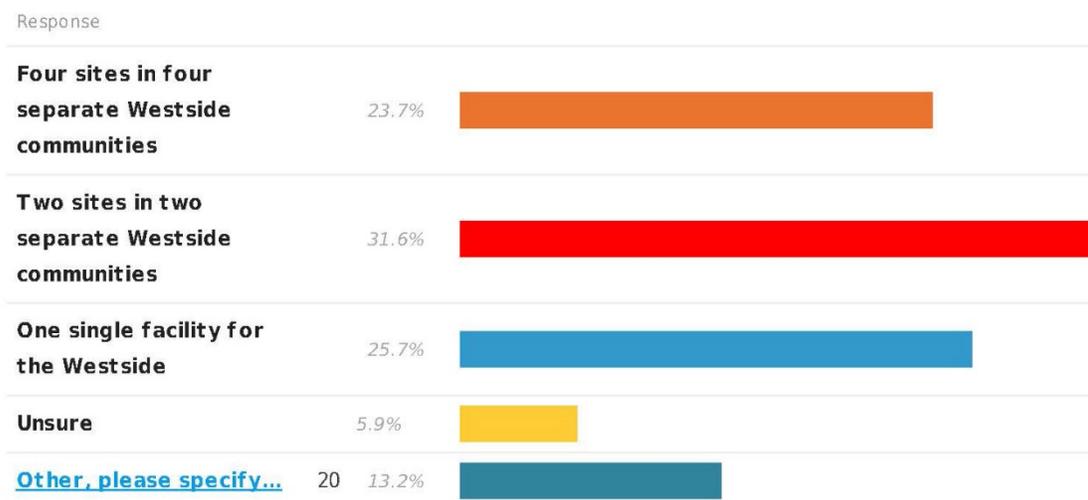
- agreements in place with Esquimalt Nation
- proper odour, noise and traffic management

TECHNICAL COMMENTS

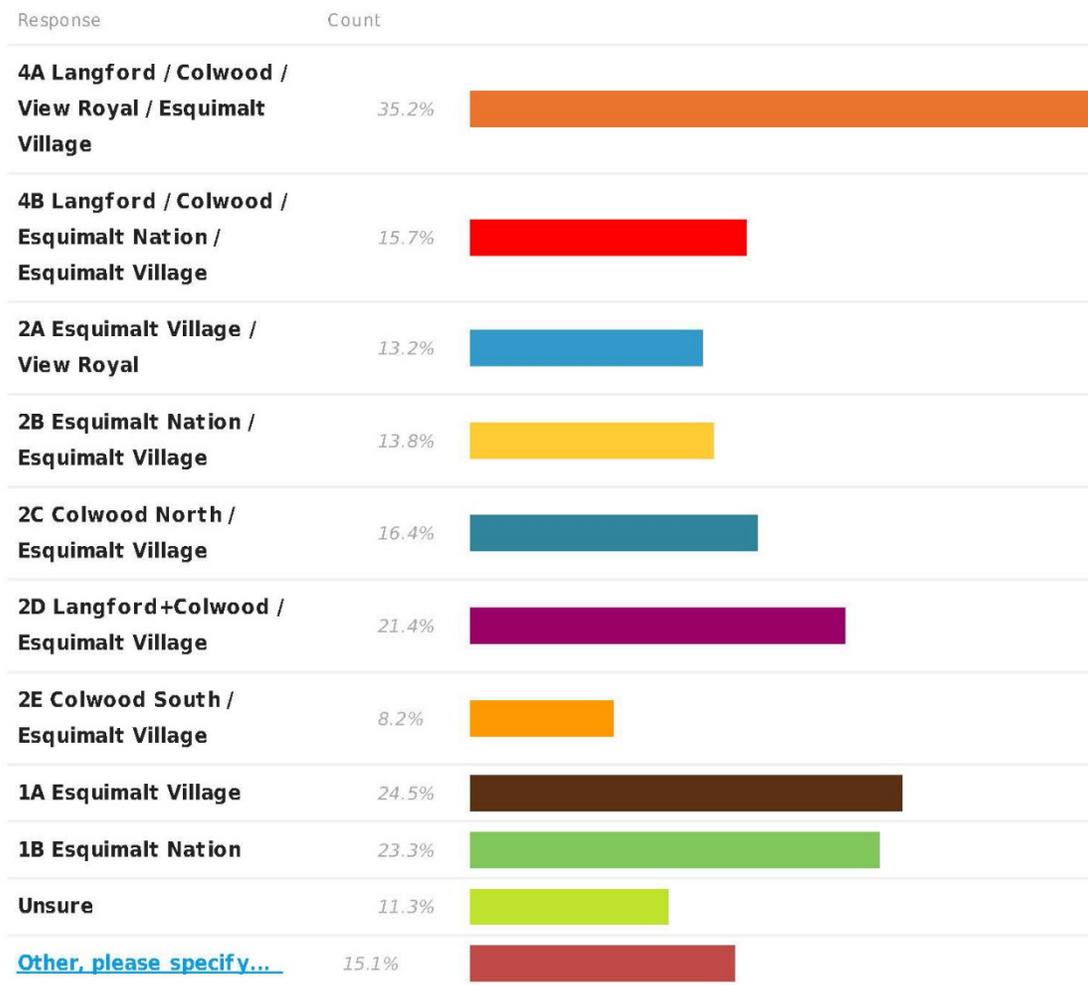
- Site 15 is suitable for all Option Set configurations: 1 plant, 2 plant and 4 plant
- Possibilities to utilize other sites in Esquimalt site node for heat recovery or water reclamation
- Site 15 has high public support for both liquid and residuals treatment

Number of sites:

What number of westside wastewater resource sites makes the most sense to you?



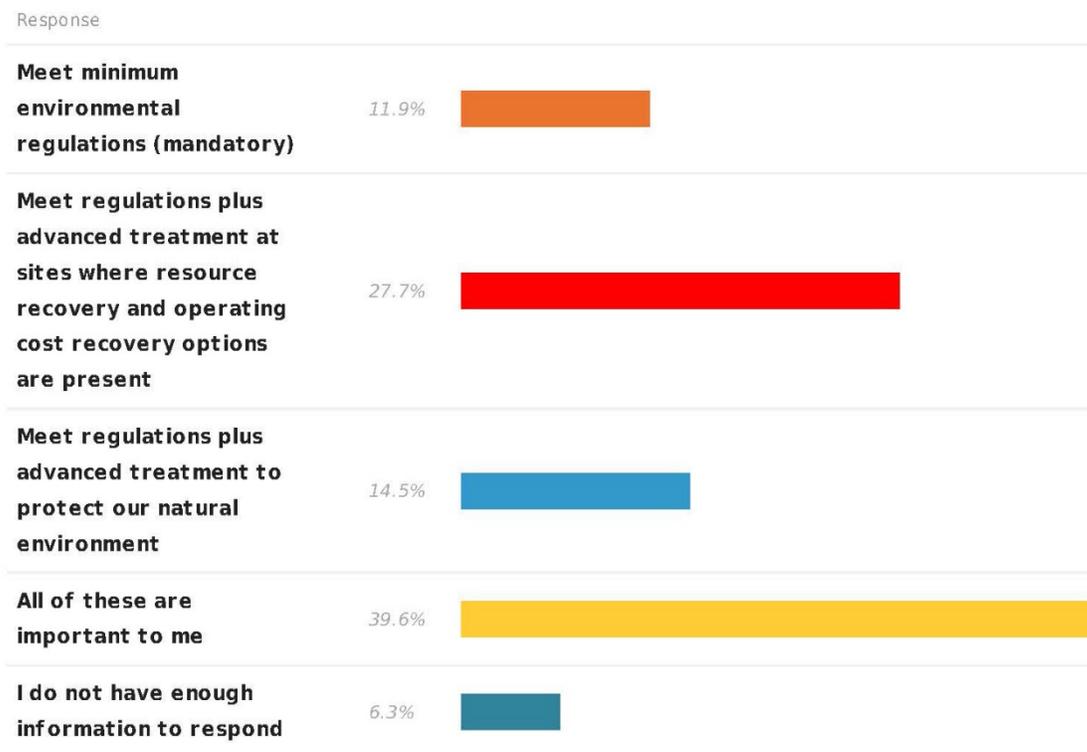
Of the sample option Sets presented, which option (s) do you feel should move forward for further technical analysis?



Level of treatment:

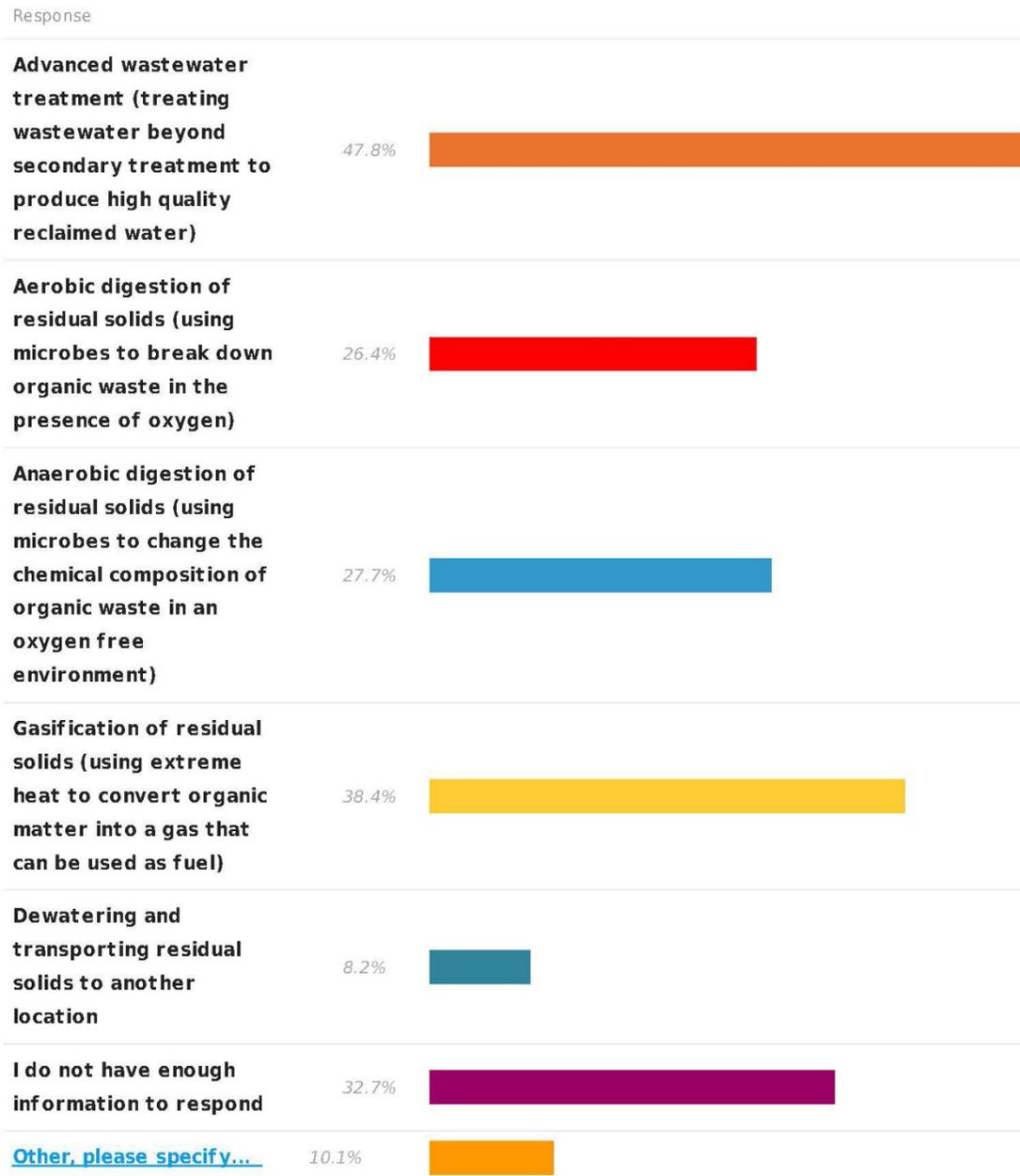
Removal of Harmful Substances

To what degree do you think a wastewater resource facility should deal with harmful substances? (Please select one.)



Focusing in on Technology

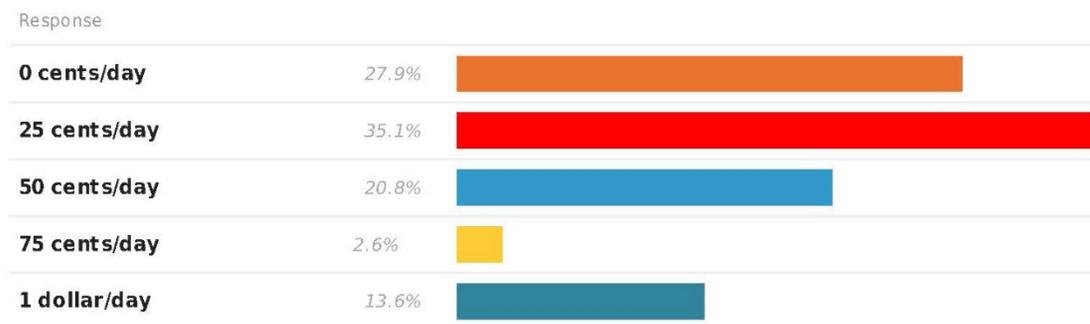
What technology would you support in your community? (Please select all that apply.)



Costs:

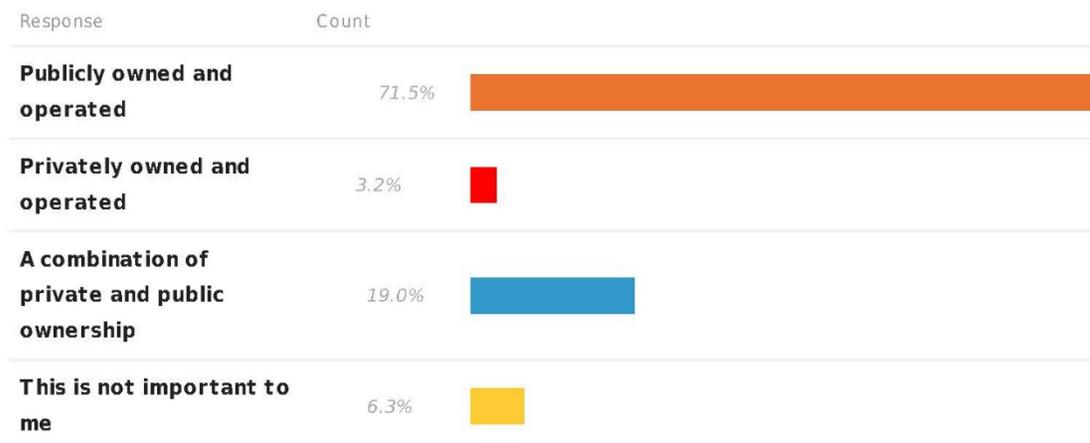
Breaking down the costs

Regulations require the region to treat wastewater to at least secondary treatment levels. If there were additional costs attached to a higher level of treatment, what would be a reasonable amount for each household to pay per day? (Please select one.)



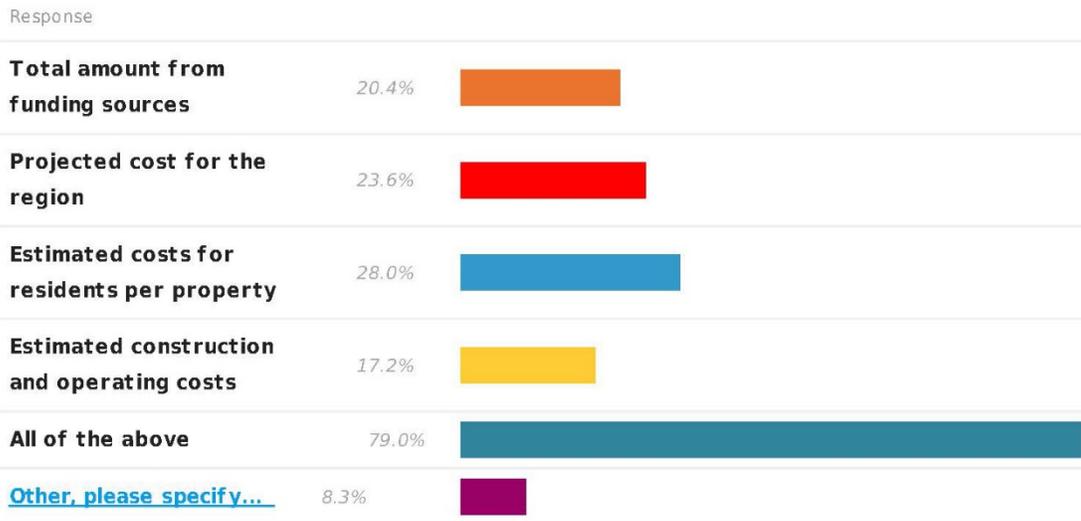
Defining Ownership and Governance

What is your view of the ideal ownership and governance of the site? (Please select one.)



Reporting on Financial Aspects

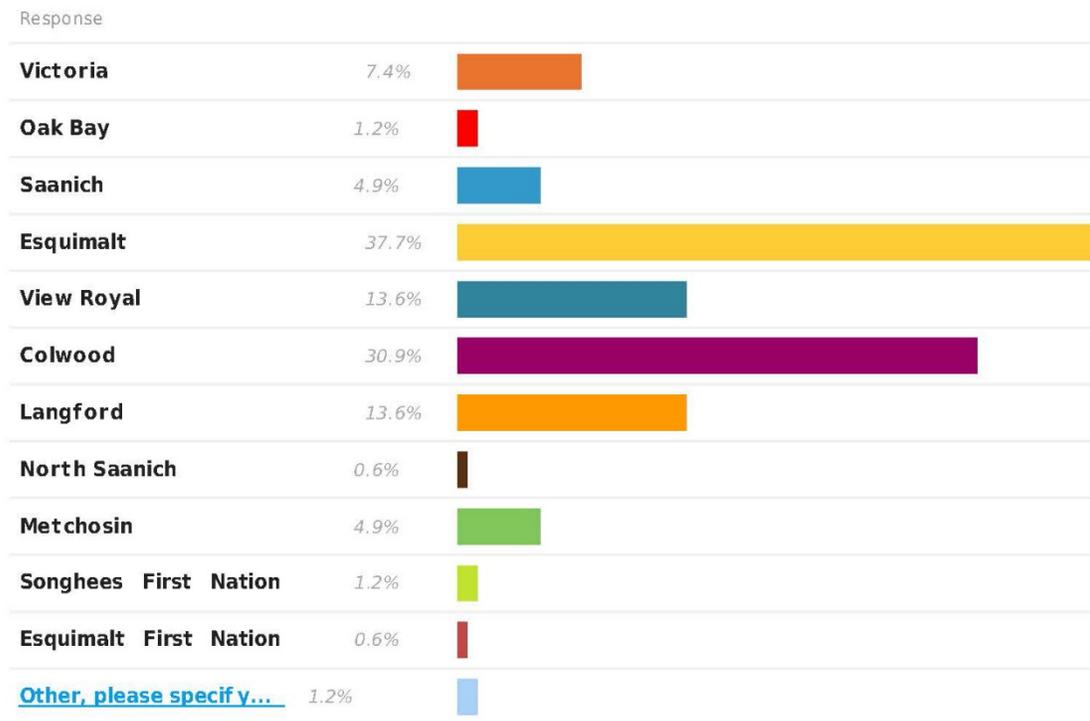
What information will you need in order to provide input into cost options over the course of the project? (Please select all that apply.)



If your chosen wastewater resource solution would cost significantly more than another option, would that affect your choice?



Responses by Community:



Conclusion:

SiteSpeak is key in facilitating the valuable input from citizens across the region. Trends appear to be emerging from this particular platform and previous public engagement endeavours;

- adequately dealing with any impacts to communities
- ensuring accurate cost benefit analysis, and
- continuing an open and transparent process that engenders public trust,

However to get the best information from residents it is critical to get as wide a respondent base to help determine further trends. To help promote as many respondents as possible to obtain as much public input over the course of this particular engagement tool – Westside Solution is actively promoting participation through print and online advertising, municipal and CRD websites, social media and a post card drop across the entire Westside.

The successful siting, constructing and operating of a wastewater treatment facility or facility is critical – not only to the Westside – but to the entire Core Area of the Capital Regional District.