

# Outreach Summary



## Surface Water Master Plan Outreach Summary

Public engagement and outreach to inform and promote the Surface Water Master Plan has been ongoing since June 2021. This outreach summary details our engagement efforts to inform the content of the Plan, promote the Draft Plan, and next steps for publishing and promoting the Final Plan.

### Outreach to Inform the Plan

Community engagement efforts to inform the content of the Draft Plan were carried out from June 2021 through July 2022. Engagement efforts included:

- **Project webpage** – The [project web page](#) was launched in June 2021 and continually updated to reflect the status of the Plan and promote opportunities for community members to get involved and share their feedback. Since launch, the website has received 1,137 unique page views as of 10/19/2022.
- **Drainage and Flooding Feedback** – Staff created an online, map-based survey to solicit feedback on flooding, drainage, and surface water issues throughout the City. Staff also created an enlarged paper map to collect feedback at community outreach events as detailed below. A targeted postcard with a link to the survey was also mailed to more than 2,300 properties within 50 feet of all streams in Kirkland. A copy of this postcard is available in Attachment A.

Overall, the drainage and flooding feedback survey received 25 responses and helped identify issues previously unknown to City staff. Some of these issues raised by community members were added either to the City's aging and failing infrastructure list or added to the CIP prioritization list. Several residents expressed appreciation for this feedback mechanism and had been previously unaware of how to report drainage concerns to the City.

- **Community Survey** – An online survey was launched in early 2022 to assess community priorities regarding Surface Water Utility goals and management. The survey was promoted through direct mail, social media, and existing City email listservs. Outreach promoting the Survey reached almost 19,000 people and generated 289 survey responses. Survey results demonstrated a strong appreciation for Kirkland's natural waters and aquatic recreation with high priority placed on preventing water pollution and improving water quality in our creeks, lakes, and wetlands. Full results are available in Attachment B.
- **Community Events** – Staff attended numerous community events to promote the Draft Plan process and solicit feedback to inform the Plan. Staff attended neighborhood meetings including the Kirkland Alliance of Neighborhoods, Highlands Neighborhood Association, and Moss Bay Neighborhood Association. Community events included a virtual City Hall for All event, the annual Community Health Fair, the Downtown Kirkland Wednesday Market, and the Juanita Friday Market.
- **Digital Outreach** – Staff utilized social media and City listservs to promote the plan process and engagement opportunities. From August 2021 to January 2022, we published 16 social media

posts reaching almost 14,000 people. We also sent 11 emails through City listservs, reaching an average of 5,700 recipients on each mailing.

### **Outreach for Comments on Draft Plan**

Community engagement efforts to solicit comments on the Draft Plan were carried out from August through October 2022. Engagement efforts included:

- **Virtual Open Houses** - Staff promoted and hosted two virtual open house events to present the Draft Surface Water Master Plan to community members, guide them on how to provide input, and answer questions about the plan and process. Approximately 10-12 community members attended these Open House events despite almost 40 registered to attend.
- **Surface Water Master Plan Hub** – To promote interactive exploration with the Plan, staff developed an ArcGIS Hub site to present the plan and solicit feedback on key elements. We had 782 views on the website and online Hub, 63 downloads of plan documents, and received 4 comments. Actual views may have been higher as data does not include visitors who have declined tracking activity on the site.

With the number of views received on the site, it appears people were exploring and interacting with the information but did not provide comments. The comments we did receive were minor edits with language suggestions or HUB information accessibility but provided overall support and kudos towards the surface water program.

- **Community Events** – Staff attended the Feriton Spur Park Grand Opening in July 2022, and the Downtown Kirkland Wednesday Market and Juanita Friday Market in August 2022 to inform community members about the upcoming Open House and release of the Draft Plan. Staff also presented at the Moss Bay Neighborhood Association.
- **Digital Outreach** - Staff utilized social media and City listservs to promote the Open House and Hub site. From August to October 2022, we published 11 social media posts, including paid promotion, reaching more than 114,000 people. We also sent 11 emails through City listservs, reaching an average of 5,700 recipients on each mailing.

### **Next Steps for Final Plan**

Staff will publish this outreach summary report to the project website and project hub along with the final Surface Water Master Plan. Staff will also promote the Final Plan through digital outreach channels including paid social media promotion and existing City email listservs. The City welcomes comments, questions, and feedback on all activities of the Storm & Surface Water Division by emailing [stormwater@kirklandwa.gov](mailto:stormwater@kirklandwa.gov) or calling 425-587-3820.



## Outreach Summary for the Surface Water Master Plan Update

*Last Updated 10-26-2022*

Phase 1 - Master Plan Awareness Building - June to August 2021		
Task #	Task Description	Status
1.1	<b>Build project webpage</b>	<b>Complete</b>
	Project webpage was built between June and August 2021. A custom short URL of kirklandwa.gov/SWMP was created for easier access on promotional materials. An email listserv was posted on the website to allow site visitors to sign up for email updates about the planning process. Since launch the project webpage has received 1,137 unique page visits.	
1.2	<b>Advertise the plan update process through social media and other channel (including Neighborhood and Community Groups)</b>	<b>Complete</b>
	Three general requests for feedback were posted to the City's Facebook page, reaching 3,149 people, and four posts on the Kirkland Conserves Facebook page, reaching 578 people. General requests for comments were also sent out in the City's weekly email newsletter for six weeks, reaching 5,700 recipients on each mailing, and in the monthly Kirkland Conserves email, reaching 1,329 recipients. Staff also presented at the Kirkland Alliance of Neighborhood meeting and at a City Hall for All event in September 2021.	
1.3	<b>Flyer/Postcard to advertise an overview of the SWMP, benefits of investing in Kirkland's surface water system and project timeline.</b>	<b>Complete</b>
	A SWMP Update fact sheet was produced and transcreated into three additional languages (Spanish, Russian, Chinese). Fact sheets were distributed at community events and were posted to the project webpage. Since launch, the fact sheets have been downloaded 30 times (24 English, 3 Chinese, 3 Spanish).	
Phase 2 - Community Engagement to Inform Draft Plan - August 2021 to February 2022		
Task #	Task Description	
2.1	<b>Create tools for feedback on flooding, drainage, surface water issues using existing City of Kirkland communications platforms.</b>	<b>Complete</b>
	Staff created an online, map-based survey to solicity feedback on flooding, drainage, and surface water issues throughout the City. The online survey received 25 responses and helped identify issues previously unknown to staff. Staff also used an enlarged paper map for use at community outreach evebts that allowed residents to place a pin & note on drainage issue areas. Staff attended two Farmer's Market booths on 8/18/21 and 9/3/21, a Kirkland Alliance of Neighborhoods meeting on 9/8/21, and a City Hall for All virtual event on 9/18/21.	
2.2	<b>Targeted solicitation for feedback surrounding known flooding issues and streamside property owners (including residential and business) through direct mail</b>	<b>Complete</b>
	A targeted mailing list was developed to solicit feedback from properties within close proximity to identified drainage issues as well as properties within 50 feet of a stream. In total, a targeted postcard was mailed to 2,326 addresses to solicit feedback.	
2.3	<b>Develop short online survey available in English, surrounding specific questions such as hierarchy of priorities, ranking utility goals, where would they like to see additional projects, etc</b>	<b>Complete</b>
	An online survey was developed in late 2021 and launched in 2022 to understand priorities, utility goals, etc. The survey was promoted via direct mailer, social media, and email listservs. Outreach promoting the survey reached 18,625 people. 289 responses were recorded on the survery (177 from direct mailer and 112 from digital outreach). A full summary of the survey results can be found in the attached survey results appendix.	
Phase 3 - Community Feedback on Draft Plan - December 2021- August 2022		
Task #	Task Description	
3.1	<b>Solicit feedback on draft plan through existing channels (website and social media)</b>	<b>Complete</b>
	Staff utilized social media and City listservs to promote the Open House and Hub site. From August to October 2022, we published 11 social media posts, including paid promotion, reaching more than 114,000 people. We also sent 11 emails through City listservs, reaching an average of 5,700 recipients on each mailing.	
3.2	<b>Provide in-person/virtual open house for draft plan</b>	<b>Complete</b>
	Staff promoted and hosted two virtual open house events to present the Draft Surface Water Master Plan to community members, guide them on how to provide input, and answer questions about the plan and process. Approximately 10-12 community members attended these Open House events despite almost 40 registered to attend.	
3.3	<b>Provide comment responses to any questions received at the online open house</b>	<b>Complete</b>
	Questions received at the open house were answered during the open house and did not require follow up comments.	
3.4	<b>Summarize community engagement activities and survey results in summary report posted on project website.</b>	<b>In Progress</b>
	The outeach summary report will be posted to the project website and project hub along with the final Surface Water Master Plan. Staff will also promote the Final Plan through digital outreach channels including paid social media promotion and existing City email listservs.	

## Attachment A - SWMP Postcard

**Are you concerned about flooding issues in your neighborhood?**  
**Do you live on a creek in Kirkland and have concerns about it?**



**The City of Kirkland is updating the Surface Water Master Plan.**  
**We need your input!**

Help us identify stream health, flooding, or  
drainage issues in your neighborhood.



*Kirkland Public Works  
Storm & Surface Water Division*

## What is the Surface Water Master Plan?

Kirkland's Surface Water Master Plan serves as a strategic guide to manage Kirkland's stormwater, creeks, lakes, and wetlands for our community and for future generations.

## Why should I provide input?

Please take a minute to tell us about rainwater-related issues that you've experienced. Your input will help us identify priority projects to include in the Master Plan.

These issues may include flooding or drainage issues, water pollution problems in our creeks or lakes, failing drainage structures, etc.

### 3 Ways to Provide Input:

- **ONLINE** - Scan the QR code or go to <https://tinyurl.com/SWMPcomment>
- **EMAIL** - [stormwater@kirklandwa.gov](mailto:stormwater@kirklandwa.gov)
- **PHONE** - Call **425-587-3820** to leave input



Kirkland Public Works  
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Kirkland, WA 98033

Visit [Kirklandwa.gov/SWMP](https://kirklandwa.gov/SWMP) to learn more.

Alternative language formats of this publication are available upon request. For more information, contact 425-587-3831 or [TitleVICoordinator@kirklandwa.gov](mailto:TitleVICoordinator@kirklandwa.gov)

## Attachment B - SWMP Survey Results Summary

### Purpose

Kirkland's Storm and Surface Water Division distributed a survey to the Kirkland community in December 2021 and January 2022.

The purpose survey was to gather information from on the following topics:

1. Kirkland community members' relationships with and perceptions of local waterways.
2. Community input on the Storm and Surface Water Division's priorities.
  - Prevent water pollution and improve water quality in our creeks, lakes, and wetlands
  - Protect and improve fish and wildlife habitat in our creeks, lakes, and wetlands
  - Ensure proper operation of all stormwater drainage systems in Kirkland
  - Reduce flooding and mitigate flooding impacts in our streets and neighborhoods

The results of this survey will help inform the development of the Surface Water Master Plan update and the NPDES permit-required Stormwater Management Action Planning process.

### Methods

A total of 289 responses to this survey were collected. Responses to the survey were solicited both via direct mail (sent to randomly selected residential Kirkland addresses) and electronic communications (social media and email newsletters). 177 responses were collected from the direct mailer while 112 responses collected from electronic communications.

Survey respondents were asked questions regarding their perceptions of local waterways, as well their perceptions of the priorities of the Storm and Surface Water Division. Demographic information was also collected to determine if the survey responses reflected the demographics of the Kirkland community.

### Results Summary

The section below summarizes responses to the survey. The survey instrument and full responses are provided in Appendices A, B, and C.

#### Waterways/Watershed Questions

To better understand Kirkland community members' connections to Kirkland's waterways and watersheds, the first section of the survey solicited responses regarding individual community members relationship with and perception of those waterways.

- Respondents were asked to view a map of Kirkland's waterways. When asked to select the **names of the creeks or lakes that they interacted with in Kirkland**, the most common responses included:
  - Lake Washington (66.20%)
  - Juanita Creek (45.99%)
  - Forbes Creek (35.54%)
- When asked **what they valued in Kirkland's creeks and lakes**, the 3 most common responses included:



- Clean water (85.30%)
- Wildlife habitat (81.00%)
- Connection with nature (74.19%)
- The most common responses to **ways that households have used or enjoyed Kirkland's creek and lakes** included:
  - Recreational activities near the water (87.41%)
  - Birdwatching or nature watching (59.71%)
  - Boating, kayaking, standup paddleboard, or other recreation on the water (41.73%)
- 60 respondents provided additional comments regarding their **values or concerns related to Kirkland's creeks and lakes**. Common comment themes are listed below, along with the number of times a comment addresses that theme. All comments are available in Appendix C.
  - Ecosystems/wildlife/habitat (14)
  - Water quality (12)
  - General appreciation/kudos (8)
  - Clean swimming areas (4)
  - Dogs (3)
  - Litter (3)
  - Flooding concerns (2)
  - Public access to water (2)
  - Sewage/septic (2)

### Division Priorities Questions

The second section on the survey solicited responses regarding the Storm and Surface Water Division's priorities and potential actions/program elements to address these priorities. These questions were asked to (1) better understand the Kirkland community's priorities around water quality in local creeks and lakes, in-stream fish and wildlife habitat, flood prevention, and maintenance of public stormwater infrastructure and (2) gather public feedback regarding potential actions and programs to be included or increased in the Surface Water Master Plan Update.

- Respondents were asked to rank their **overall priorities for the Storm and Surface Water Division** on a scale of 1, for the *highest priority*, to 4, for the *lowest priority*. Water pollution prevention was ranked as the highest priority with a score of 3.04. (In SurveyMonkey ranking questions, the answer choice with the largest weighted average is the most preferred choice. Choices are reverse-weighted, with a choice ranked as "1" receiving a score of 4.)

Priority	Score/average ranking
Prevent water pollution and improve water quality in our creeks, lakes, and wetlands	3.04
Protect and improve fish and wildlife habitat in our creeks, lakes, and wetlands	2.63
Ensure proper operation of all stormwater drainage systems in Kirkland	2.24
Reduce flooding and mitigate flooding impacts in our streets and neighborhoods	2.14



- 54 respondents provided additional comments regarding their overall priorities for the Storm and Surface Water Division. Common comment themes are listed below, along with the number of times a comment addresses that theme. All comments are available in Appendix C.
  - All four are a priority (19). Respondents commented that all the priorities are important and inter-related - and should not be ranked against one another.
  - Proper maintenance and flood reduction (7). Concerns regarding flooding as it relates to stormwater infrastructure, lack of stormwater infrastructure.
  - Limit development (3)
  - Increase pervious area/reduce impervious area (3)
  - Maintain open space and wooded areas (3)
  - Eliminate sewage leaks (3)
  - Improve habitat (2)
  - Safe swimming (2)
  - More rain gardens/improve rain gardens (2)

- When asked what the Storm and Surface Water Division should focus on to **improve water quality in our creeks, lakes, and wetlands**, respondents rated the listed actions as follows:

Action	Weighted Average
Increase enforcement to prevent pollution to local waterways.	3.94
Build stormwater treatment facilities (rain gardens, ponds, filters, etc.) on City-owned property.	3.87
Improve and expand stream health monitoring to include new methodologies and/or new pollutants of concern.	3.84
Education and outreach to encourage behaviors that reduce water pollution.	3.77
Offer financial incentives to private property owners to improve water quality in our creeks, lakes, and wetlands.	3.26

- 44 respondents provided additional comments regarding actions they think the Storm and Surface Water Division should focus on to improve water quality. Common comment themes are listed below, along with the number of times a comment addresses that theme. All comments are available in Appendix C.
  - Development restrictions/requirements (7)
  - Incentives for rain gardens/cisterns/stormwater management (5)
  - Reduce pesticides (4)
  - More education (4)
  - Pollution enforcement (4)
  - Reduce pet waste (3)
  - More volunteers (2)
  - Stop tree removal/clear cuts by development (2)
- In response to what they think the Division should focus on to **protect and enhance in-stream habitat conditions for fish and wildlife**, respondents rated the listed actions as follows:

Action	Weighted Average
--------	------------------

Identify opportunities and implement habitat restoration projects on public open spaces.	3.91
Replace culverts to improve fish passage and habitat access.	3.81
Buy land or the development rights on property with important habitat (wetlands, areas along creeks, etc.).	3.68
Provide incentives and technical assistance to property owners for habitat stewardship activities (free plants, labor, etc.).	3.55

- 28 respondents provided additional comments regarding actions they think the Division should take to protect and enhance in-stream habitat conditions. Common comment themes are listed below, along with the number of times a comment addresses that theme. All comments are available in Appendix C.
  - More education/signage/awareness-raising (8)
  - Stop tree removal/clear cuts by development (6)
  - Remove invasive plants (2)

- When asked what the Storm and Surface Water Division should focus on to **reduce flooding in our streets and neighborhoods**, respondents rated the listed actions as follows:

Action	Weighted Average
Increase funding and resources to infrastructure projects that will correct flooding issues.	3.73
Increase the size of the City's stormwater pipes and ditches to carry more water and help manage increased intense rainstorms.	3.35
Increase street sweeping frequency.	3.06
Implement storm and flood alert system for Kirkland community.	2.81

- 36 respondents provided additional comments regarding potential actions to reduce flooding in our streets and neighborhoods. Common comment themes are listed below, along with the number of times a comment addresses that theme. All comments are available in Appendix C.
  - More education to clear storm drains (6)
  - Incentivize developers, increase development requirements to increase yard space/reduce impervious area (6)
  - More street sweeping (4)
  - Increase pervious surface (3)
  - Improve infrastructure (3)
  - Stop tree removal/clear cuts by development (2)

- In response to what they think the Division should focus on to **ensure proper operation of all stormwater systems** in Kirkland, respondents rated the listed actions as follows:

Action	Weighted Average
Increase efforts to repair and replace aging and failing stormwater pipes and structures.	4.12

Increase frequency of inspection and cleaning of stormwater pipes and structures.	3.73
Increase technical assistance for maintenance of stormwater systems on private property.	3.40

- 27 additional comments were provided regarding potential actions to ensure proper operation of all stormwater systems in Kirkland. Common comment themes are listed below, along with the number of times a comment addresses that theme. All comments are available in Appendix C.
  - Increase frequency of cleaning/maintenance (6)
  - Educate private property owners to own maintenance (4)
  - More frequent maintenance of high problem areas (3)
  - Unaware if there are issues (2)
  - Install new infrastructure (2)
- 66 respondents answered the final question in this section, asking them if there was **anything else they would like the City to consider as we develop the Surface Water Master Plan**. Common comment themes are listed below, along with the number of times a comment addresses that theme. All comments are available in Appendix C.
  - More education (12)
  - More development restrictions (10)
  - Compliments/kudos (8)
  - Don't increase cost to residents (4)
  - More pollution enforcement (4)
  - Protect open space/woodlands (3)
  - More GSI (3)
  - Reduce pet waste (2)
  - Safe swim areas (2)
  - More volunteers (2)

### Demographic Questions

Demographic information was collected to determine if the survey responses reflected the demographics of the Kirkland community. Response to these questions was optional and key takeaways presented below are based on the respondents who chose to answer the demographic questions.

- More than 60% of survey respondents have lived in Kirkland for 10 years or more, with more than 40% having lived in Kirkland for over 20 years.
- The geographic distribution of survey respondents closely reflected the geographic distribution of the Kirkland population.

	Survey	Actual
North Kirkland (Finn Hill, Juanita, Kingsgate, Totem Lake)	57.59%	56.17%

Central Kirkland (Market, Norkirk, Highlands, North Rose Hill)	21.40%	19.52%
South Kirkland (Moss Bay, Everest, South Rose Hill, Lakeview, Central Houghton, Bridle Trails)	21.01%	24.31%

- Occupants of single-family homes were over-represented in survey responses, while occupants of multifamily homes were underrepresented.

	Survey	Actual	Difference
Single family	79%	56%	+ 23%
Multifamily	18%	44%	- 26%

- Older community members were over-represented in survey responses. While over 50% of the Kirkland community (over the age of 18) is younger than 45, this age group made up only 30% of the respondents. Conversely, where the approximately 47% of the Kirkland community (over the age of 18) is older than 45, this age group made up 62% of the respondents.

	Survey	Actual (Minus Under 18)
Under 18	0%	
18-24	2.32%	10%
25-34	10.04%	21%
35-44	17.37%	23%
45-54	19.69%	17%
55-64	18.92%	13%
65+	23.55%	17%
Prefer not to answer	8.11%	

## Appendices

Appendix A – Survey Instrument

Appendix B – Survey Results

Appendix C – Answers to Open Response Questions





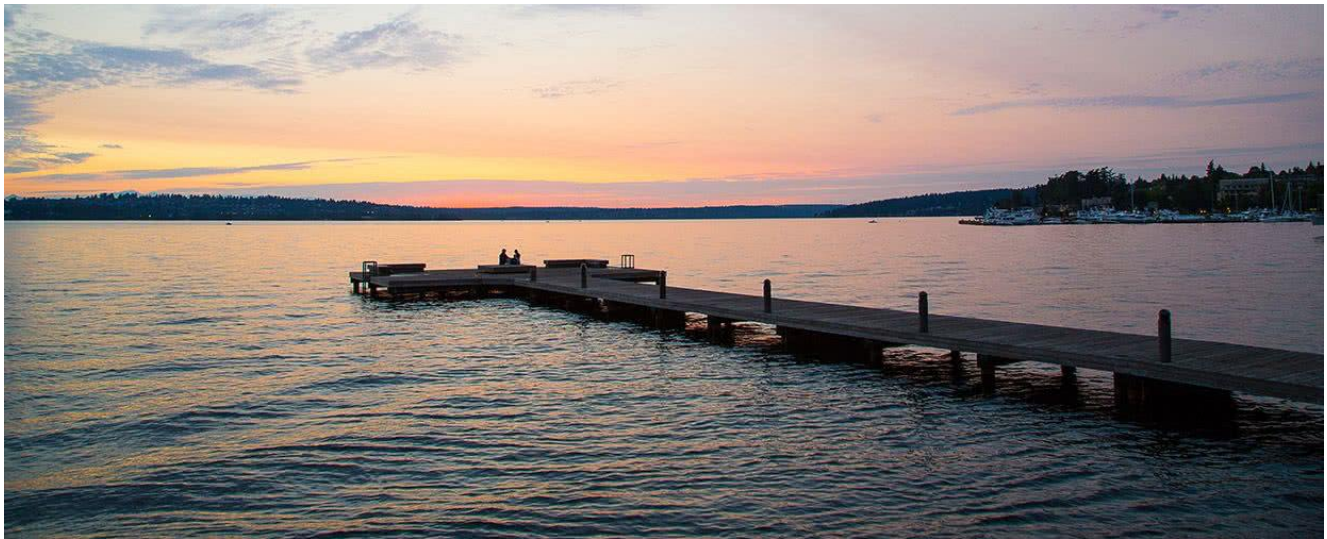
## Kirkland Surface Water Master Plan Survey

Thank you for participating in the Surface Water Master Plan Survey!

The Storm and Surface Water Division of the Kirkland Public Works Department is in the process of updating its Surface Water Master Plan. Your answers to this survey will help guide the content for the draft Master Plan.

This survey should take about 15 minutes to complete.

If you have any questions about the survey, please email us at [stormwater@kirklandwa.gov](mailto:stormwater@kirklandwa.gov).



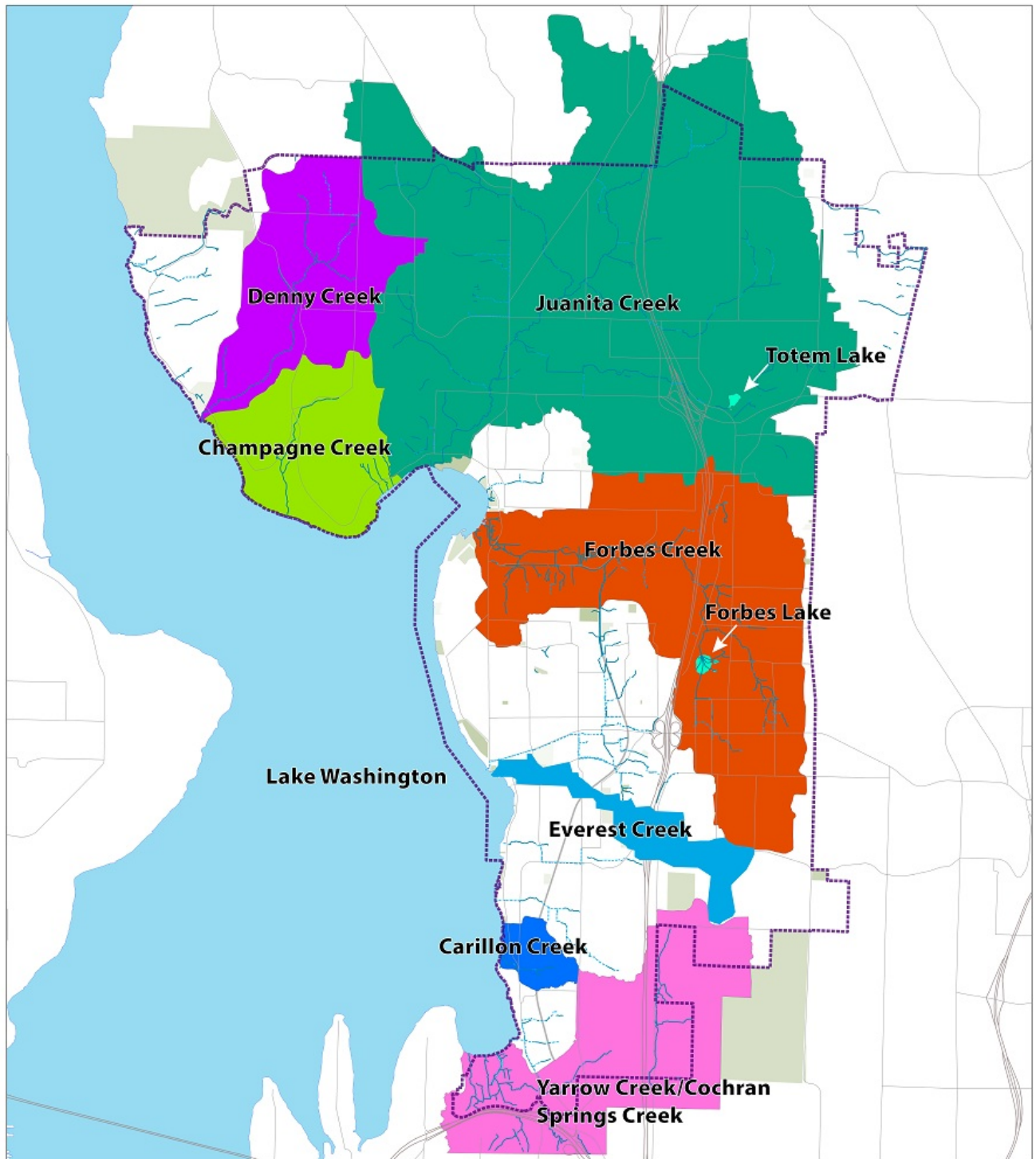




## Kirkland Surface Water Master Plan Survey

*Please tell us about how you interact with creeks and lakes in Kirkland and what you value about them.*

1. Using the map below as a guide, select the names of the creeks or lakes that you interact with in Kirkland. Choose all that apply.

- |                                                 |                                          |                                                                                 |
|-------------------------------------------------|------------------------------------------|---------------------------------------------------------------------------------|
| <input type="checkbox"/> Carillon Creek         | <input type="checkbox"/> Forbes Creek    | <input type="checkbox"/> Yarrow Creek                                           |
| <input type="checkbox"/> Champagne Creek        | <input type="checkbox"/> Forbes Lake     | <input type="checkbox"/> I don't know                                           |
| <input type="checkbox"/> Cochran Springs Creek  | <input type="checkbox"/> Juanita Creek   | <input type="checkbox"/> I don't interact with<br>Kirkland's creeks or<br>lakes |
| <input type="checkbox"/> Denny Creek            | <input type="checkbox"/> Lake Washington |                                                                                 |
| <input type="checkbox"/> Everest Creek          | <input type="checkbox"/> Totem Lake      |                                                                                 |
| <input type="checkbox"/> Other (please specify) |                                          |                                                                                 |



- |                                                                                                     |                                                                                                     |                                                                                                                          |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
|  Carillon Creek  |  Forbes Creek    |  Totem Lake                         |
|  Champagne Creek |  Forbes Lake     |  Yarrow Creek/Cochran Springs Creek |
|  Denny Creek     |  Juanita Creek   |                                                                                                                          |
|  Everest Creek   |  Lake Washington |                                                                                                                          |



## Kirkland Surface Water Master Plan Survey

2. What do you most value in Kirkland's creeks and lakes? Choose all that apply.

- |                                                                |                                                     |                                           |
|----------------------------------------------------------------|-----------------------------------------------------|-------------------------------------------|
| <input type="checkbox"/> Clean water                           | <input type="checkbox"/> Important to our health    | <input type="checkbox"/> Scenery/views    |
| <input type="checkbox"/> Connect with nature                   | <input type="checkbox"/> Recreational opportunities | <input type="checkbox"/> Wildlife habitat |
| <input type="checkbox"/> Connect with religion or spirituality | <input type="checkbox"/> Salmon habitat             | <input type="checkbox"/> Don't know       |
| <input type="checkbox"/> Something else (please specify)       |                                                     |                                           |

3. In what ways have you or other members of your household used or enjoyed the creeks or lakes in Kirkland during the past year? Choose all that apply.

- |                                                                                                   |                                                                                                        |
|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Fishing                                                                  | <input type="checkbox"/> Recreation activities near the water (walking, running, hiking, biking, etc.) |
| <input type="checkbox"/> Boating, kayaking, standup paddleboard, or other recreation on the water | <input type="checkbox"/> Swimming                                                                      |
| <input type="checkbox"/> Birdwatching or nature watching                                          | <input type="checkbox"/> Don't participate in activities in or near creeks or lakes                    |
| <input type="checkbox"/> Other (please specify)                                                   |                                                                                                        |

4. Is there anything else that you'd like to share about your values or concerns related to Kirkland's creek and lakes?





## Kirkland Surface Water Master Plan Survey

In Kirkland, much of the land is covered in hard surfaces like roads, rooftops, and driveways. These hard surfaces keep rainwater from soaking into the ground. Rain stays on the surface and becomes **stormwater runoff**.

Kirkland's Storm and Surface Water Division addresses stormwater issues and challenges. The mission of the division is to manage surface water and stormwater in Kirkland to:

- improve water quality in our creeks, lakes, and wetlands
- protect and enhance in-stream habitat
- reduce flooding and mitigate flooding impacts in our streets and neighborhoods
- ensure the proper operation of all stormwater drainage systems in Kirkland.



**5. Please rank your overall priorities for the Storm and Surface Water Division. Write the numbers 1, 2, 3, and 4 in the boxes below - (1) for highest priority and (4) for lowest priority.**

**Prevent water pollution and improve water quality in our creeks, lakes, and wetlands**

**Protect and improve fish and wildlife habitat in our creeks, lakes, and wetlands**

**Reduce flooding and mitigate flooding impacts in our streets and neighborhoods**

**Ensure proper operation of all stormwater drainage systems in Kirkland**

**6. Please share any additional comments regarding your overall priorities/rankings for the Storm and Surface Water Division.**

**7. What do you think the Storm and Surface Water Division should focus on to improve water quality in our creeks, lakes, and wetlands? Please rate each of the following actions based on importance:**

	Not important	Slightly important	Moderately important	Important	Very important
<b>Build stormwater treatment facilities (rain gardens, ponds, filters, etc.) on City-owned property.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Education and outreach to encourage behaviors that reduce water pollution.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Increase enforcement to prevent pollution to local waterways.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Offer financial incentives to private property owners to improve water quality in our creeks, lakes, and wetlands.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Improve and expand stream health monitoring to include new methodologies and/or new pollutants of concern.</b>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**8. Please share any other actions you think the Storm and Surface Water Division should focus on to improve water quality in our creeks, lakes, and wetlands.**



**9. What do you think the Storm and Surface Water Division should focus on to protect and enhance in-stream habitat conditions for fish and wildlife? Please rate each of the following actions based on importance:**

	Not important	Slightly important	Moderately important	Important	Very important
Buy land or the development rights on property with important habitat (wetlands, areas along creeks, etc.).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Replace culverts to improve fish passage and habitat access.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Identify opportunities and implement habitat restoration projects on public open spaces.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Provide incentives and technical assistance to property owners for habitat stewardship activities (free plants, labor, etc.).	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**10. Please share any other actions you think the Storm and Surface Water Division should focus on to protect and enhance in-stream habitat conditions for fish and wildlife.**

**11. What do you think the Storm and Surface Water Division should focus on to reduce flooding in our streets and neighborhoods? Please rate each of the following actions based on importance:**

	Not important	Slightly important	Moderately important	Important	Very important
Increase street sweeping frequency.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Increase funding and resources to infrastructure projects that will correct flooding issues.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Increase the size of the City's stormwater pipes and ditches to carry more water and help manage increased intense rainstorms.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Implement storm and flood alert system for Kirkland community.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

**12. Please share any other actions you think the Storm and Surface Water Division should focus on to reduce flooding in our streets and neighborhoods.**

**13. What do you think the Storm and Surface Water Division should focus on to ensure proper operation of all stormwater systems in Kirkland? Please rate each of the following actions based on importance:**

	Not important	Slightly important	Moderately important	Important	Very important
Increase efforts to repair and replace aging and failing stormwater pipes and structures.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Increase frequency of inspection and cleaning of stormwater pipes and structures.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Increase technical assistance for maintenance of stormwater systems on private property.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

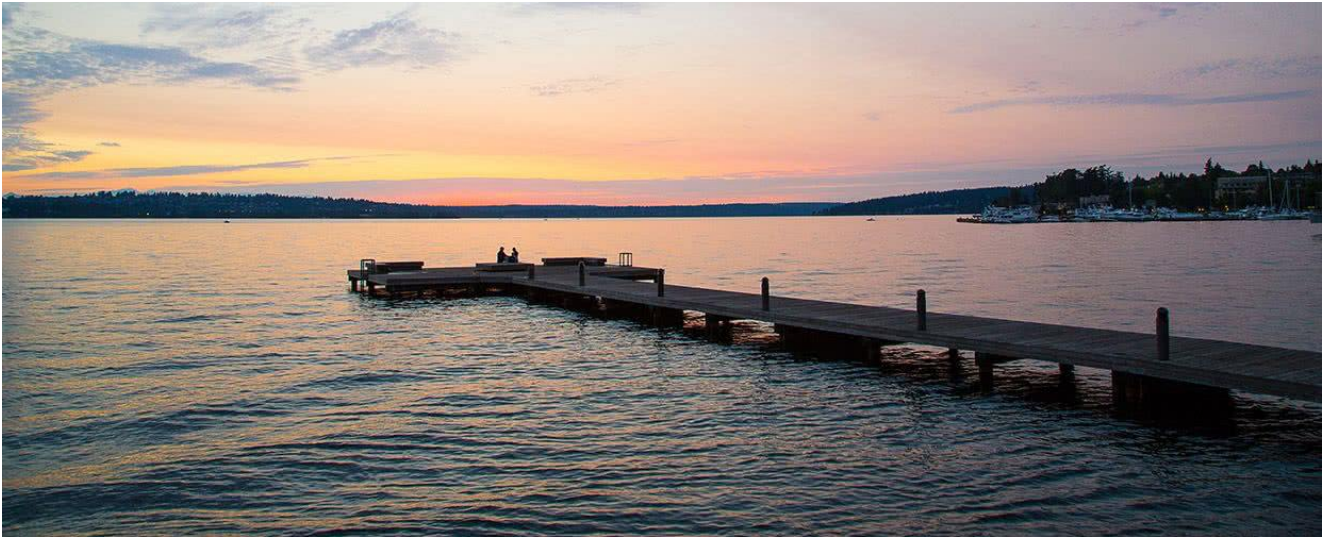
**14. Please share any other actions you think the Storm and Surface Water Division should focus on to ensure proper operation of all stormwater systems in Kirkland.**



## Kirkland Surface Water Master Plan Survey

### Additional Comments

15.



Is there anything else you would like the City to consider as we develop the Surface Water Master Plan?





## Kirkland Surface Water Master Plan Survey

Your response to these demographic questions is appreciated but not required. We want to reach as many people as possible. The only way to know if we're achieving that is to learn a little about who takes our surveys. We won't use this information for any other purpose except interpreting our survey results and improving our civic engagement strategy. All information provided is anonymous.

### 16. How long have you lived in Kirkland?

- ☐ Less than a year
- ☐ 1 – 5 years
- ☐ 6 – 10 years
- ☐ 11 – 20 years
- ☐ More than 20 years
- ☐ I do not live in Kirkland

### 17. In which part of Kirkland do you live, work, or spend the most time in?

- ☐ South Kirkland (Moss Bay, Everest, South Rose Hill, Lakeview, Central Houghton, Bridle Trails)
- ☐ Central Kirkland (Market, Norkirk, Highlands, North Rose Hill)
- ☐ North Kirkland (Finn Hill, Juanita, Kingsgate, Totem Lake)

**18. Which of the following best describes your current home?**

- ☐ Detached single family home
- ☐ Condominium
- ☐ Townhouse
- ☐ Apartment
- ☐ Mobile home
- ☐ Prefer not to answer
- ☐ Other (please specify)

**19. Which of these categories best describes the total gross annual income of your household (before taxes)?**

- ☐ Under \$25,000
- ☐ \$25,000 – 49,999
- ☐ \$50,000 – 74,999
- ☐ \$75,000 – 99,999
- ☐ \$100,000 – 149,999
- ☐ \$150,000 – 199,999
- ☐ \$200,000 or more
- ☐ Prefer not to answer

**20. What is your age?**

- ☐ Under 18
- ☐ 18-24
- ☐ 25-34
- ☐ 35-44
- ☐ 45-54
- ☐ 55-64
- ☐ 65+
- ☐ Prefer not to answer

**21. Are there any languages other than English spoken in your household? If so, select all that apply.**

- ☐ Cantonese
- ☐ Korean
- ☐ Mandarin
- ☐ Portuguese
- ☐ Russian
- ☐ Somali-Amharic
- ☐ Spanish
- ☐ Tagalog
- ☐ Vietnamese
- ☐ Not listed (please specify)

**22. Do you consider yourself... (select all that apply)**

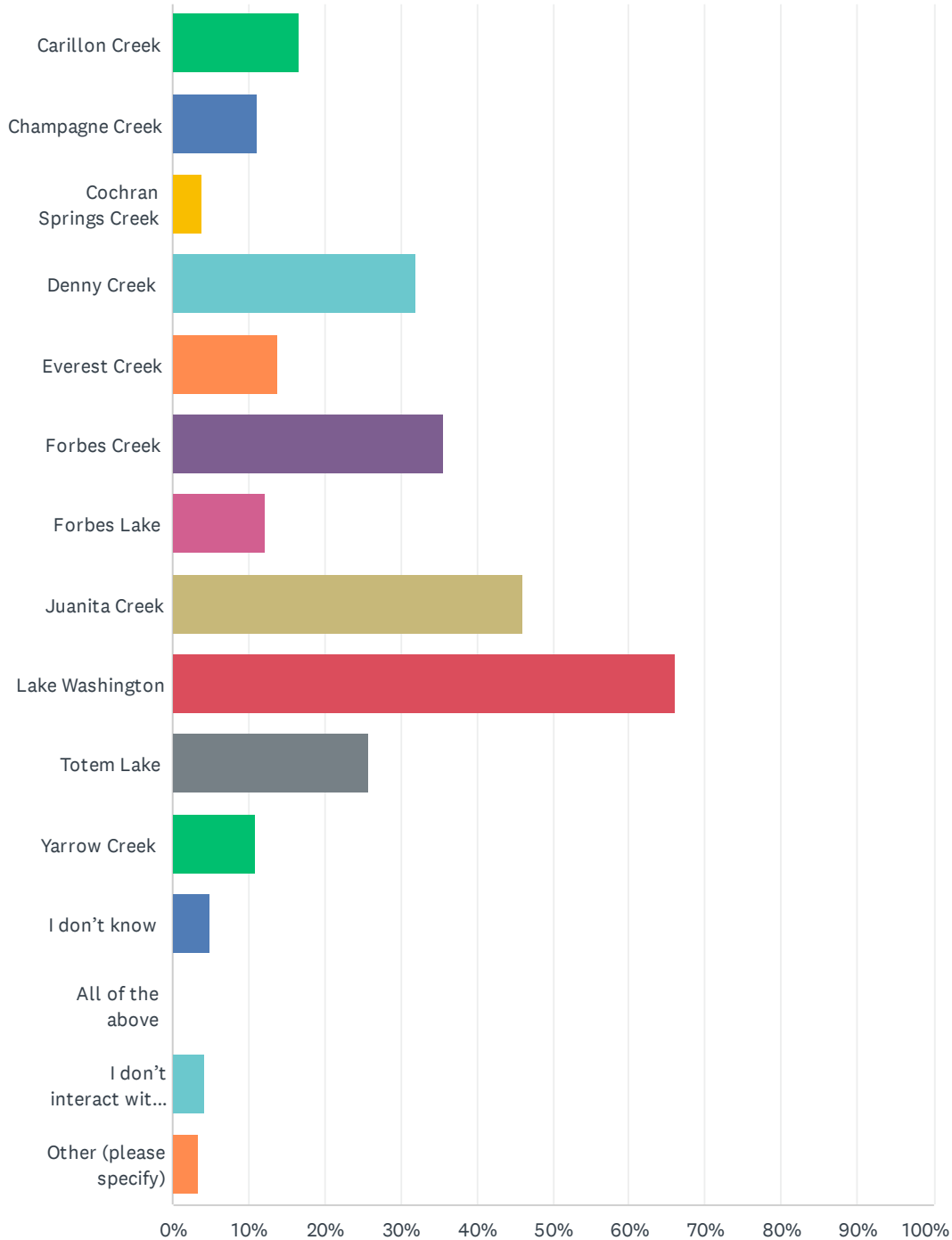
- ☐ American Indian or Alaska Native
- ☐ Asian
- ☐ Black or African American
- ☐ Hispanic or Latino
- ☐ Native Hawaiian or Other Pacific Islander
- ☐ White or Caucasian
- ☐ Prefer not to answer
- ☐ Not listed (please specify)

**23. Which gender do you identify with?**

- ☐ Female
- ☐ Male
- ☐ Non-binary or third gender
- ☐ Prefer not to answer
- ☐ Not listed (please specify)

Q1 Using the map below as a guide, select the names of the creeks or lakes that you interact with in Kirkland. Choose all that apply.

Answered: 287 Skipped: 2



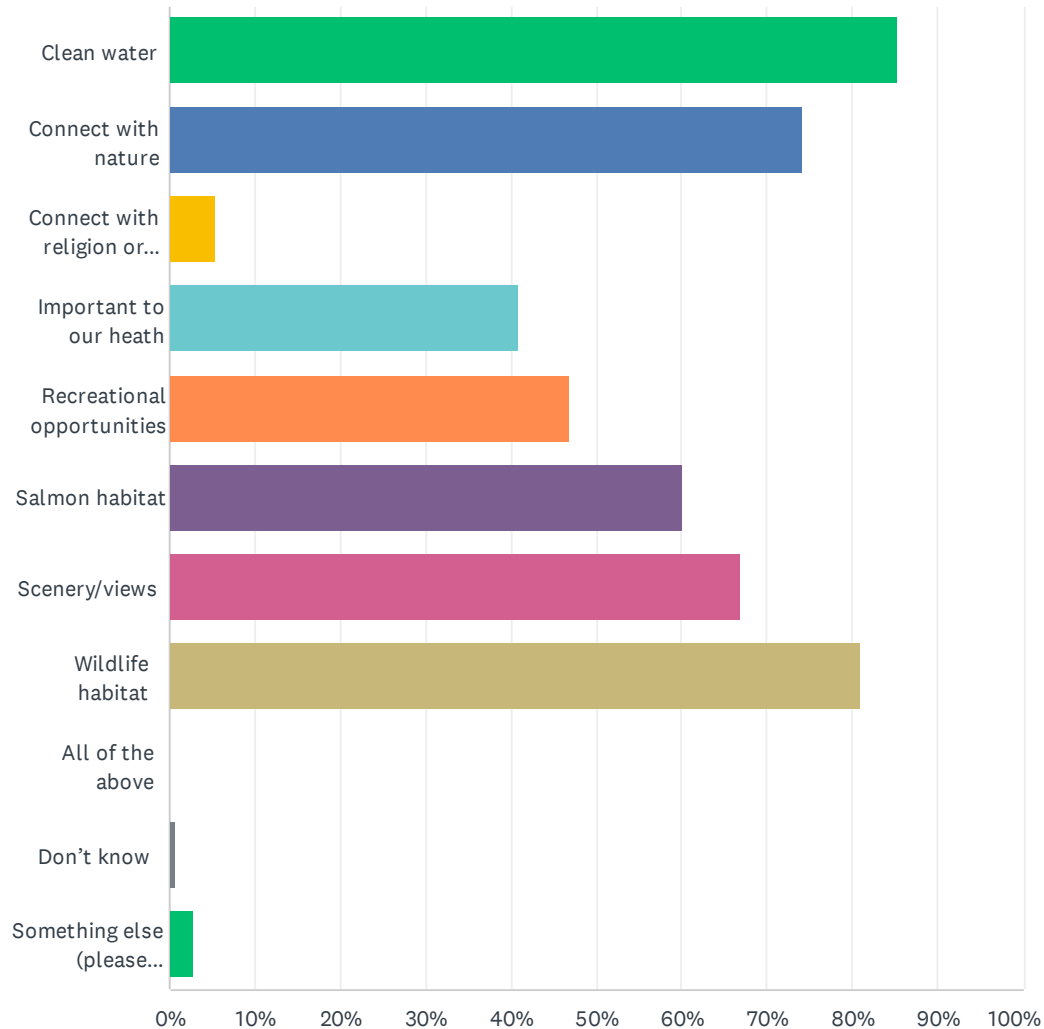
## Kirkland Surface Water Master Plan Survey

ANSWER CHOICES	RESPONSES	
Carillon Creek	16.72%	48
Champagne Creek	11.15%	32
Cochran Springs Creek	3.83%	11
Denny Creek	32.06%	92
Everest Creek	13.94%	40
Forbes Creek	35.54%	102
Forbes Lake	12.20%	35
Juanita Creek	45.99%	132
Lake Washington	66.20%	190
Totem Lake	25.78%	74
Yarrow Creek	10.80%	31
I don't know	4.88%	14
All of the above	0.00%	0
I don't interact with Kirkland's creeks or lakes	4.18%	12
Other (please specify)	3.48%	10
Total Respondents: 287		



## Q2 What do you most value in Kirkland's creeks and lakes? Choose all that apply.

Answered: 279 Skipped: 10

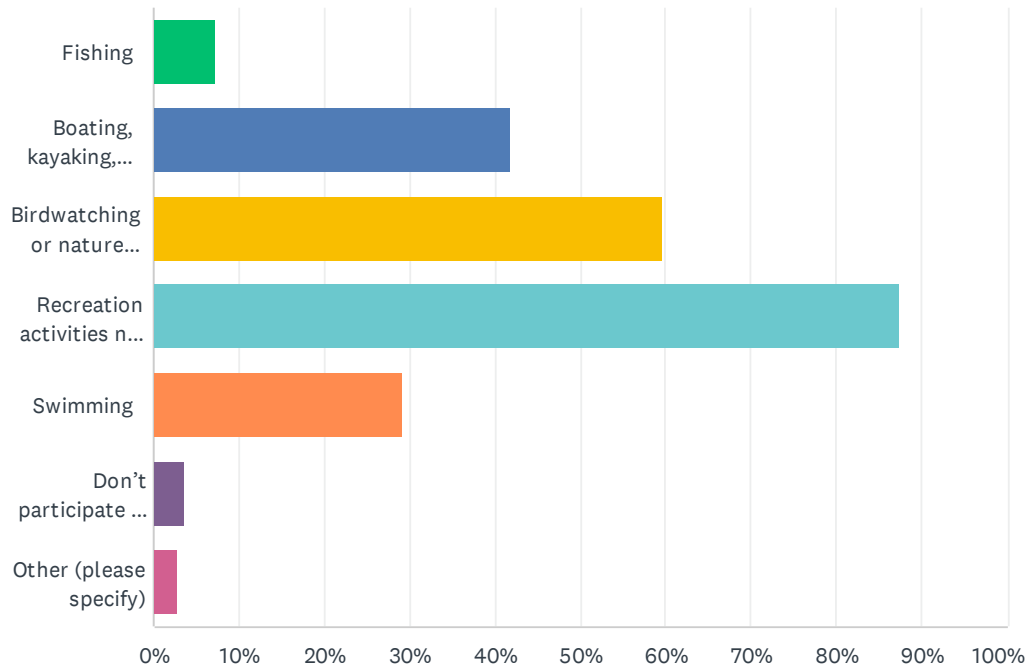


## Kirkland Surface Water Master Plan Survey

ANSWER CHOICES	RESPONSES	
Clean water	85.30%	238
Connect with nature	74.19%	207
Connect with religion or spirituality	5.38%	15
Important to our heath	40.86%	114
Recreational opportunities	46.95%	131
Salmon habitat	60.22%	168
Scenery/views	67.03%	187
Wildlife habitat	81.00%	226
All of the above	0.00%	0
Don't know	0.72%	2
Something else (please specify)	2.87%	8
Total Respondents: 279		

### Q3 In what ways have you or other members of your household used or enjoyed the creeks or lakes in Kirkland during the past year? Choose all that apply.

Answered: 278 Skipped: 11



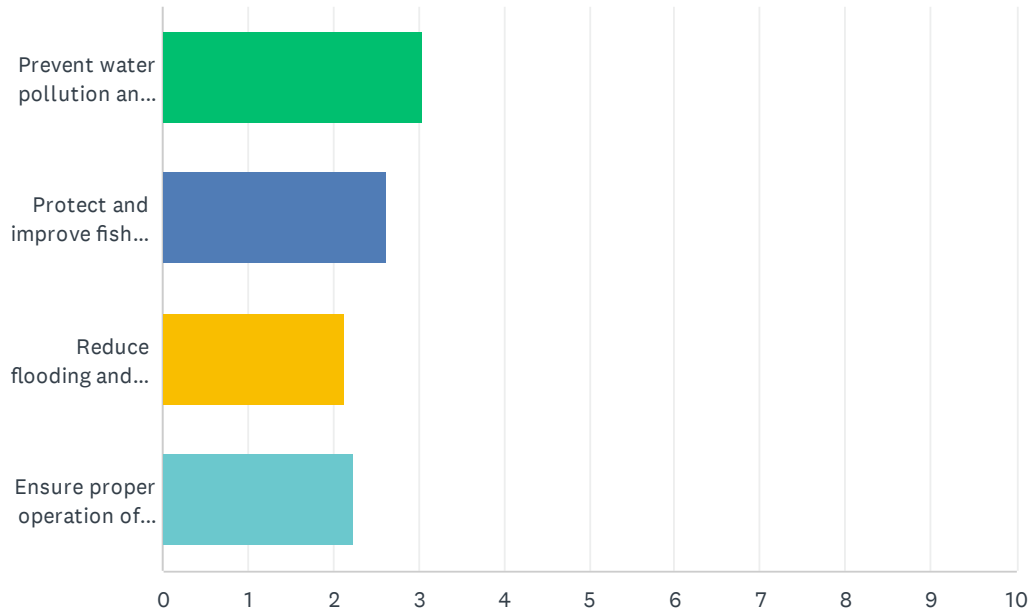
ANSWER CHOICES	RESPONSES	
Fishing	7.19%	20
Boating, kayaking, standup paddleboard, or other recreation on the water	41.73%	116
Birdwatching or nature watching	59.71%	166
Recreation activities near the water (walking, running, hiking, biking, etc.)	87.41%	243
Swimming	29.14%	81
Don't participate in activities in or near creeks or lakes	3.60%	10
Other (please specify)	2.88%	8
Total Respondents: 278		

**Q4 Is there anything else that you'd like to share about your values or concerns related to Kirkland's creek and lakes?**

Answered: 60   Skipped: 229

## Q5 Please rank your overall priorities for the Storm and Surface Water Division. Rank (1) for highest priority and (4) for lowest priority.

Answered: 273 Skipped: 16



	1	2	3	4	TOTAL	SCORE
Prevent water pollution and improve water quality in our creeks, lakes, and wetlands	37.50% 99	34.85% 92	21.97% 58	5.68% 15	264	3.04
Protect and improve fish and wildlife habitat in our creeks, lakes, and wetlands	27.14% 73	30.86% 83	19.70% 53	22.30% 60	269	2.63
Reduce flooding and mitigate flooding impacts in our streets and neighborhoods	18.52% 50	14.81% 40	28.52% 77	38.15% 103	270	2.14
Ensure proper operation of all stormwater drainage systems in Kirkland	18.05% 48	20.30% 54	28.95% 77	32.71% 87	266	2.24

**Q6 Please share any additional comments regarding your overall priorities/rankings for the Storm and Surface Water Division.**

Answered: 54   Skipped: 235

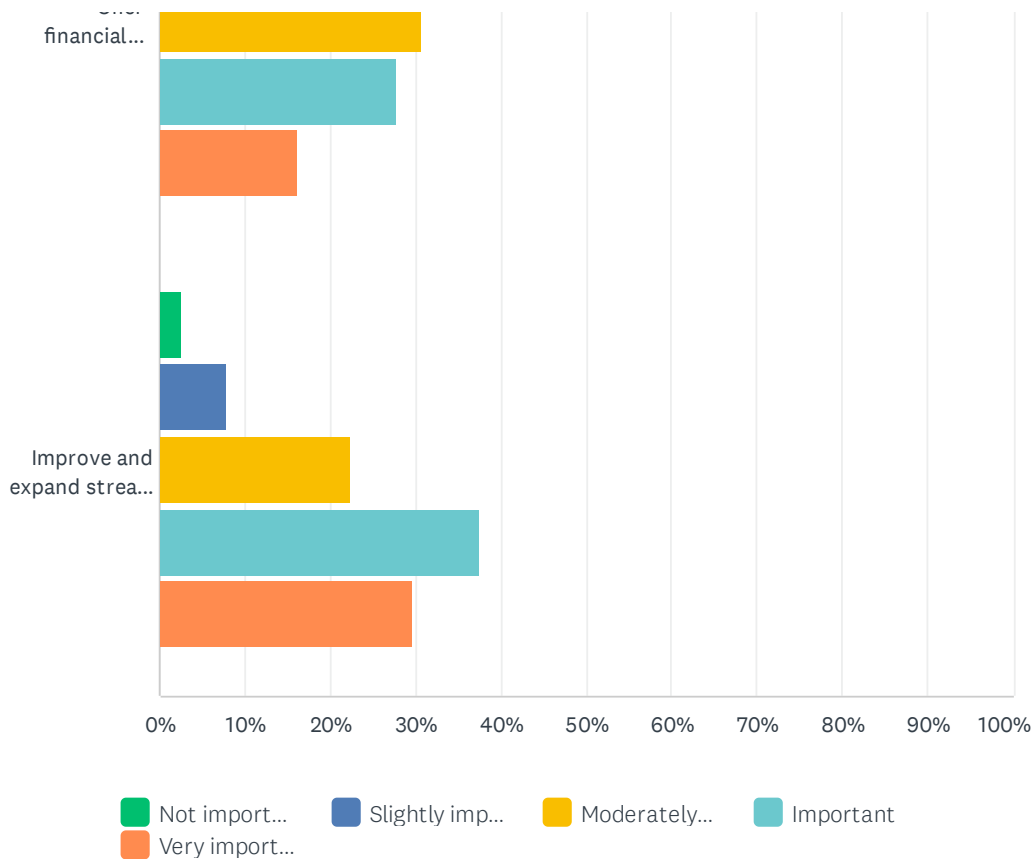


Q7 What do you think the Storm and Surface Water Division should focus on to improve water quality in our creeks, lakes, and wetlands? Please rate each of the following actions based on importance:

Answered: 271 Skipped: 18



## Kirkland Surface Water Master Plan Survey



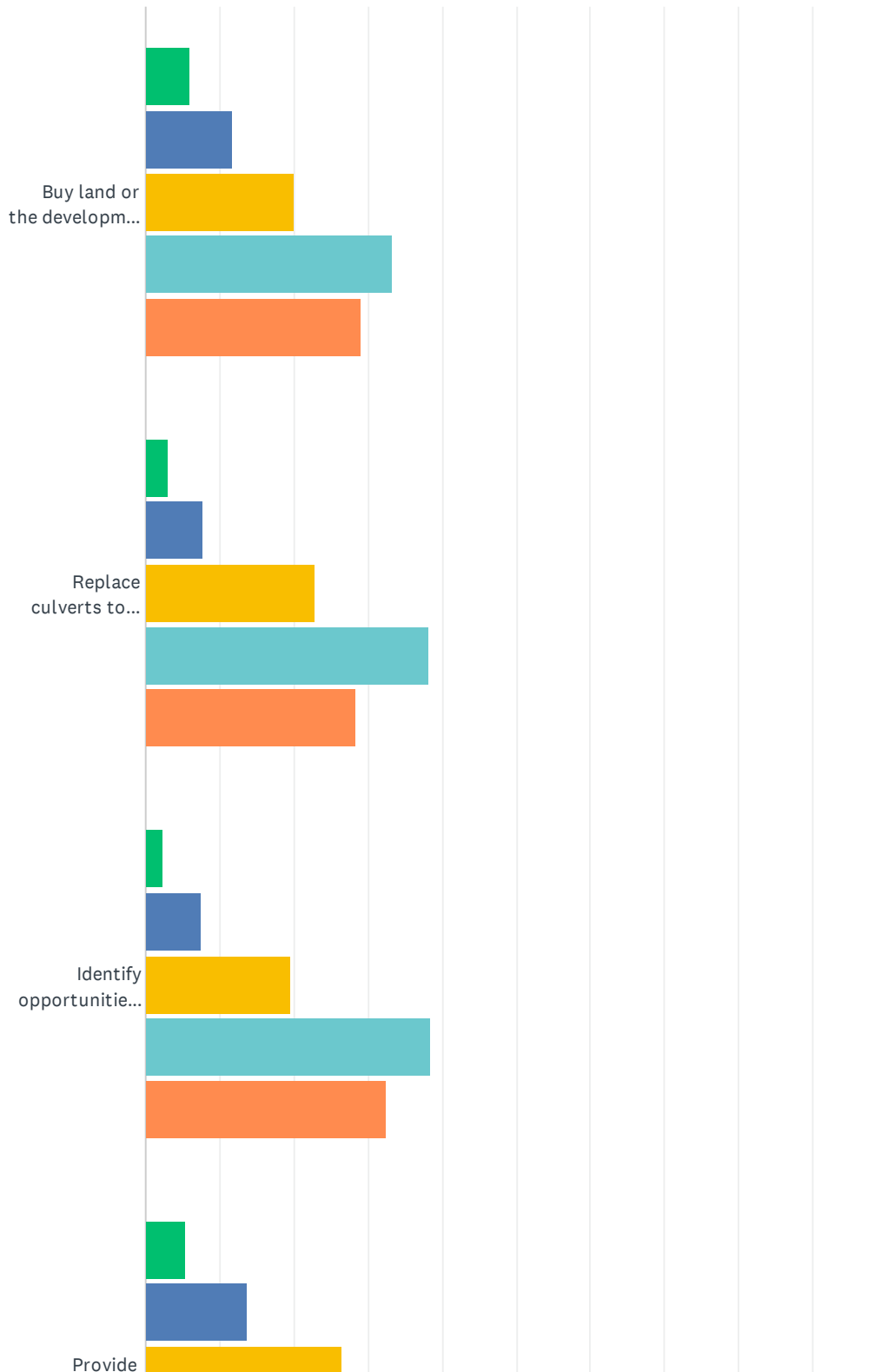
	NOT IMPORTANT	SLIGHTLY IMPORTANT	MODERATELY IMPORTANT	IMPORTANT	VERY IMPORTANT	TOTAL	WEIGHTED AVERAGE
Build stormwater treatment facilities (rain gardens, ponds, filters, etc.) on City-owned property.	2.58% 7	7.01% 19	23.62% 64	34.69% 94	32.10% 87	271	3.87
Education and outreach to encourage behaviors that reduce water pollution.	3.33% 9	11.85% 32	21.11% 57	31.85% 86	31.85% 86	270	3.77
Increase enforcement to prevent pollution to local waterways.	4.07% 11	10.00% 27	15.19% 41	29.26% 79	41.48% 112	270	3.94
Offer financial incentives to private property owners to improve water quality in our creeks, lakes, and wetlands.	9.63% 26	15.56% 42	30.74% 83	27.78% 75	16.30% 44	270	3.26
Improve and expand stream health monitoring to include new methodologies and/or new pollutants of concern.	2.60% 7	7.81% 21	22.30% 60	37.55% 101	29.74% 80	269	3.84

**Q8 Please share any other actions you think the Storm and Surface Water Division should focus on to improve water quality in our creeks, lakes, and wetlands.**

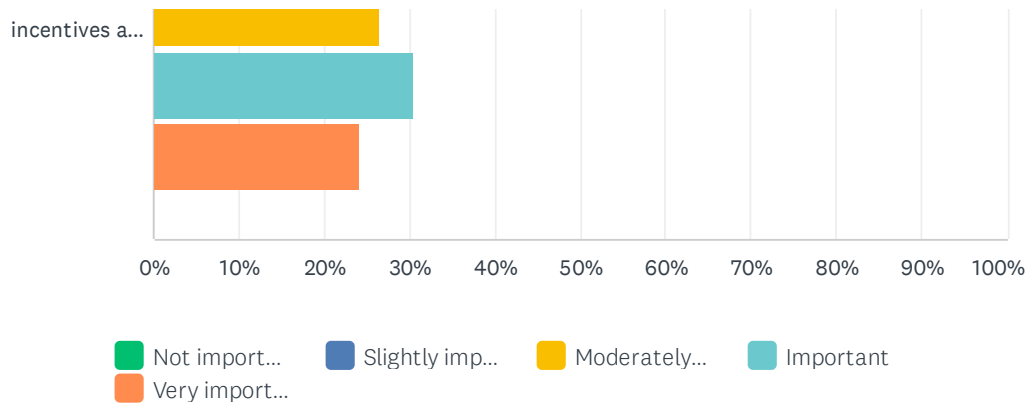
Answered: 44   Skipped: 245

Q9 What do you think the Storm and Surface Water Division should focus on to protect and enhance in-stream habitat conditions for fish and wildlife?  
Please rate each of the following actions based on importance:

Answered: 266 Skipped: 23



## Kirkland Surface Water Master Plan Survey



	NOT IMPORTANT	SLIGHTLY IMPORTANT	MODERATELY IMPORTANT	IMPORTANT	VERY IMPORTANT	TOTAL	WEIGHTED AVERAGE
Buy land or the development rights on property with important habitat (wetlands, areas along creeks, etc.).	6.04% 16	11.70% 31	20.00% 53	33.21% 88	29.06% 77	265	3.68
Replace culverts to improve fish passage and habitat access.	3.03% 8	7.58% 20	22.73% 60	38.26% 101	28.41% 75	264	3.81
Identify opportunities and implement habitat restoration projects on public open spaces.	2.26% 6	7.52% 20	19.55% 52	38.35% 102	32.33% 86	266	3.91
Provide incentives and technical assistance to property owners for habitat stewardship activities (free plants, labor, etc.).	5.28% 14	13.58% 36	26.42% 70	30.57% 81	24.15% 64	265	3.55

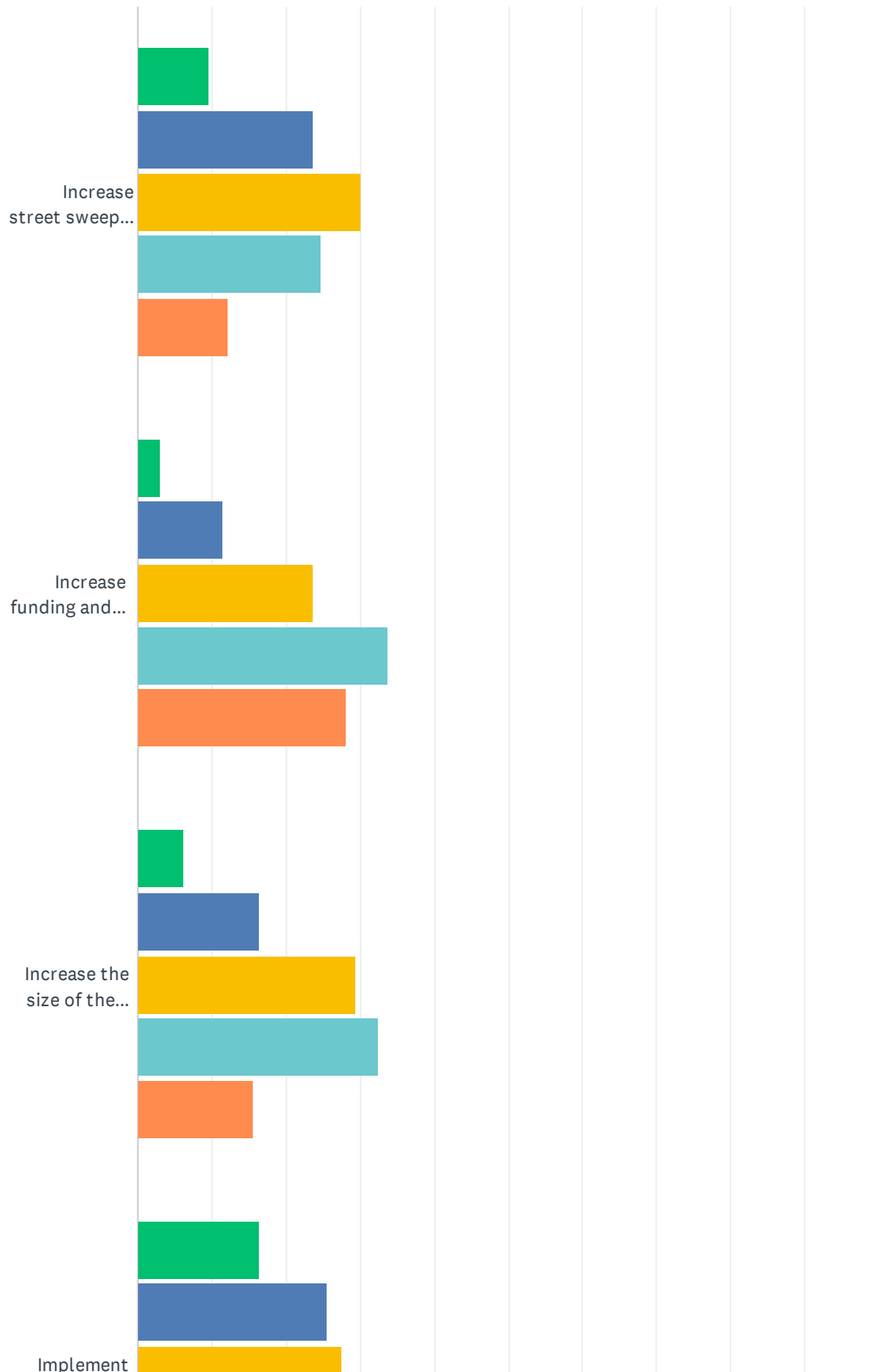
**Q10 Please share any other actions you think the Storm and Surface Water Division should focus on to protect and enhance in-stream habitat conditions for fish and wildlife.**

Answered: 28   Skipped: 261

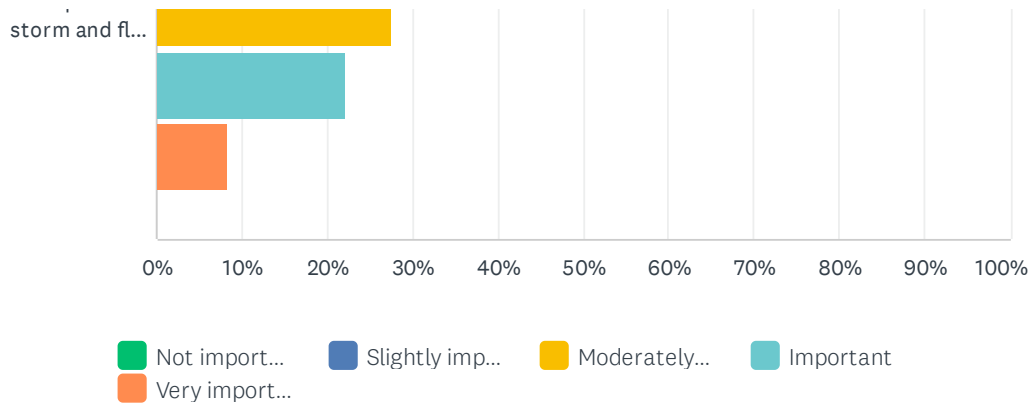


**Q11 What do you think the Storm and Surface Water Division should focus on to reduce flooding in our streets and neighborhoods? Please rate each of the following actions based on importance:**

Answered: 265 Skipped: 24



## Kirkland Surface Water Master Plan Survey



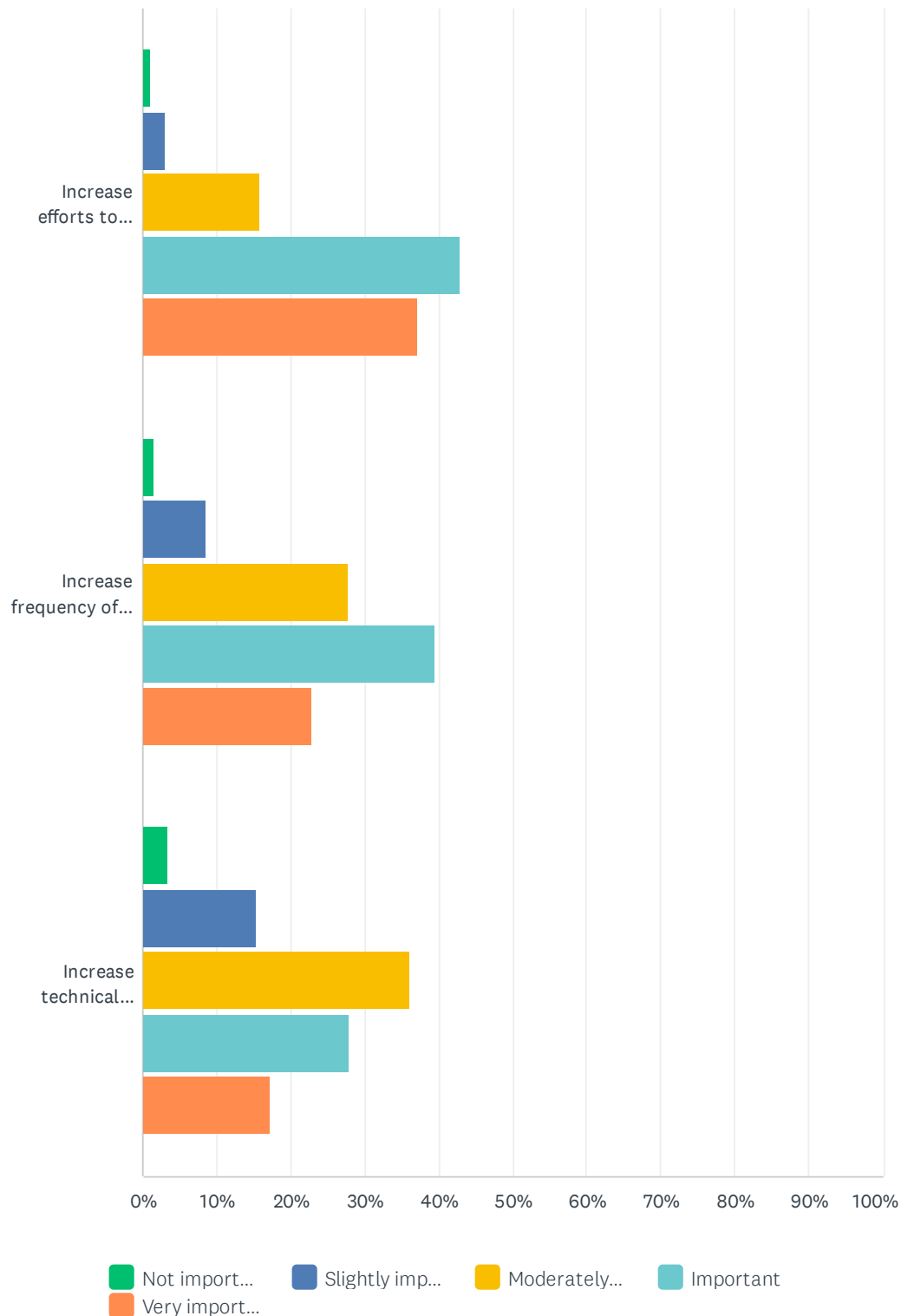
	NOT IMPORTANT	SLIGHTLY IMPORTANT	MODERATELY IMPORTANT	IMPORTANT	VERY IMPORTANT	TOTAL	WEIGHTED AVERAGE
Increase street sweeping frequency.	9.51% 25	23.57% 62	30.04% 79	24.71% 65	12.17% 32	263	3.06
Increase funding and resources to infrastructure projects that will correct flooding issues.	3.05% 8	11.45% 30	23.66% 62	33.59% 88	28.24% 74	262	3.73
Increase the size of the City's stormwater pipes and ditches to carry more water and help manage increased intense rainstorms.	6.11% 16	16.41% 43	29.39% 77	32.44% 85	15.65% 41	262	3.35
Implement storm and flood alert system for Kirkland community.	16.41% 43	25.57% 67	27.48% 72	22.14% 58	8.40% 22	262	2.81

Q12 Please share any other actions you think the Storm and Surface Water Division should focus on to reduce flooding in our streets and neighborhoods.

Answered: 36   Skipped: 253

**Q13 What do you think the Storm and Surface Water Division should focus on to ensure proper operation of all stormwater systems in Kirkland?**  
Please rate each of the following actions based on importance:

Answered: 262 Skipped: 27



# Kirkland Surface Water Master Plan Survey

	NOT IMPORTANT	SLIGHTLY IMPORTANT	MODERATELY IMPORTANT	IMPORTANT	VERY IMPORTANT	TOTAL	WEIGHTED AVERAGE
Increase efforts to repair and replace aging and failing stormwater pipes and structures.	1.15% 3	3.07% 8	15.71% 41	42.91% 112	37.16% 97	261	4.12
Increase frequency of inspection and cleaning of stormwater pipes and structures.	1.54% 4	8.49% 22	27.80% 72	39.38% 102	22.78% 59	259	3.73
Increase technical assistance for maintenance of stormwater systems on private property.	3.45% 9	15.33% 40	36.02% 94	27.97% 73	17.24% 45	261	3.40

**Q14 Please share any other actions you think the Storm and Surface Water Division should focus on to ensure proper operation of all stormwater systems in Kirkland.**

Answered: 27   Skipped: 262

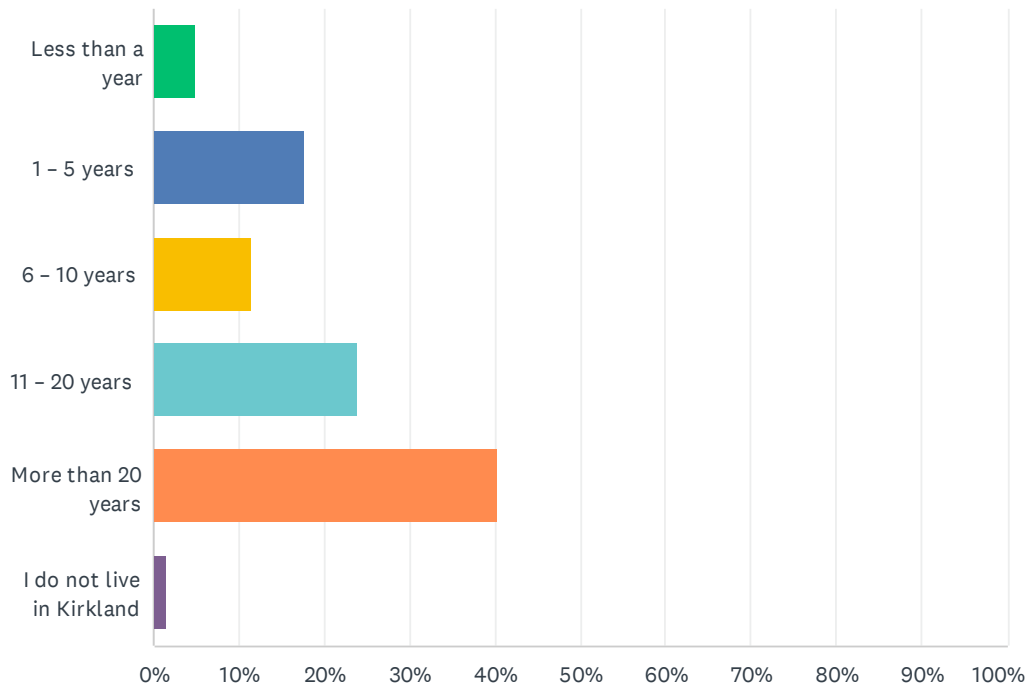


**Q15 Is there anything else you would like the City to consider as we develop the Surface Water Master Plan?**

Answered: 66   Skipped: 223

## Q16 How long have you lived in Kirkland?

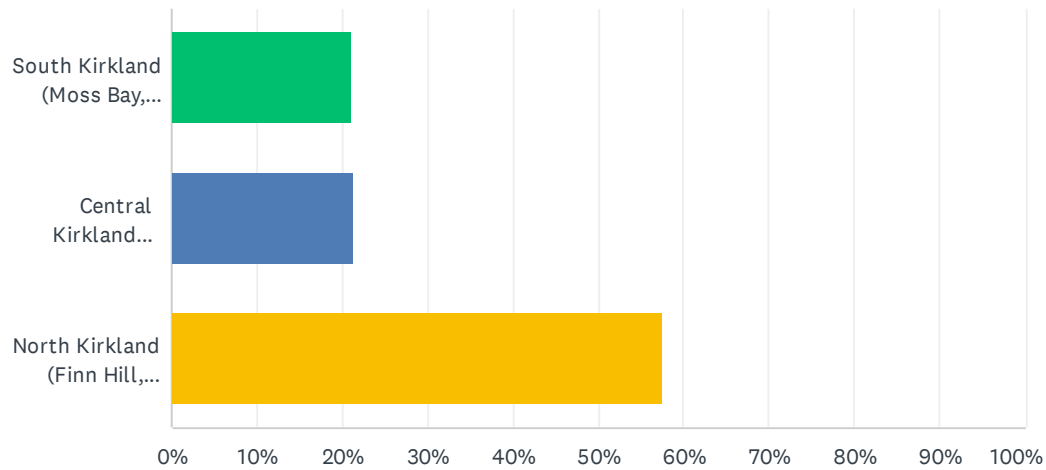
Answered: 260 Skipped: 29



ANSWER CHOICES	RESPONSES	
Less than a year	5.00%	13
1 – 5 years	17.69%	46
6 – 10 years	11.54%	30
11 – 20 years	23.85%	62
More than 20 years	40.38%	105
I do not live in Kirkland	1.54%	4
<b>TOTAL</b>		<b>260</b>

## Q17 In which part of Kirkland do you live, work, or spend the most time in?

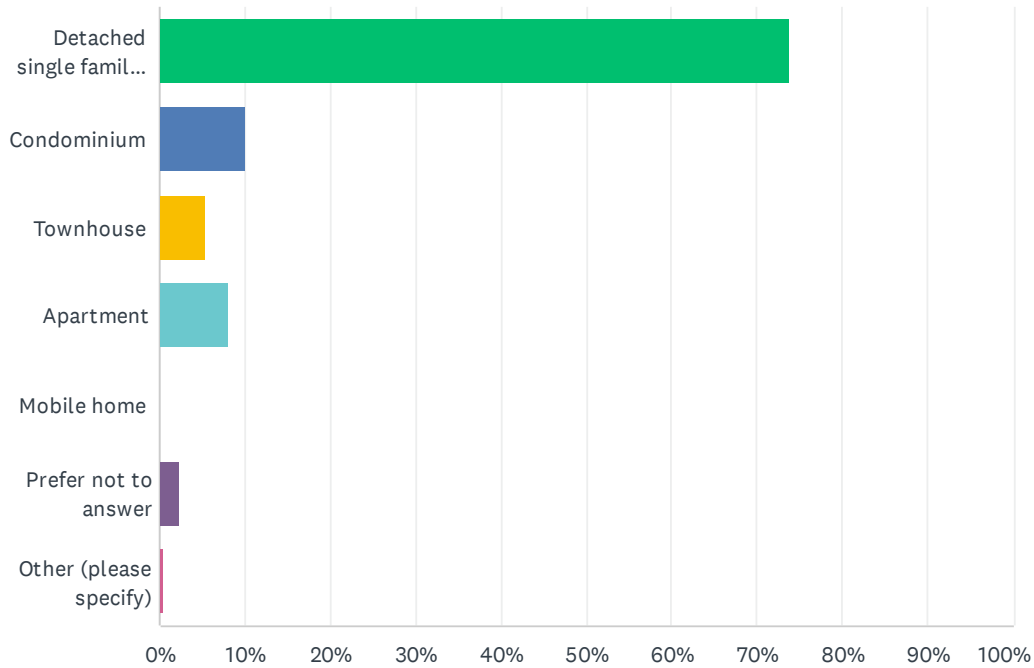
Answered: 257   Skipped: 32



ANSWER CHOICES	RESPONSES	
South Kirkland (Moss Bay, Everest, South Rose Hill, Lakeview, Central Houghton, Bridle Trails)	21.01%	54
Central Kirkland (Market, Norkirk, Highlands, North Rose Hill)	21.40%	55
North Kirkland (Finn Hill, Juanita, Kingsgate, Totem Lake)	57.59%	148
TOTAL		257

## Q18 Which of the following best describes your current home?

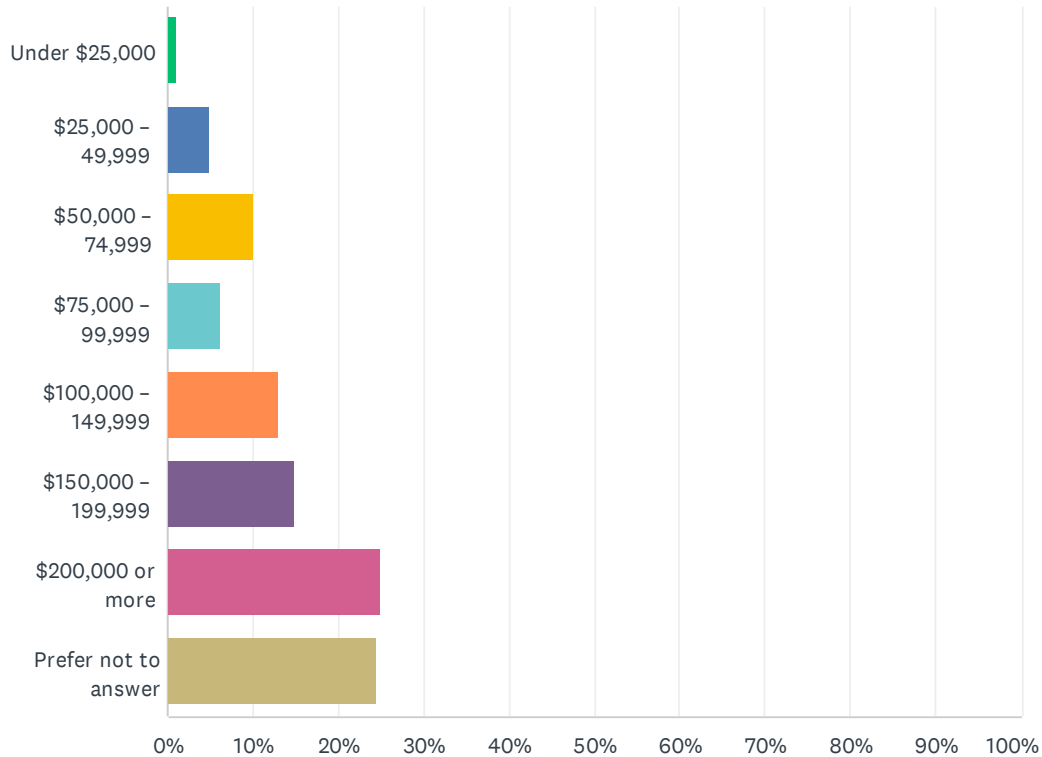
Answered: 260 Skipped: 29



ANSWER CHOICES	RESPONSES	
Detached single family home	73.85%	192
Condominium	10.00%	26
Townhouse	5.38%	14
Apartment	8.08%	21
Mobile home	0.00%	0
Prefer not to answer	2.31%	6
Other (please specify)	0.38%	1
TOTAL		260

## Q19 Which of these categories best describes the total gross annual income of your household (before taxes)?

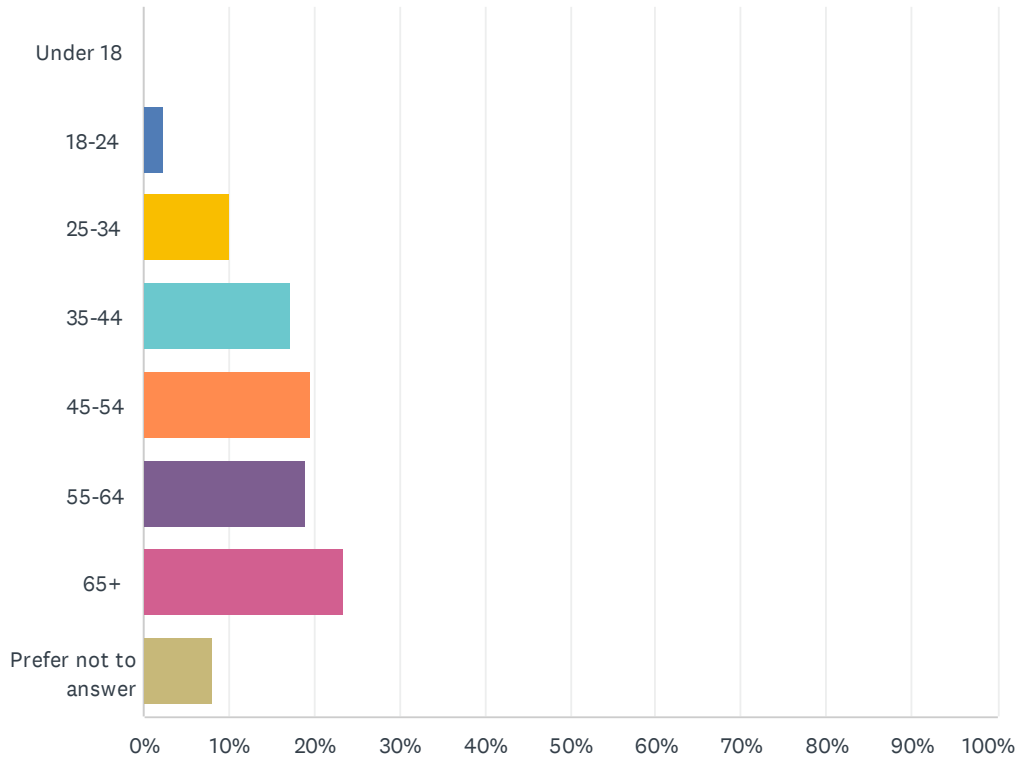
Answered: 260 Skipped: 29



ANSWER CHOICES	RESPONSES	
Under \$25,000	1.15%	3
\$25,000 – 49,999	5.00%	13
\$50,000 – 74,999	10.00%	26
\$75,000 – 99,999	6.15%	16
\$100,000 – 149,999	13.08%	34
\$150,000 – 199,999	15.00%	39
\$200,000 or more	25.00%	65
Prefer not to answer	24.62%	64
<b>TOTAL</b>		<b>260</b>

## Q20 What is your age?

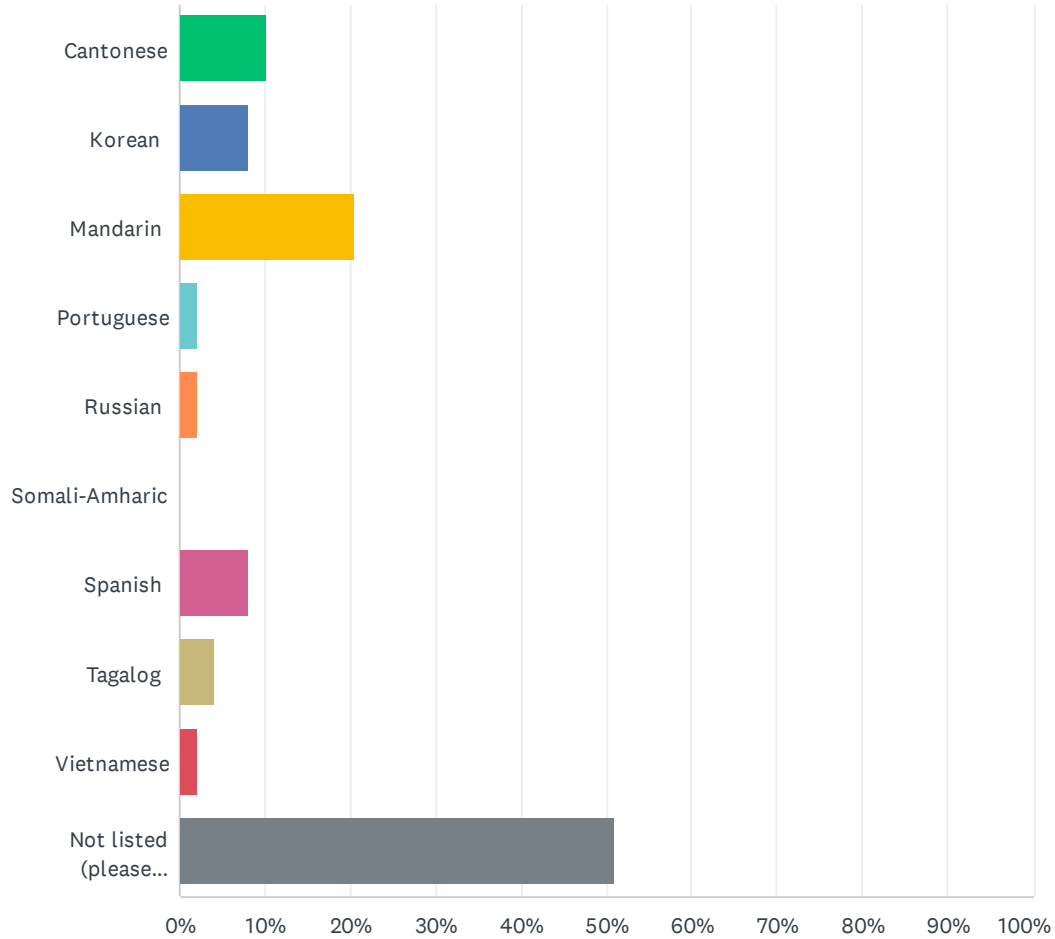
Answered: 259 Skipped: 30



ANSWER CHOICES	RESPONSES	
Under 18	0.00%	0
18-24	2.32%	6
25-34	10.04%	26
35-44	17.37%	45
45-54	19.69%	51
55-64	18.92%	49
65+	23.55%	61
Prefer not to answer	8.11%	21
<b>TOTAL</b>		<b>259</b>

## Q21 Are there any languages other than English spoken in your household? If so, select all that apply.

Answered: 49 Skipped: 240



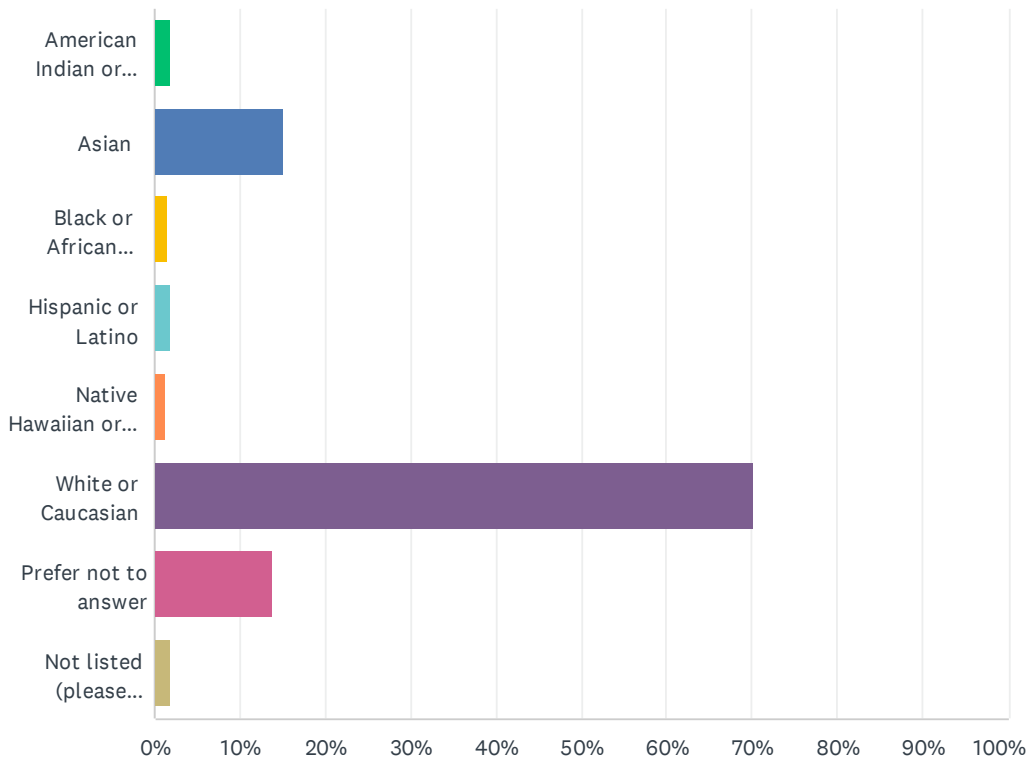
## Kirkland Surface Water Master Plan Survey

ANSWER CHOICES	RESPONSES	
Cantonese	10.20%	5
Korean	8.16%	4
Mandarin	20.41%	10
Portuguese	2.04%	1
Russian	2.04%	1
Somali-Amharic	0.00%	0
Spanish	8.16%	4
Tagalog	4.08%	2
Vietnamese	2.04%	1
Not listed (please specify)	51.02%	25
Total Respondents: 49		



## Q22 Do you consider yourself... (select all that apply)

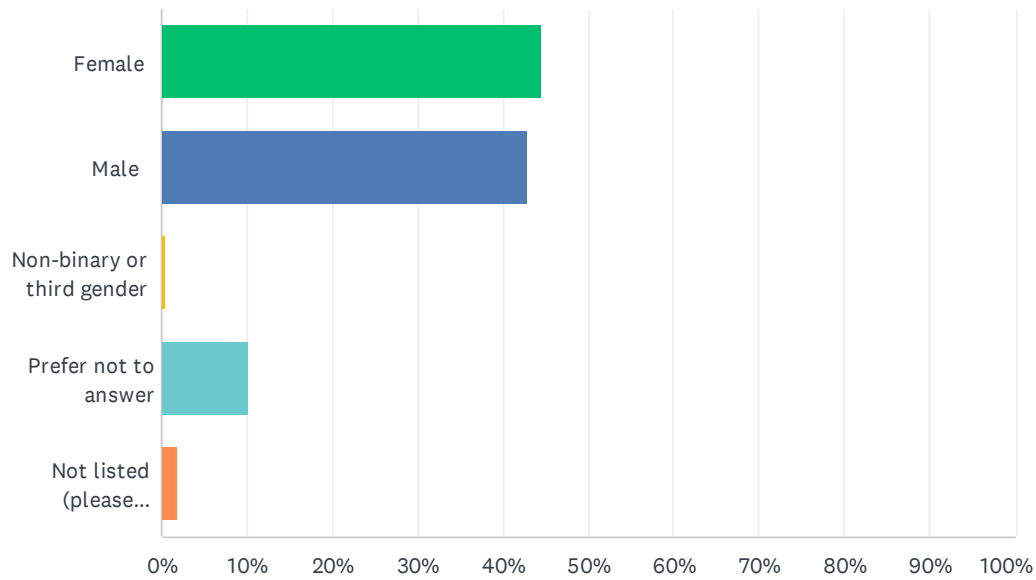
Answered: 252 Skipped: 37



ANSWER CHOICES	RESPONSES	
American Indian or Alaska Native	1.98%	5
Asian	15.08%	38
Black or African American	1.59%	4
Hispanic or Latino	1.98%	5
Native Hawaiian or Other Pacific Islander	1.19%	3
White or Caucasian	70.24%	177
Prefer not to answer	13.89%	35
Not listed (please specify)	1.98%	5
Total Respondents: 252		

## Q23 Which gender do you identify with?

Answered: 254   Skipped: 35



ANSWER CHOICES	RESPONSES	
Female	44.49%	113
Male	42.91%	109
Non-binary or third gender	0.39%	1
Prefer not to answer	10.24%	26
Not listed (please specify)	1.97%	5
<b>TOTAL</b>		<b>254</b>

**Is there anything else that you'd like to share about your values or concerns related to Kirkland's creek and lakes?**

<p><b>Ecosystems/wildlife/habitat (14)</b></p>	<ul style="list-style-type: none"> <li>○ <i>Give wildlife space!</i></li> <li>○ <i>It's a wildlife highway.</i></li> <li>○ <i>I think we're very fortunate to have these water spaces in Kirkland that are important to the ecosystem and improve our quality of life, and I hope that any changes to the master plan will focus on protecting them.</i></li> <li>○ <i>Don't mess with nature's own engineers and builders; the beavers! Leave them alone.</i></li> <li>○ <i>We need to make sure the habitat near Kirkland's creeks and lakes remain clean and forested with native rather than non native plants. Keeping the tree canopy surrounding the creeks is critical in order to keep the water in the creeks cool for juvenile and spawning salmon. Native trees and shrubs help absorb storm water toxins before they enter creeks, streams and lakes. Preserving riparian areas near waterways rather than denuding them for housing or industrial development is very important! Please seriously consider these suggestions in your future development plans for Kirkland!</i></li> <li>○ <i>Please prioritize keeping the water clean and the wildlife safe/protected.</i></li> <li>○ <i>Concerned with warm water and more algae growth with climate change. Concerned about salmon's survival.</i></li> <li>○ <i>Streams like Juanita and Denny creeks need to be made more salmon friendly.</i></li> <li>○ <i>Make sure that adjoining property owners keep culverts unblocked so that water flows as it is supposed to, supporting fish, birds, deer, bobcats, foxes, and other wildlife in our neighborhoods along the creek or nearby.</i></li> <li>○ <i>I wish the water was cleaner and the blackberries gone, with native plants flourishing.</i></li> <li>○ <i>They're part of why I enjoy living in this area and they're vital ecosystems for wildlife and plants. My biggest concern is the potential for human pollution to destroy the natural habits beyond repair.</i></li> <li>○ <i>if we kill the wild animals, we will die next</i></li> <li>○ <i>Please keep them clean for the animals and birds for their habitat.</i></li> <li>○ <i>I also highly value keeping our lakes and creeks clean for the wildlife</i></li> </ul>
<p><b>Water Quality (12)</b></p>	<ul style="list-style-type: none"> <li>○ <i>Untreated storm water and runoff degrades the streams.</i></li> <li>○ <i>I am concerned with persistent organic pollutants getting in our water bodies that lead to toxic bioaccumulation in the local wildlife. If there can be more research efforts towards understanding the sources of these pollutants and how to reduce them would be valuable to the community.</i></li> <li>○ <i>Please prioritize keeping the water clean and the wildlife safe/protected.</i></li> <li>○ <i>i worry that the pavement is not porous enough and the run off from fin hill is toxic, especially where acres of new development are going in</i></li> <li>○ <i>Concerned with warm water and more algae growth with climate change. Concerned about salmon's survival.</i></li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>Worried about contaminated stormwater runoff flowing into (or as part of) our creeks and into Lake Washington, etc.</i></li> <li>○ <i>Clean water is life, and relies on all the areas around it to keep it clean. stricter pollution laws would help- lawn product restrictions, gas leaf blower ban, etc..maybe alternatives subsidies to help small business owners.</i></li> <li>○ <i>I live in Everest at Kirkland Way and Railroad and the creek run right by there. I was shocked one day to see a city worker spraying herbicide along the corner edge where blackberries and weeds grow. When I approached him he said that a homeowner had put in a request for the weeds to be controlled and assured me it was systemic and dried fast therefore not effecting the water running in the creek that goes directly in the Lake WA. I found that hard to believe and would like to see other alternatives used.</i></li> <li>○ <i>Major concern of car washing using soap that flows directly into our creeks and then Lake Washington</i></li> <li>○ <i>I wish the water was cleaner and the blackberries gone, with native plants flourishing.</i></li> <li>○ <i>keep it clean</i></li> <li>○ <i>Need to educate the public about moss treatment on roofs, proper washing practices, and what is not allowed into drains.</i></li> </ul>
<b>Development Concerns (7)</b>	<ul style="list-style-type: none"> <li>○ <i>i worry that the pavement is not porous enough and the run off from fin hill is toxic, especially where acres of new development are going in</i></li> <li>○ <i>Storm water control on western finn hill.</i></li> <li>○ <i>Please don't let them be further encroached upon. I live in Hidden River Townhomes and consider myself so lucky to have Juanita Creek running through the property. But this property should never have been built! Building setbacks from the creek are no more than 30 feet, significantly diminishing the wildlife area around the creek, and no doubt leading to increased pollution.</i></li> <li>○ <i>construction removing too many trees in and around lakes and streams damaging wildlife habitats.</i></li> <li>○ <i>Please stop allowing builders to cut down all the tress. The city is being foolish and knowingly allowing long term harm by cow towing to builders. It's just absurd. The NE 85th Area plan will obviously cause irreparable harm to Forbes Creek watershed. You are clearly prioritizing tax dollars over our planet's health.</i></li> <li>○ <i>Would welcome more daylighting. If that means redirecting traffic or losing parking, so be it. Am concerned about unwelcome effects the I-405/85th interchange construction may have on nearby streams.</i></li> <li>○ <i>We're concerned that much of the undeveloped treed areas have been turned into housing. That contributes to the storm andd surface water issues.</i></li> </ul>

<b>General Appreciation/Kudos (8)</b>	<ul style="list-style-type: none"> <li>○ <i>I think Kirkland has done a great job on the creek at Hazen Hill Park.</i></li> <li>○ <i>I swim year round - truly magical</i></li> <li>○ <i>Our family loves to be around water bodies and green spaces around it</i></li> <li>○ <i>Really clean and good right now. No problems.</i></li> <li>○ <i>I appreciate that walking or bicycling on the Cross-Kirkland trail gives me an opportunity to see and listen to these waters.</i></li> <li>○ <i>I think it's a beautiful place.</i></li> <li>○ <i>I appreciate city taking care of them</i></li> <li>○ <i>Very much appreciate having the opinions of the household solicited.</i></li> </ul>
<b>Clean Swimming Areas (4)</b>	<ul style="list-style-type: none"> <li>○ <i>During the summer areas are often closed. We are thankful it is monitored to maintain safety.</i></li> <li>○ <i>Concerning the number of days the beaches are closed due to unhealthy water levels.</i></li> <li>○ <i>Improve summer water quality at Juanita Beach Park.</i></li> <li>○ <i>Biggest concern is geese droppings and not being able to swim due to bacteria outbreaks. Obviously there is human waste going into our streams and lake.</i></li> </ul>
<b>Dogs (3)</b>	<ul style="list-style-type: none"> <li>○ <i>We need to do more to keeps kids/dogs/people crashing through the riparian zones. Especially at Everest park.</i></li> <li>○ <i>Off-leash dogs and irresponsible owners who don't control or clean up after them. They are a major problem that Kirkland itself has said contributes to dirty water and harms citizens' enjoyment of Kirkland's parks.</i></li> <li>○ <i>Keep pet runoff out of creeks and lakes. Too many poo flingers either leaving dog poo on street and lawns or wrapping it a flinging it in bushes and trees.</i></li> </ul>
<b>Litter (3)</b>	<ul style="list-style-type: none"> <li>○ <i>Trash pickup needs to be more frequent during good weather. Overflowing trash barrels speak poorly of city government rather than uncaring patrons.</i></li> <li>○ <i>Curious who keeps the creeks and lakes clean from litter, who's responsible for consistent cleaning</i></li> <li>○ <i>i wish we had constant litter control around our creeks.</i></li> </ul>
<b>Flooding Concerns (2)</b>	<ul style="list-style-type: none"> <li>○ <i>Flooding has worsened and needs to be addressed in plan even if standards were different during initial development decades ago.</i></li> <li>○ <i>Protect from flooding neighborhoods</i></li> </ul>
<b>Public Access to Water (2)</b>	<ul style="list-style-type: none"> <li>○ <i>It is easy to loose public access to the water and this must be protected. Give wildlife space!</i></li> <li>○ <i>We really need a bigger boat launch, multiple lanes, parking, etc</i></li> </ul>
<b>Sewage/Septic (2)</b>	<ul style="list-style-type: none"> <li>○ <i>The ongoing issue with how septic systems leach into the creeks and lake but geese are blamed for it.</i></li> <li>○ <i>Biggest concern is geese droppings and not being able to swim due to bacteria outbreaks. Obviously there is human waste going into our streams and lake.</i></li> </ul>

<b>All Other (6)</b>	<ul style="list-style-type: none"> <li>○ <i>Balance between preservation and the value of the owner's land near the water. Not fair to penalize owners near waterways with new restrictions.</i></li> <li>○ <i>I feel hamstrung and abandoned by the city and state when it comes to responsibly managing outflow from Forbes Lake.</i></li> <li>○ <i>We need (sometime in the near future) more designated mountain bike trails....The local walking/hiking trails often get "over crowded" with bikes &amp; pedestrians.</i></li> <li>○ <i>Please just maintain what we have.</i></li> <li>○ <i>Would love some regulation around managing noise from powerboats on Lake Washington.</i></li> <li>○ <i>I would love to see restrictions on power boats on Lake Washington.</i></li> </ul>
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Please share any additional comments regarding your overall priorities/rankings for the Storm and Surface Water Division.

<p><b>All Four Are a Priority (19)</b></p>	<ul style="list-style-type: none"> <li>○ <i>All four should be accomplished .</i></li> <li>○ <i>Seems like the above should all be prioritized.</i></li> <li>○ <i>The first 2 choices are part of the last 2 choices....</i></li> <li>○ <i>If the system is properly designed and operating properly the other 3 components should fall into place.</i></li> <li>○ <i>I think the above isn't really a valid question. Each of these "priorities" is important and interconnected.</i></li> <li>○ <i>I have no idea how to rank them. They all seem important and interrelated.</i></li> <li>○ <i>I'm not sure there is any of those 4 you can skip - I think they are all needed. To the extent there is a priority, clean water and wildlife are more important than flood control</i></li> <li>○ <i>Lots of overlap between these choices...</i></li> <li>○ <i>I would hope that by prioritizing the proper operation of our storm and surface water infrastructure we would also be protecting water quality and wildlife. These are interrelated.</i></li> <li>○ <i>Appreciate you all investing in these areas!</i></li> <li>○ <i>All the priorities are important and are inter-related. I prioritized the items in the natural order. I feel that once SW systems are operating properly, it will help reduce flooding, which will help prevent water pollution and improve water quality, and in turn will protect and improve fish and wildlife.</i></li> <li>○ <i>this one is really tough to rank. all of them are important. to me, my 1 &amp; 2 (protect nature, ensure proper operation) causes my 3 &amp; 4 (prevent pollution, reduce flooding).</i></li> <li>○ <i>Feels like there should be a way to do things that'll improve in all 4 goals mentioned.</i></li> <li>○ <i>If pollution and wildlife are prioritized, flooding prevention and stormwater drainage will be positively affected. Costing less.</i></li> <li>○ <i>They are all high priorities, despite the rankings</i></li> <li>○ <i>Maintenance comes first because it seems that a well-maintained system inherently helps with the other items on the list. Flood mitigation is last because my impression as a long-term resident is that it is not a huge problem in the city, and we ought to favor reversing previous harm done to our natural resources.</i></li> <li>○ <i>Those are all important and can honestly be deemed equal in the ratings.</i></li> <li>○ <i>Surely preventing water pollution &amp; improving water quality *also* helps protect &amp; improve fish &amp; wildlife habitat?</i></li> <li>○ <i>All are top priority</i></li> </ul>
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<b>Proper Maintenance/Reduce Flooding (7)</b>	<ul style="list-style-type: none"> <li>○ <i>Flooding creates pollution and damage to streets and properties, please mitigate current flooding issues based on today's understanding and standards.</i></li> <li>○ <i>Adequate management of rainwater runoff so it does not flood our garage/property. Years ago told new pipe would be installed to reduce this but nothing done to date.</i></li> <li>○ <i>Lots of streets in Kirkland have no drainage systems and sheet flow onto private property exacerbating local flooding</i></li> <li>○ <i>Managing outflow from Forbes Lake to prevent flooding around the lake is down to one person who is not a city employee and occasional kind neighbors whose property is most in danger of flooding.</i></li> <li>○ <i>Make physical inspections of water passageways to take care of obstructions.</i></li> <li>○ <i>Water damage to building structures can be a result of outdated infrastructure for storm water.</i></li> <li>○ <i>Proper Operations and mitigation need to be job #1</i></li> </ul>
<b>Limit Development (3)</b>	<ul style="list-style-type: none"> <li>○ <i>Some development may need to be reversed to allow water to spread out and sediment to settle</i></li> <li>○ <i>if only we could get developers to use more porous materials and preserve green space. wait a minute - why can't we!? Oh that's right, because city council won't get off their duff and do anything.</i></li> <li>○ <i>require all new construction to provide green space and water for wildlife</i></li> </ul>
<b>Increase Pervious Area/Reduce Impervious Area (3)</b>	<ul style="list-style-type: none"> <li>○ <i>Reducing impervious surfaces and incorporating permeable road material may assist in the reduction of flashiness in stream flow and some of the overall flooding issues, along with a reduction in pollutants reaching waterbodies.</i></li> <li>○ <i>In my neighborhood in Kirkland, small footprint houses with yards and gardens are being torn down, and the new houses that are built in their place are covering substantially more of the ground surface area. I hope that the city will consider limiting this type of development going forward as it seems in direct conflict with the goal to improve water quality and reduce flooding.</i></li> <li>○ <i>if only we could get developers to use more porous materials and preserve green space. wait a minute - why can't we!? Oh that's right, because city council won't get off their duff and do anything.</i></li> </ul>
<b>Maintain Open Space/Wooded Areas (3)</b>	<ul style="list-style-type: none"> <li>○ <i>if only we could get developers to use more porous materials and preserve green space. wait a minute - why can't we!? Oh that's right, because city council won't get off their duff and do anything.</i></li> <li>○ <i>don't disturb wooded hillsides which are in slide areas</i></li> <li>○ <i>require all new construction to provide green space and water for wildlife</i></li> </ul>
<b>Eliminate Sewage Leaks (3)</b>	<ul style="list-style-type: none"> <li>○ <i>Why is there always a sewage leak from Juanita to Houghton into Lake Washington every year? Last year it happened 3 times, this needs to stop!</i></li> <li>○ <i>Would like to be SURE the water is clean to swim in year round - no CSO, no pollutants</i></li> <li>○ <i>Track down faulty septic systems in the Juanita Creek water basin.</i></li> </ul>
<b>Improve Habitat (2)</b>	<ul style="list-style-type: none"> <li>○ <i>I think reducing pollutants entering the water bodies and improve habitat for salmon and other wildlife are both a #1. Reducing impervious surfaces and incorporating permeable road material may</i></li> </ul>



	<p><i>assist in the reduction of flashiness in stream flow and some of the overall flooding issues, along with a reduction in pollutants reaching waterbodies.</i></p> <ul style="list-style-type: none"> <li>○ <i>Work with feds (corps of engineers) to help improve salmon and wildlife habitat</i></li> </ul>
<b>Safe Swimming (2)</b>	<ul style="list-style-type: none"> <li>○ <i>In relation to water pollution, I want to be sure that many of the waters continue to be safe for swimming year round.</i></li> <li>○ <i>Would like to be SURE the water is clean to swim in year round - no CSO, no pollutants</i></li> </ul>
<b>More Rain Gardens/Improve Rain Gardens (2)</b>	<ul style="list-style-type: none"> <li>○ <i>Installing rain gardens throughout the city would help in areas where there are lots of hard surfaces. These gardens could absorb the toxic storm water before it gets to waterways.</i></li> <li>○ <i>The rain catchment ponds and so called rain gardens that we see do not seem to be positioned to capture very much run off from roads. For example, the installations along Park Lane seem minimally effective</i></li> </ul>
<b>All Other (11)</b>	<ul style="list-style-type: none"> <li>○ <i>We need new style driveways, natural low spot drain fields with proper vegetation for street before they reach storm drains.</i></li> <li>○ <i>Daylight creeks under roads etc such as Denny creek under Juanita drive</i></li> <li>○ <i>Balance between preservation and the value of the owner's land near the water. Not fair to penalize owners near waterways with new restrictions.</i></li> <li>○ <i>Kirkland has really high quality water in our creeks and in Lake Washington. Just great for a populated village environment and supports wildlife well. Much better than crowded urban and areas like Seattle. Good balance of effective use by people for activities. There's no need for any additional regulation.</i></li> <li>○ <i>Poo flingers must be stopped.</i></li> <li>○ <i>Erosion prevention</i></li> <li>○ <i>Doing what is best for the planet long term will always be the correct choice.</i></li> <li>○ <i>environmentally safe is number 1</i></li> <li>○ <i>Too many people are unconnected with our local waters and how our street drains connect to them. This needs more education for the public to protect our streets and drama from pollution to keep our creeks and lake healthy and vibrant.</i></li> <li>○ <i>I personally rake lots of leaves from the street. I see other neighbors and landscapers just blowing leaves into the street. I would like to see the street sweeper truck come around the neighborhood more frequently in the fall. I only saw them once.</i></li> <li>○ <i>Kirkland is becoming an urban city and no longer a suburb. The priority now is how many dwellings can be packed into the city. Similar to what has happened in Redmond. A less desirable place.</i></li> </ul>

Please share any other actions you think the Storm and Surface Water Division should focus on to improve water quality in our creeks, lakes, and wetlands.

<b>Development restrictions/requirements (7)</b>	<ul style="list-style-type: none"> <li>○ Have remodeling/ building of homes do a better job at roof yard drainage .</li> <li>○ Consider adjusting setback requirements for new construction, so that new construction is not contributing to surface water runoff by covering more of the natural landscape. For example, houses in my neighborhood that previously had sizeable yards which could soak up rainfall are now torn down and replaced with houses that only have 10 or so feet of yard space on each side.</li> <li>○ PLEASE CREATE RULES FOR NEW DEVELOPMENTS</li> <li>○ Only allow a certain lot coverage of grass on private property.</li> <li>○ Be more aware of potential harm to waterways during the building permit process, especially for multi-family dwellings along the waterways or from which water from parking lots could enter those waterways.</li> <li>○ require Google to build parks and green spaces on their rooms and provide dedicated wildlife habitats. Since City Council has given a trillion dollar corp everything they want its about time google improved the environmental and wildlife habitats in Kirkland</li> <li>○</li> </ul>
<b>Incentives for rain gardens/cisterns/stormwater management (5)</b>	<ul style="list-style-type: none"> <li>○ We don't need to spend money to incentivize homeowners to deal with storm water. Planning already requires vaulting on any redeveloped property regardless of whether the vault is necessary. (Ask a local civil engineer how often they see this). Please avoid a "we know more than you, this is for the environment" attitude with property owners. In a well managed city, storm water containment would be a public infrastructure system.</li> <li>○ As a homeowner, I love financial incentives. However, I just want to be sure it provides a good return on the City's investment.</li> <li>○ Provide grants and priority permitting to build rain gardens on private property or the City partners with private property owners to build the rain gardens.</li> <li>○ I like the idea of providing incentives to private property owners and outreach to them for awareness of incentives and behaviors that will reduce pollution. Getting community involved helps with scale and can reach more property than city has ownership of.</li> <li>○ Provide low cost rain barrels to collect water run off</li> </ul>
<b>Reduce pesticides (4)</b>	<ul style="list-style-type: none"> <li>○ Pesticides being used by house owners and educating them about natural ways to deal with pests</li> <li>○ Ask the city to stop using pesticides in parks. Coordinate with neighborhoods so that residents know when street sweeper will be sweeping. This can help with storm water debris removal.</li> <li>○ Ban use of most harmful pesticides.</li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>Outlaw lawn fertilizers and pesticides.</i></li> </ul>
<b>More education (4)</b>	<ul style="list-style-type: none"> <li>○ <i>Since the Cross Kirkland Corridor intersects multiple waterways, it could be a great place to raise public awareness of water habitats &amp; health via permanent infographic installations. For example, Bridle Trails State Park has a self-guided tour on the Trillium Trail about the lifecycle of healthy forests. Maybe something similar to that on the CKC?</i></li> <li>○ <i>Use social influence to improve participation (see Robert Cialdini's work)</i></li> <li>○ <i>From oil to soap to dog poop, many homeowners have no reason to prevent harm to our water and watersheds currently.</i></li> <li>○ <i>Better signage of protected areas.</i></li> </ul>
<b>Pollution enforcement (4)</b>	<ul style="list-style-type: none"> <li>○ <i>Correction/phone calls if reported washing cars or emptying any chemicals into drain. Ban use of most harmful pesticides.</i></li> <li>○ <i>Allowing car washing just using water opens the door to wash car with soap. No car washing in areas where the storm drains can drain off into the creeks.</i></li> <li>○ <i>Address spills and complaints promptly with contact to the reporting party. Enforcible storm water protection codes that are clearly written and shared with the public</i></li> <li>○ <i>Make businesses and industry physically and fiscally responsible for these behaviors and modifications, including and especially, microplastic filtration.</i></li> </ul>
<b>Reduce pet waste (3)</b>	<ul style="list-style-type: none"> <li>○ <i>Off-leash dogs and irresponsible owners who don't control or clean up after them. They are a major problem that Kirkland itself has said contributes to dirty water and harms citizens' enjoyment of Kirkland's parks.</i></li> <li>○ <i>Stop pet poo</i></li> <li>○ <i>Keep dogs out of swimming areas- they pee and poo in the water.</i></li> </ul>
<b>More volunteers (2)</b>	<ul style="list-style-type: none"> <li>○ <i>Volunteer power!!</i></li> <li>○ <i>We can help volunteer to monitor the drain storms but do not put liability onto property owners.</i></li> </ul>
<b>Stop tree removal/clear cuts by development (2)</b>	<ul style="list-style-type: none"> <li>○ <i>New developments are clear cutting mature trees and vegetation - need to have better vegetation management.</i></li> <li>○ <i>We need to Regulate new construction in the area! It pains me to see whole hillsides bulldozed down and all trees removed to put up housing developments. The roots of trees not only help absorb toxic storm water runoff but prevent erosion. Trees also take in carbon dioxide and give off the oxygen that we need to breathe as well as provide shelter and food for wildlife. With our rising temperatures due to climate change, trees help to cool not only the air surrounding them but the trees near waterways help to cool the streams and waterways benefiting the salmon and other critters that live in or use those waterways!</i></li> </ul>

<p><b>All other (12)</b></p>	<ul style="list-style-type: none"> <li>○ <i>Ensure city and contact vehicles are properly maintained. One of the waste management trucks that drives down our street each week leaks and leaves a large streak of iridescent fluid that eventually washes into the storm sewers. When called, WM said that “all trucks are probably leaking something” and that their only motivation to fix the leaks would be if they were losing money.</i></li> <li>○ <i>Do not take away property rights of those privately owned properties that have wetlands on them. Allow them to be filled and built upon. If not, the city should buy the wetlands and buffer areas to adequately compensate the landowner.</i></li> <li>○ <i>The water quality in our creeks, lakes, and wetlands is just fine. This conclusion likely means that you will ignore this comment and dismiss this survey. The question presumes that the water quality needs to be improved. It would be more useful to have a survey asking people to rank existing creek and lake water quality on a scale from poor to excellent and ask separately about Lake Washington vs. creeks. The huge majority of people are really comfortable swimming in Lake Washington which says we must be doing lots of things right. Lots of kids wade in our creeks for fun and do just fine. The City needs to focus on other much more important issues since our surface water quality is really, really, good.</i></li> <li>○ <i>Park rangers are important. Physical presence is better than signage.</i></li> <li>○ <i>Advocate for proper funding, including raising taxes if necessary to maintain these assets to our community.</i></li> <li>○ <i>Thanks for using your sweeper trucks to clean drain covers in the Fall.</i></li> <li>○ <i>Revisit areas originally developed decades ago with inadequate storm retention and treatment capabilities. spend money on detailed studies to understand issues and cost estimates for fixes and prioritize after that. Many storm studies are very cursory</i></li> <li>○ <i>Work with local farmers and businesses on setting better practice goals with their land an water use and provide some kind of incentive or financial support to help resolve any leeching issues.</i></li> <li>○ <i>Keep and/or restore native plants along waterways.</i></li> <li>○ <i>I wonder if there has been investigation into permeable pavement. Applying centralized solution does not scale as well.</i></li> <li>○ <i>Please just maintain what we have and build on that.</i></li> <li>○ <i>Insure activities are cost effective</i></li> </ul>
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Please share any other actions you think the Storm and Surface Water Division should focus on to protect and enhance in-stream habitat conditions for fish and wildlife.

<p><b>More education/signage/awareness raising(8)</b></p>	<ul style="list-style-type: none"> <li>○ <i>Improve signage at creek areas such as those where kids are likely to play. Make sure visitors are aware of efforts to protect these habitats.</i></li> <li>○ <i>Have Zoom meetings with neighborhoods to talk about waterways in their neighborhoods, potential problems and what individuals can do, requesting volunteers from the neighborhoods to help with projects or stream-area surveys so that the Surface Water Division can have time to talk with property owners who need to change how they do things, including keeping culverts clear and properly directing water runoff.</i></li> <li>○ <i>Awareness for volunteer opportunities.</i></li> <li>○ <i>Educate the public about where streams are and why they are important. Maybe (carefully) make the streams more visible or approachable. I have the feeling that they are underfoot and in people's backyards and no one knows they are there.</i></li> <li>○ <i>Educating home owners on natural ways to manage pests</i></li> <li>○ <i>I think awareness to the general public is most important. Please don't resort to financial incentives, this sets the wrong message imho .</i></li> <li>○ <i>Programs in the schools- involve each school, giving a menu of choices (survey schools for ways they would like to participate) and make it meaningful to students</i></li> <li>○ <i>Educate people on the importance of this</i></li> </ul>
<p><b>Stop tree removal/clear cuts by development (6)</b></p>	<ul style="list-style-type: none"> <li>○ <i>It seems like all of these efforts are negated by the clear cutting of large lots for development. We can't stop development, how can we make sure new development doesn't negatively impact the habitat?</i></li> <li>○ <i>require developers restore habitats that they destroy on 2 to 1 basis. we need this to combat climate change.</i></li> <li>○ <i>Buy land to prevent developers from cutting hundreds of trees and scraping off topsoil.</i></li> <li>○ <i>Stop the rampant clear cutting associated with development</i></li> <li>○ <i>We need to stop clear cutting the small wooded areas that are left to build more multi million dollar homes.</i></li> <li>○ <i>buying land is the most important thing, because any land not bought by the city WILL be paved over. Our forests and streams pay that price.</i></li> </ul>
<p><b>Remove invasive plants (2)</b></p>	<ul style="list-style-type: none"> <li>○ <i>Reduce invasive species so that native plants are the predominant coverage</i></li> <li>○ <i>The Forbes Creek park bottom land restoration near the fire station was a waste of money. A serious effort to remove the invasive blackberry so that people could use more of the park would have been a</i></li> </ul>

	<p><i>better way to spend the money. Nature was doing a fine job of recovering the "restored" area and should have just been left to do what it naturally does.</i></p>
<b>All other (8)</b>	<ul style="list-style-type: none"> <li>○ <i>Protect what we have by understanding density activism has serious drawbacks. We have a solid public watershed system and basic storm drains, which are extremely important to our ecosystem. Properly maintain and protect it. IMO, the City tends not to put the work and money into maintenance. We need to make sure our water mains are also in optimal condition to prevent overwhelming surface water control.</i></li> <li>○ <i>There are several instances that I am aware of where sewer lines has drained into the storm system. Resources should be used to track sources of contamination and if found to be deliberate, should be heavily penalized.</i></li> <li>○ <i>In the age of rapid climate change, I have to wonder how effective things like habitat restoration in protecting species would be.</i></li> <li>○ <i>Again, make industries and companies (esp. electric plants) physically and fiscally responsible for costs, esp. microplastic filtration.</i></li> <li>○ <i>once the system works as it should, we can then focus on habitat conditions.</i></li> <li>○ <i>Balance between preservation and the value of the owner's land near the water. Not fair to penalize owners near waterways with new restrictions.</i></li> <li>○ <i>All the above actions should be implemented!</i></li> <li>○ <i>Again: beaver dams are great for improving fish habitat in the streams, but impede storm water flow. The city and state are unable to reach agreement on solutions that work relatively well for BOTH</i></li> </ul>

Please share any other actions you think the Storm and Surface Water Division should focus on to reduce flooding in our streets and neighborhoods.

<p><b>More education to clear storm drains (6)</b></p>	<ul style="list-style-type: none"> <li>○ <i>Before, during and after heavy rainfalls, send reminders out via email, news, social media for residents to clear storm drains of debris.</i></li> <li>○ <i>Increase public awareness to monitor and manage their own areas. If each homeowner kept their own area clear of debris during flood times we would have a significant reduction in flooding I believe. Pride of community area.</i></li> <li>○ <i>Are there regulations that require property owners to keep ditches and culverts free of debris, including tree branches, leaves, trash? If not, there should be. If so, figure out a way to inform the residents of Kirkland.</i></li> <li>○ <i>How about increasing the permeable area in our community??? Duh. How about actually having homeowners keep adjacent storm drains clear.</i></li> <li>○ <i>Encourage people to clear the storm drains in front of their homes during the leaf-falling season.</i></li> <li>○ <i>We should focus on alerting, awareness, and coping with flooding rather than mitigation</i></li> </ul>
<p><b>Incentivize developers, increase development requirements to increase yard space/reduce impervious area (6)</b></p>	<ul style="list-style-type: none"> <li>○ <i>Offer incentives to developers who are purchasing lots to increase yard space rather than the footprint of the floor area, so that less land is covered by construction.</i></li> <li>○ <i>With all of the building going on impervious surfaces are lost creating increased flooding. Development projects should be required to either install larger storage areas to reduce the sudden surge created by storms, or provide funding, through a fee, to help offset city infrastructure projects aimed at reducing storm water issues.</i></li> <li>○ <i>Require ALL property owners to deal with stormwater on site.</i></li> <li>○ <i>Many lots in Norkirk are being overbuilt - loss of trees and loss of unpaved/undeveloped land is accelerating. The people advocating for all of this massive density are working against you, and you guys should talk.</i></li> <li>○ <i>Focus on more surface water infiltration and underground detention to manage and control the volume and allow for slower discharge of runoff. I believe detention is a better solution than ponds for urban and suburban environments.</i></li> <li>○ <i>Ensure that developers and builders include sufficient stormwater diversion plans.</i></li> </ul>
<p><b>More street sweeping (4)</b></p>	<ul style="list-style-type: none"> <li>○ <i>Street sweeper is extremely infrequent and inconsistent. Also, alley ways with storm drains need sweeping, too.</i></li> <li>○ <i>People don't pickup leaves so I appreciate the street sweepers. I don't love the massive underground tanks all new developments are building.</i></li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>I'd see alerting is used in combination of sweeping. It makes more sense to sweep before a storm than regularly.</i></li> <li>○ <i>More complete, more consistent street sweeping. Avoid cleaning same areas multiple times while repeatedly missing others. Respond to notification of missed areas. Informing callers that, "Oh, I don't know. I think we got that area," or, "I'm sure they'll get there eventually," or "They're done for this time," is insufficient.</i></li> </ul>
<b>Increase pervious surface (3)</b>	<ul style="list-style-type: none"> <li>○ <i>Increase pervious surfaces throughout the city</i></li> <li>○ <i>How about increasing the permeable area in our community??? Duh. How about actually having homeowners keep adjacent storm drains clear.</i></li> <li>○ <i>Permeable pavement feels like a superior solution than to invest in replacing the drain system with more capacity.</i></li> </ul>
<b>Improve infrastructure (3)</b>	<ul style="list-style-type: none"> <li>○ <i>Changes to existing infrastructure will be very helpful. I can't tell you how many "drains" I see uphill from the water gathering places, or with grades built around them so they are higher than the surrounding infrastructure. It doesn't make sense for things to have been constructed this way. But infrastructure change needs to be done in a physically responsible way so as to NOT create more pollution or do more damage.</i></li> <li>○ <i>After we had our street repaved (108th St), the street surface *inclines up* to the drain, which prevents drainage and is a concern to me now. here is a photo album (<a href="https://photos.app.goo.gl/kMReCZ3RfyT5JPL59">https://photos.app.goo.gl/kMReCZ3RfyT5JPL59</a>) showing the problem and a link to the drain in question (<a href="https://goo.gl/maps/mu5vN4TM4GkdubSc6">https://goo.gl/maps/mu5vN4TM4GkdubSc6</a>).</i></li> <li>○ <i>Need to evaluate frequency of events to understand if there is value in infrastructure improvements</i></li> </ul>
<b>Stop tree removal/clear cuts by development (2)</b>	<ul style="list-style-type: none"> <li>○ <i>Many lots in Norkirk are being overbuilt - loss of trees and loss of unpaved/undeveloped land is accelerating. The people advocating for all of this massive density are working against you, and you guys should talk.</i></li> <li>○ <i>quit cutting down trees! stop building unless developers agree to give back on 2 to 1 basis</i></li> </ul>
<b>All other (6)</b>	<ul style="list-style-type: none"> <li>○ <i>Listen to residents in their neighborhood about where flooding comes from . They're living history .</i></li> <li>○ <i>I live in the last newly annexed part of Kirkland, Kingsgate, and I would like it if the City doesn't forget us. We donated the land for the Hazen Hill Park. There's a stream there.</i></li> <li>○ <i>SNOW REMOVAL. The city gets an F from us on snow removal. Especially compared to our border cities of Bellevue and Redmond. They will quickly have their roads cleared to the pavement until the Kirkland line, where they're covered in snow. It's beyond frustrating and really unacceptable given the population of the City. Melting snow is a large contributor to localized flooding.</i></li> <li>○ <i>I've been cut off by flooding under 405 at 116th multiple times</i></li> </ul>



	<ul style="list-style-type: none"><li>○ <i>There is no generally flooding problem in Kirkland. There are a few spots where bad road design and poor drainage causes problems and those should be addressed through normal maintenance. We don't need an expensive City-wide large scale flood control program. In some places, projects to increase accessibility have been poorly implemented and roads and walkways flood. Those need to be fixed and the City should no longer hire the contractors who designed and built the problems.</i></li><li>○ <i>With climate change it will continue to get worse</i></li></ul>
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Please share any other actions you think the Storm and Surface Water Division should focus on to ensure proper operation of all stormwater systems in Kirkland.

<p><b>Increase frequency of cleaning/maintenance (6)</b></p>	<ul style="list-style-type: none"> <li>○ <i>Today for the first time in almost a year I saw a vehicle out cleaning the drains here on 38th Ave in Houghton. I personally every fall even though I don't have to as I'm NOT a business clean the 4 drains along here but the one on the corner of 1w Blvd and 38th still floods</i></li> <li>○ <i>You could also trim back foliage clogging the gutters more than twice a year</i></li> <li>○ <i>Maintain infrastructure.</i></li> <li>○ <i>Clean stormwater pipes more frequently.</i></li> <li>○ <i>Install storm water systems on streets that don't have them. Make sure existing ditches and culverts are flowing correctly and not just acting as water retention areas</i></li> <li>○ <i>Conduct maintenance of rural roads along which the drainage systems traverse (example Finn Hill neighborhood streets in deterioration/pot holes).</i></li> </ul>
<p><b>Educate private property owners to do own maintenance (4)</b></p>	<ul style="list-style-type: none"> <li>○ <i>Private property owners need to better understand that their systems are private and they are responsible for that maintenance. They frequently expect the city to problem solve for them and do the work. That is a gift of public funds.</i></li> <li>○ <i>Remind people in the Fall, especially, to clear storm drain grills.</i></li> <li>○ <i>Hearing best practices on maintenance and use of stormwater systems on private property will provide a educated voice to community.</i></li> <li>○ <i>If private systems taken together are larger than the size of the public system, then I change my opinion about the importance of the need to provide technical support to private owners to "very" important. Are inspections done on a generally-accepted best practices schedule? Is the frequency with which they are done presently sufficient to find problems early? If yes, then my opinion of the importance of increasing their tempo is that it is less-than moderately important.</i></li> </ul>
<p><b>More frequent maintenance at high problem areas (3)</b></p>	<ul style="list-style-type: none"> <li>○ <i>I have to believe that the city follows the mandated inspections and cleaning as laid out by the NPDES. Through the data gained from the inspections, high problem areas should be monitored more frequently. Also the city should identify where each connected drain basin system outfalls and focus on these end of system basins as this is the last stop before the storm water interacts with nature.</i></li> <li>○ <i>Concentrate on vulnerable areas</i></li> <li>○ <i>Inspection should have prioritization based on risk considering contributing factors like age, mass of vegetation and leaves, and capacity utilization. My condo's storm water needs cleaned annually otherwise flooding occurs because its at or near capacity and we're on a hill with leaves and dirt washing into our system. Without awareness of the issue we'd flood once every year or two.</i></li> </ul>

<b>Unaware if there are issues (2)</b>	<ul style="list-style-type: none"> <li>○ <i>How is a layperson supposed to know which of these is most important?</i></li> <li>○ <i>I'm not aware of problems with our stormwater systems. Is that a big challenge for Kirkland right now?</i></li> </ul>
<b>Install new infrastructure (2)</b>	<ul style="list-style-type: none"> <li>○ <i>Use a level on the road to determine where to put storm drains . Listen to the co. who are hired to place these drains. They do this every day .</i></li> <li>○ <i>Install storm water systems on streets that don't have them. Make sure existing ditches and culverts are flowing correctly and not just acting as water retention areas</i></li> </ul>
<b>All others (8)</b>	<ul style="list-style-type: none"> <li>○ <i>There is no widespread flooding problem in Kirkland. The City does not need to get more involved in private property. Cleaning storm drains on an as-needed basis works fine. The slurry-seal project in our neighborhood caused drainage problems on nearly-level streets where the applied slurry blocks water trying to flow into the storm drains. But we're managing with the persistent puddles and we constantly clean the pine needles and leaves out of the gutter to try to keep the road clear. It's too bad that the City hired a poor contractor to do the slurry-seal project.</i></li> <li>○ <i>Do a better job of educating the public about what happens when unfiltered street runoff or driveway or parking lot runoff goes into storm drains that empty into streams.</i></li> <li>○ <i>developers need to fix this stuff if they want to keep building and ripping up trees</i></li> <li>○ <i>Attract new &amp; younger people to this profession by creating a paid apprenticeship program that will incentivize them to make this division their career.</i></li> <li>○ <i>no point for any of this since the city is making builders basically do it all for them anyways. We built two homes and had to bring in 400 feet of fresh pipe to do the cities job for them on our bill.</i></li> <li>○ <i>Infrastructure debt is a major issue, best to stay ahead of it.</i></li> <li>○ <i>It rains a lot here and we need to ensure proper operations first and foremost. If not then significant issues can develop very very quickly that can be catastrophic.</i></li> <li>○ <i>Obviously you have to maintain the infrastructure, much of it inherited from King County (who did not maintain it well.). I'm glad to see those big vac trucks.</i></li> </ul>

**Is there anything else you would like the City to consider as we develop the Surface Water Master Plan?**

<p><b>More education (12)</b></p>	<ul style="list-style-type: none"> <li>○ <i>There needs to be a public campaign to increase street pollution awareness.</i></li> <li>○ <i>Renew, refurbish, or replace the bagging by storm drains about how it flows directly to the lake. Make them flashier or more personal. Maybe even small signs near some drains with educational information any how runoff flows directly into our waterways?</i></li> <li>○ <i>Work with property owners to find green ways to improve and filter storm drains. This will require a helping hand from the city. don't go in with a heavy hand and pick up the majority of cost.</i></li> <li>○ <i>Education, education, education.</i></li> <li>○ <i>Please consider outreach to the community through community events, could be at library or through neighborhood associations. Connect with LWHS and Juanita HS to communicate issues with local teens. Maybe there's a volunteer opportunity for local teenage high school students in some aspect of goals for actions related to the Surface Water Master Plan.</i></li> <li>○ <i>More educational opportunities for property owners to understand how drainage works on their property and surrounding neighborhood.</i></li> <li>○ <i>Give us information about what regulations now exist. You can post this information on this website, but send out some kind of messaging using more than one way , e.g., email, city webpage to Kirkland residents to let them know where to find the information.</i></li> <li>○ <i>Tell us what the main sources of pollution are in Kirkland. Cars? Businesses? Toilets? Id like to hear more.</i></li> <li>○ <i>Do rain barrels help much (e.g. by retaining water during storms, so it can be used not just later, but also instead of adding more water via garden hoses)? If so, a public awareness campaign and/or incentives for private adoption might be useful.</i></li> <li>○ <i>Educate people on carbon footprint to include driving less.</i></li> <li>○ <i>I don't know if people dumping chemicals down drains is a major issue or not, but providing knowledge and easy access to safe dumping areas (transfer facility, etc.) would certainly help. Increasing convenience to do things right makes it easier to do it.</i></li> <li>○ <i>Please tell us all how we can keep our water clean!</i></li> </ul>
<p><b>More development restrictions (10)</b></p>	<ul style="list-style-type: none"> <li>○ <i>The City is allowing new development to substantially change the ecology of our neighborhoods. Please make an effort to halt this and force new development to protect our waterways and natural habitats.</i></li> <li>○ <i>please implement rules on new developments to increase green space and porous surfaces. Please.</i></li> <li>○ <i>Take a hard look at places that have huge erosion or washout potential in times of large rainfall/ flooding, and please limit building on questionable property</i></li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>All properties should have to deal with their own storm water. If lot coverage is so high that a property needs to tie into the storm water system, that property should pay a maintenance fee just as we do for sewer and trash. Tax dollars should pay for storm water management on public property.</i></li> <li>○ <i>Alluvial slope building restrictions</i></li> <li>○ <i>get all developers to give back habitat, etc as part of permitting process</i></li> <li>○ <i>I think amending the municipal code for more stringent requirements for new construction projects (or renovation projects that impact hardscape/paving/surface run-off) in requiring onsite storm water treatment and onsite retention via low-impact development and green infrastructure practices is imperative. All new parking lots should have the requirements for bioswales/rain gardens/permeable paving/infiltration systems. This should go hand in hand with potentially amending local parking quantity requirements -- it is better to have fewer parking spaces and encourage alternate means of transportation and recapture that space for bioswales and other means of storm water treatment and retention.</i></li> <li>○ <i>We need less impervious surface, less concrete, asphalt, ect. After all the development that has been going on we have too much of all of it.</i></li> <li>○ <i>Before new houses or buildings are built, make sure there are good plans to manage surface runoff and stormwater. Oversee building projects to ensure proper management.</i></li> <li>○ <i>stop or pause residential and commercial development</i></li> </ul>
<b>Compliments/Kudos (8)</b>	<ul style="list-style-type: none"> <li>○ <i>Make sure there is funds to continue and enhance future environmental endeavors by the City. Keep up and stay ahead. Prevention is the best measure. Kirkland's done a great job!</i></li> <li>○ <i>Thank-you for asking and keeping our rivers and waterways clean for recreational use, it's why we live in Kirkland.</i></li> <li>○ <i>I love Kirkland. Water is part of our culture be it falling from the sky or running along the earth. Part of what makes Kirkland a lovely place to live is our parks, greenways, and the value we put on nature. I've lived in Kirkland since 1999. Thanks!</i></li> <li>○ <i>The Public Works Department is already doing great work for our City. Thanks for the opportunity to influence the fine tuning.</i></li> <li>○ <i>thank you all for your hard work!</i></li> <li>○ <i>City is doing well, just "focus on the knitting" and try not to do more than the organization is capable of doing !</i></li> <li>○ <i>Thank you for keeping the community in the loop.</i></li> <li>○ <i>Just glad that you care.</i></li> </ul>
<b>Don't increase cost to residents (4)</b>	<ul style="list-style-type: none"> <li>○ <i>Do not make homeowners fiscally responsible for these corrections. Find funding sources at the higher income levels of companies and corporations.</i></li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>The cost of the projects!</i></li> <li>○ <i>Yes do not raise property taxes to do this work. You should be more efficient budgeting. We are starting to get taxed too much. What is the city doing with all of the increases in revenue from property taxes. The survey seems to be leading people on in order for you to raise taxes.</i></li> <li>○ <i>costs</i></li> </ul>
<b>More pollution enforcement (4)</b>	<ul style="list-style-type: none"> <li>○ <i>Monitor residents who claim their property as “wetlands” . And who don’t abide by those rules. IE. : blatant wetlands abuse by their animals , help, children etc.</i></li> <li>○ <i>Make it easier to file anonymous complaints against neighbors who continue to knowingly pour or wash hazardous materials down the storm drains.</i></li> <li>○ <i>Nail the polluters. I would like to see those who intentionally pollute this system to be slapped with meaningful fines, especially for repeated violations. I would also like the issue of people living in vehicles on the streets to be taken seriously and subject to the same penalties. They should not be allowed to dump their waste or urinate and defecate where they please.</i></li> <li>○ <i>stop leaking sewage into the corridor trail ditch, we all know it's happening, and stop letting it go into lake washington. Never let public transportation buses use the corridor trail or that will put so many pollutants into our streams.</i></li> </ul>
<b>Protect open space/woodlands (3)</b>	<ul style="list-style-type: none"> <li>○ <i>please help protect our woodlands and our water. please purchase land for protection before it's all gone. please implement rules on new developments to increase green space and porous surfaces. Please.</i></li> <li>○ <i>Preserving our current urban forests and getting adjacent land owners to do planting/landscaping that supports wildlife and native plants.</i></li> <li>○ <i>If possible would a joint program with King County Conservation be a possibility. I saw an opportunity King County conversation to fund cleanup of buffers to creeks with the property contributing up to \$3000.</i></li> </ul>
<b>More GSI (3)</b>	<ul style="list-style-type: none"> <li>○ <i>Promote volunteer activities for planting storm water retention gardens</i></li> <li>○ <i>Address tire dust toxicity to coho salmon. Add more street runoff GSI that will reduce tire dust impact to our streams. This is critical to the health of salmon and the health of orcas. Be a leader in managing this pollutant source.</i></li> <li>○ <i>All new parking lots should have the requirements for bioswales/rain gardens/permeable paving/infiltration systems.</i></li> </ul>
<b>Reduce pet waste (2)</b>	<ul style="list-style-type: none"> <li>○ <i>Off-leash dogs and irresponsible owners who don't control or clean up after them. They are a major problem that Kirkland itself has said contributes to dirty water and harms citizens' enjoyment of Kirkland's parks.</i></li> <li>○ <i>Stop the poo flingers!</i></li> </ul>

<b>Safe swim areas (2)</b>	<ul style="list-style-type: none"> <li>○ <i>Making sure our beach areas are safe for children and adults to enjoy swimming, wading, playing, etc.</i></li> <li>○ <i>Keep the Canadian geese away from beach parks so the water will be cleaner for our children to swim</i></li> </ul>
<b>More volunteers (2)</b>	<ul style="list-style-type: none"> <li>○ <i>If there is a branch or projects that can accept volunteers to help clean the environment or contribute to preventing flooding and the like, myself and others would be interested in a monthly schedule of "events" with short summary of the work the will be performed. Huge plus of education can be wrapped into it like a summary of what we're doing and the expected results. Maybe public schools can rotate classes through a "field trip" to contribute and educate hands-on in the environment if safety can be assured.</i></li> <li>○ <i>Promote volunteer activities for planting storm water retention gardens</i></li> </ul>
<b>Stop tree removal/clear cuts by development (1)</b>	<ul style="list-style-type: none"> <li>○ <i>Please make sure you do whatever you can to improve and protect the habitat near salmon spawning streams! Also please retain the tree canopy in Kirkland! Don't allow any more clear cutting! This is critical to preserving our natural wildlife and human health! I appreciate the restrictions the city has mandated for property owners who want to cut down trees on their property! Thanks!</i></li> </ul>
<b>All other (14)</b>	<ul style="list-style-type: none"> <li>○ <i>Consider annexation areas in more detail that weren't addressed in previous plans</i></li> <li>○ <i>Balance between preservation and the value of the owner's land near the water. Not fair to penalize owners near waterways with new restrictions.</i></li> <li>○ <i>Kirkland has great quality surface water, creeks, and Lake Washington and no significant flooding problem. Don't mess with success. Leave it alone.</i></li> <li>○ <i>Make sure to prioritize a healthy relationship with Lake Washington. 'Cause that's where the run off from our street is going to end up!</i></li> <li>○ <i>We are fortunate to live in an area with abundant precipitation. Please forgive my lay person ignorance, but it seems to me long-term forecasting of rainfall conditions, to the extent possible, should inform all decision-making. Is it a sure thing rainfall will increase in our area? Or is it possible our area will, as the temperatures rise, receive less rainfall? Can we envision a time when we would want to store and access stormwater for other uses? I reckon not, but I don't have any data to answer my questions.</i></li> <li>○ <i>I live in an area of Kirkland where I don't see flooding and driving around in Kirkland I don't see it either. Totem Lake used to flood but that's been fixed.</i></li> <li>○ <i>Perhaps a ban on using fertilizers on properties near Lake Washington to reduce the algae and pollution in the lake</i></li> <li>○ <i>Consider how you can minimize NOISE! in achieving your goals. Especially heavy equipment noise, blowers, etc.</i></li> </ul>

	<ul style="list-style-type: none"> <li>○ <i>Kirkland is the “center of the universe” for “Google-ites” &amp; “Amazon-ables” ....And is attracting many others because of this technological phenomena ....Try “tapping” those resources ....You will undoubtedly find the “talent” we most desperately need sooner than later ....</i></li> <li>○ <i>There's a lot of balancing and planning built into these questions. Write the plan down and give the plan time to evolve and respond to data/feedback. Don't let some mean-spirited individual damage our environment just to save a few dollars. Shape the behavior of the private sector for greatest impact. Don't be excessively restricting with rules and overhead but sometimes you need to push forward even when someone's bellyaching. Find those common sense rules and enforce them confidently using data to justify your decisions. Be better at everything (innovating, decision making, enforcement, communication, consensus building) than the Seattle city council.</i></li> <li>○ <i>Institute or improve program for cleaning of porous pavement sidewalks to maintain drainage capacity and remove unsafe walking conditions (moss buildup).</i></li> <li>○ <i>We should work with nature, accept the consequences of our impact on natural water flows. This requires awareness and acceptance that flooding will sometimes occur.</i></li> <li>○ <i>We like hiking in the areas around the cross Kirkland cooridor, where you can often see culverts and other water management infrastructure. We like how some of the new improvements are pleasing to the eye and blend nicely into a nature environment.</i></li> <li>○ <i>The issue is how to manage growth versus quality of life. What are the things that attract people and business to Kirkland. What are the reasons why people and businesses leave.</i></li> </ul>
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