

REPORT

Chuckanut Bay Marsh Restoration Project: Follow-up Community Survey

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EXECUTIVE SUMMARY

The Chuckanut Village Marsh and beach in south Bellingham has undergone a substantial restoration. In 2010, prior to the project being finalized, the City of Bellingham engaged residents and users of the existing area in several public meetings and a survey. Once the restoration was completed and the area used, the survey was updated and distributed again in 2012 to a broader range of area residents to get feedback on the project. All together, the 2012 post-project survey included approximately 44 questions, including several opportunities for open-ended input. A total of 251 surveys were completed.

Restoration of the Chuckanut Village Marsh was designed to enhance the area's ability to provide pocket estuary functions, including improving water quality and providing habitat for newly hatched salmon migrating from nearby Chuckanut Creek. The project involved:

- Replacing an undersized culvert with a much larger box culvert to increase the tidal exchange between the marsh and the bay
- Creating an ADA accessible path to the shoreline from the end of Fairhaven Ave.
- Re-establishing a native salt marsh buffer along the publicly owned sections of the shoreline
- Protecting native vegetation and habitat elements by restricting vehicle access to sections of the shoreline and intertidal zones
- Relocating parking away from the shoreline
- Educating the public about the importance of marine nearshore environments, with the end goal of producing behavioral change that promotes a healthy nearshore habitat.

FINDINGS

Just under half (46%) of the respondents had been to the Chuckanut Village Marsh and beach area in the past year. This group identified litter, dog waste and illegal or improper parking as the most common problems, though few believed them to be *major problems*. Almost half (48%) of respondents knew about the salt marsh restoration, and the large majority said that area fishing and shell fishing had improved (66%) and that unwanted behaviors and questionable uses of the beach had been reduced (81%).

A key concern prior to the restoration was that changes would reduce parking for people using the beach and living in the neighborhood. According to the post-project survey,

over half of respondents who were aware of the project (59%) noted at least *a little* reduction parking for residents (28% of all respondents). A higher proportion noted reduced parking for kayakers -- 76% of those familiar with the project (36% of all respondents).

Overall, perceptions of the project were very positive, especially with regard to improved habitat and general aesthetics.

Environmental behaviors

Opportunities to improve water quality in the Chuckanut Bay area remain. With that in mind, the city also surveyed residents about environmental behaviors that could impact water quality. Among the findings:

- 29% of dog owners pick up their pet's waste from their yard daily
- 63% of residents with septic systems have had the system inspected within the past year
- 62% of those who washed their cars at home last year did so on pavement *every time*
- 34% applied chemical bug or weed killers in their yards at least once. A similar portion applied chemical fertilizers on their lawns.
- 42% had added native plants and 34% removed non-native plants. 16% removed non-native plants and then replaced them with native plants.
- 25% had reduced the size of their lawn in the past 3 years
- 88% never put toxics in the trash

Chuckanut Bay

Just 15% of respondents said that they were *not at all knowledgeable* about local wildlife and sensitivity of the Chuckanut Bay area. Among those with any knowledge, 34% said they had shared their knowledge with others in the past year. Most were not familiar with the Chuckanut Bay Pledge (70%) asking people to take steps like those mentioned in the Environmental Behaviors portion of the survey.

Most respondents (84%) had heard at least *a little* about educational and outreach events in 2012 that were developed to familiarize area residents with the salt marsh and the impacts of their behavior. Most who were aware of these events expressed some interest in seeing more events. When asked how they learned about the events, the most common response was the local newspaper, though direct mail was the most preferred method of contact. Respondents were also asked to identify trusted sources

of information about the area; the top mentions were Bellingham Parks and Recreation and RE Sources.

CONCLUSION

Overall the outcomes for the Chuckanut Village Marsh restoration project have been very positive. People reported a decrease in problems in the area and most expressed an appreciation for the improved quality of the area.

Although parking areas have been improved, many perceive that there was some lost capacity, either for the neighborhood or for kayakers. It is not clear from this research how much it has impinged upon their use of the park or conveniences in the neighborhood.

The salt marsh restoration piloted a new approach by the City of Bellingham to engage community members more fully prior to the finalization of plans and to engage them along the way. Although the initial pool of neighbors recruited into the plan was small (about 80 households), they tended to be the most prevalent users and in the end reported being well informed about the project, the bay and the events in the area.

There are some opportunities for further work in the area. Dog waste continues to be at least a minor problem at the site, and most dog owners are not picking up their dogs' waste at home on a daily basis (58% of dog owners). Car washing is prevalent on impermeable surfaces and occurs at a higher rate than in Puget Sound more broadly; the Puget Sound Partnership's 2012 study of area residents¹ found that only 10% of households washed their cars on pavement every time.

Replacing lawn with native plants or reducing lawn size is a relatively common activity, with 25% of respondents saying they had done so recently, some having reduced their lawns by half or more. These households would likely provide some examples of successful projects, which could inspire additional households to lose the lawn.

Reaching residents was fairly effective using conventional channels. The park area itself was a good channel for information, as was the Herald, direct mail, notices and signs. Respondents identified the Parks Department and RE Sources as two trustworthy sources of information which suggests some good sponsors for City messaging.

¹ Sound Behavior Index and Social Capital Index 2012 – Survey Report (www.psp.wa.gov)

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INTRODUCTION

The Chuckanut Village Marsh and beach in south Bellingham has undergone a substantial restoration. The project has restored a more natural flow pattern and function to one of Bellingham's few remaining salt marshes which provide robust and diverse habitat for plants and animals, and serve an important function in maintaining a healthy nearshore coastal environment.

Restoration of the Chuckanut Village Marsh was designed to enhance the area's ability to provide pocket estuary functions, including improving water quality and providing habitat for newly hatched salmon migrating from nearby Chuckanut Creek. The project involved:

- Replacing an undersized culvert with a much larger box culvert to increase the tidal exchange between the marsh and the bay
- Creating an ADA accessible path to the shoreline from the end of Fairhaven Ave.
- Re-establishing a native salt marsh buffer along the publicly owned sections of the shoreline
- Protecting native vegetation and habitat elements by restricting vehicle access to sections of the shoreline and intertidal zones
- Relocating parking away from the shoreline
- Educating the public about the importance of marine nearshore environments, with the end goal of producing behavioral change that promotes a healthy nearshore habitat.

In 2010, prior to the restoration project being finalized, the City of Bellingham engaged residents and users of the existing beach area in several public meetings, focus group research discussions and a survey. The purpose of the meetings and survey was to help the City raise people's awareness about the marsh, identify their needs and concerns about the restoration, and to plan for education and outreach efforts for a broader set of stakeholders in the area over the course of the restoration. Needs and concerns were discussed with the restoration team to incorporate what they could, given the engineering needs of the project and the several state and local laws that govern the area.

This winter (2012) the survey was updated and conducted with a broader range of area residents. As in 2010, this survey contained questions about site usage and current issues such as parking, pet clean up, and litter. Respondents were asked how much they knew about the salt marsh restoration project and to evaluate the impacts of the project on the park area. They were also asked about how much they knew about the Chuckanut Bay Pledge and recent City sponsored events held at Chuckanut Bay, their

interest in similar events in the future and the best way to publicize such events. Additionally, the survey included questions about environmental behaviors such as disposal of toxins and yard care practices.

The post-project survey included approximately 44 questions, including several opportunities for open-ended input. The surveys were sent out in the mail and there was also an online version available as an alternative. A total of 251 surveys were completed during December 2012.

This report presents the findings of the 2012 survey with comparisons to the 2010 survey where relevant. The report uses the convention of italicizing any verbatim response option from the survey in an effort to fully convey the voice of the residents' survey responses. A complete description of the research methods can be found in Appendix A. The distribution of responses can be found in Appendix B and the verbatim responses given to the open-ended questions can be found in Appendix C.

One note about place names in this report: The Chuckanut Village Marsh is not officially named as a park, but the public does have access to the beach area and visitors do engage in recreation activities on the site. The public views the area as a park. The survey adopted the convention of calling the area a "park" or "the park at Chuckanut Bay" to communicate with residents about the public access aspects of the marsh and beach. This report uses those terms to be consistent with the survey findings.

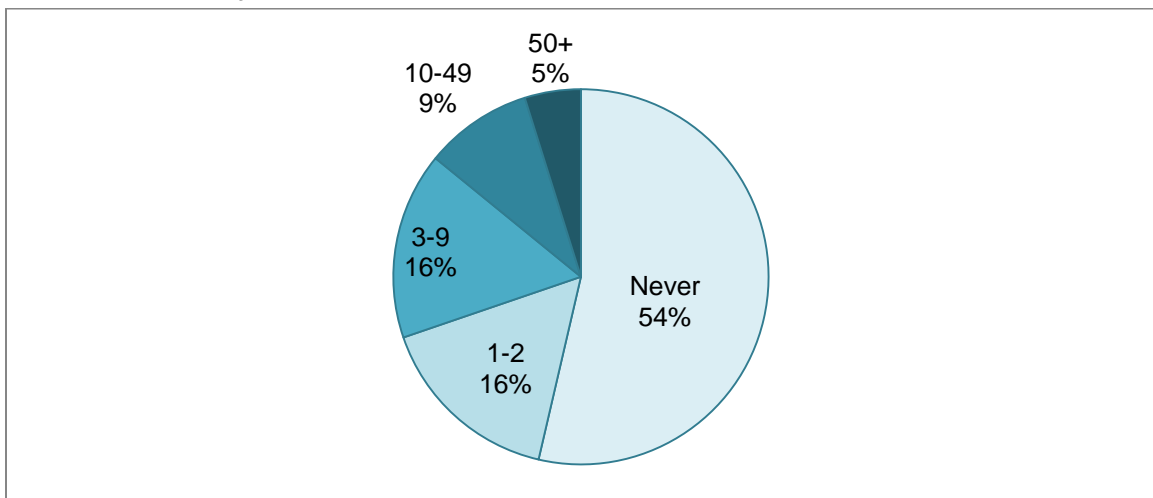
FINDINGS

This section presents how the respondents answered each item in the survey. The results are presented in graphical and written format. Survey questions that were the same or similar to questions that were included in the 2010 survey are identified; similarities and differences between the two points in time are discussed.

CHUCKANUT BAY USAGE

Just under half of respondents (46%) visited the park at Chuckanut Bay in the past year. Fourteen percent visited 10 or more times.

Figure 1. During all of this past year (2012), how many times did you visit the park at Chuckanut Bay?

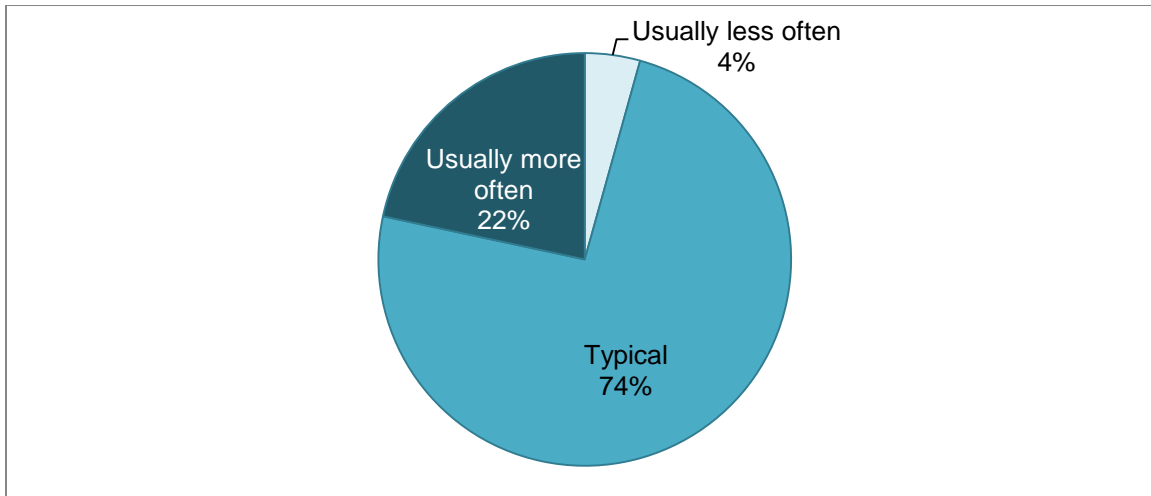


n=248

Just under one-third (30%) of those surveyed said that they live within ten minutes walking distance from the park. Not surprisingly, those who said that they lived within a ten minute walk were more likely to say that they visited the site in the past year (60% vs. 42% of those who live farther away).

Most respondents said that this last year was typical but just over one-fifth said that they usually go more often.

Figure 2. Was last year typical for you, or do you usually visit more or less often in a year?



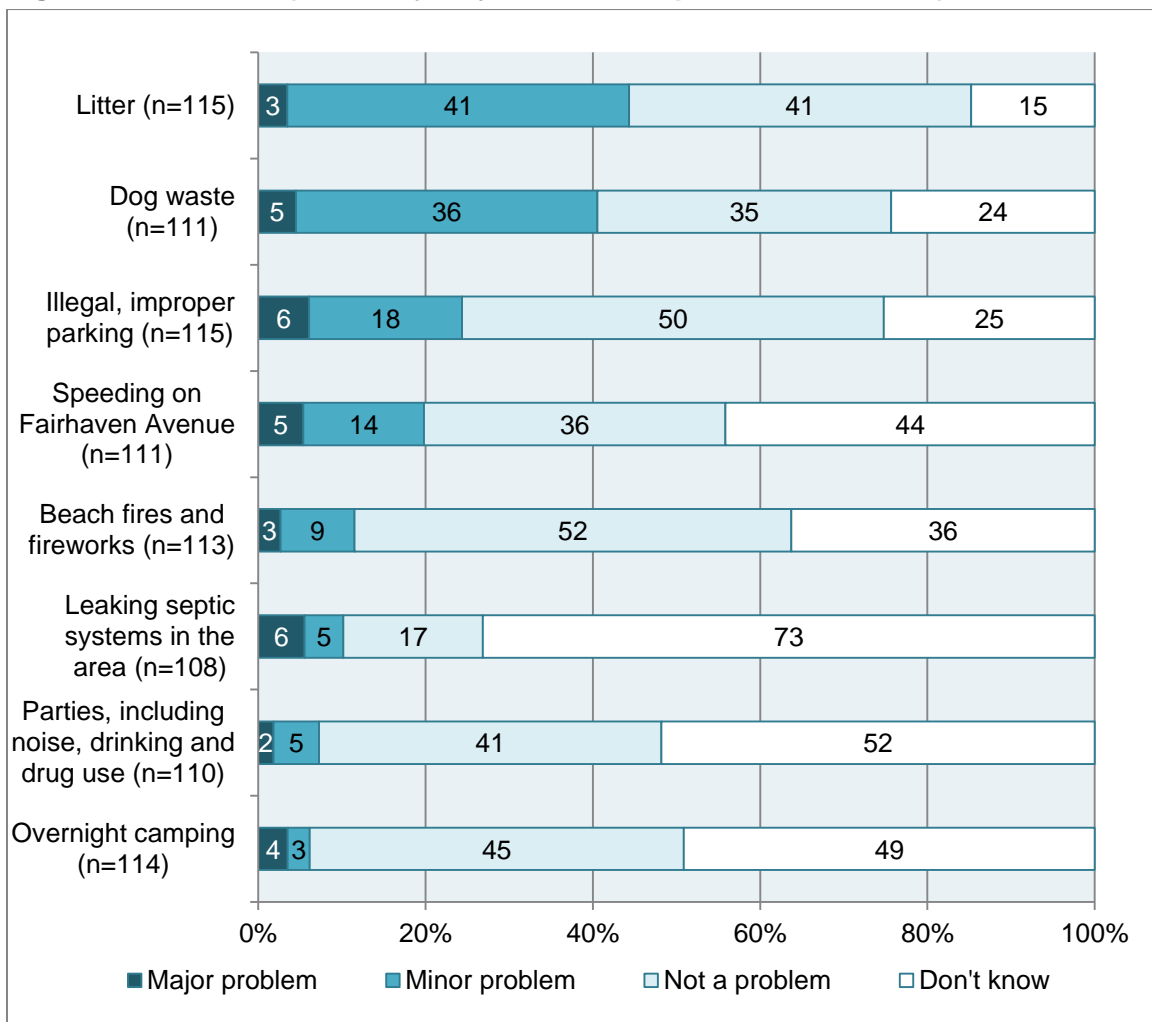
n=231

PARK PROBLEMS

Respondents who had visited the site in the past year were asked about various issues that had previously been identified by people familiar with the park. They were asked to identify if the issue was a major problem, a minor problem or not a problem in the area. They were instructed that an issue would be more of a problem if it happened often or if it had a very negative impact when it happened, even if it didn't happen often.

Figure 3 shows the issues sorted by the proportion who called the issue a problem (*major* or *minor*). Figure 3 shows that litter and dog waste were considered the biggest problems at the site. Litter was considered a problem by 44%, though most of those who considered it a problem called it a “minor” problem.

Figure 3. Problems (sorted by major and minor problem combined)



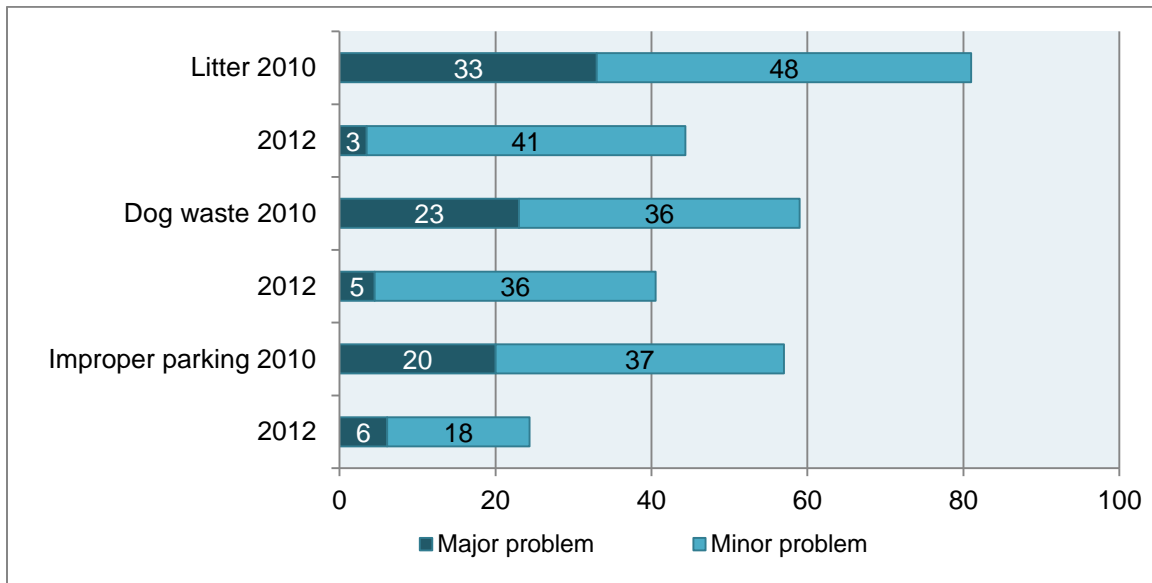
When asked to describe any other issues that are a major problem in the areas, 33 offered a comment. Comments were distinctive and varied. Five mentioned parking

(cars in undesignated spots, there isn't enough parking, parking spots are unclear, and that the disabled spot is not easily accessible to the beach). Other themes included signage and speeding. A full list of verbatim responses is included in Appendix C.

Perceived problems compared to 2010

In the 2010 survey, respondents also rated the same potential problems at the site. The order of severity was very similar to 2012; the top three problems in 2010 were still rated as the top three problems in 2012. Figure 4 shows the top three problem areas and the proportion who rated it as a problem (major and minor) in both 2010 and 2012. The proportion that identified the issue as a problem dropped significantly, but because the surveys were drawing from different samples the difference in scores is somewhat inconclusive. However the change in the proportion who called each of these issues a *major* problem was particularly striking—33% thought litter was a major problem in 2010 but only 3% said this in 2012.

Figure 4. How much would you say you know about the restoration of the salt marsh in the Chuckanut Bay park area?

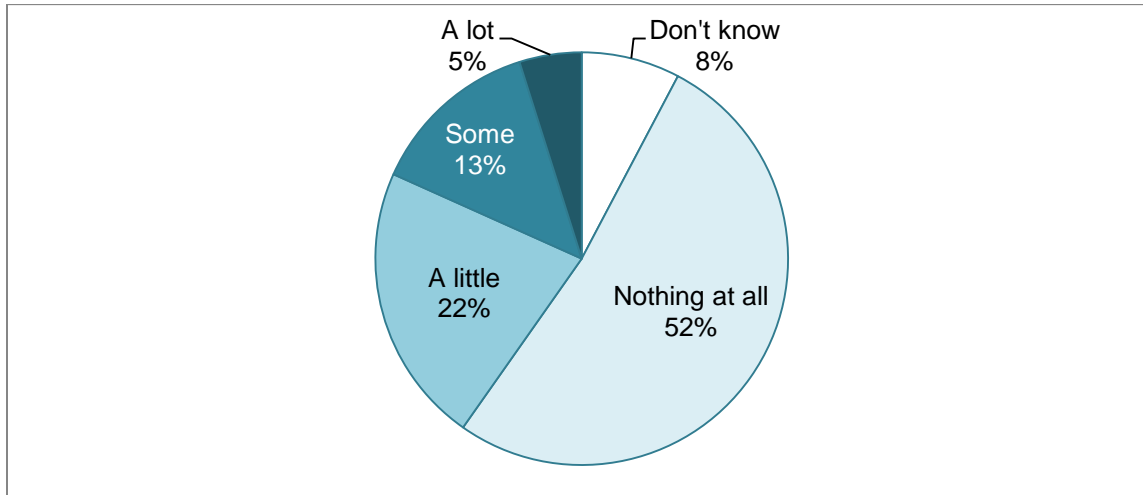


2010 n=64 to 65
 2012 n=111 to 115

RESTORATION PROJECT

Respondents were asked how much they knew about the restoration project. Sixty percent said they knew *nothing at all* or *don't know*.

Figure 5. How much would you say you know about the restoration of the salt marsh in the Chuckanut Bay park area?



n=246

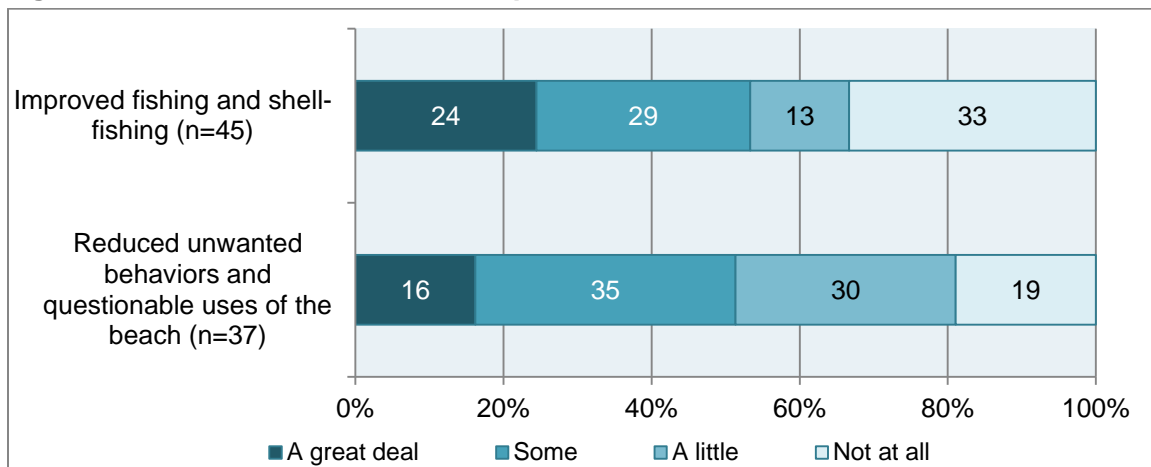
Respondents who have visited the park area of Chuckanut Bay in the past year were far more likely to have heard about the restoration project. Thirty-four percent of those who visited in the past year said they knew *some* or *a lot*, compared to only 8% of those who did not visit the site.

Restoration impacts

Respondents who said they knew at least *a little* about the restoration project were asked how much the area has changed as a result of the restoration. Specifically, they were asked how much the restoration improved fishing and shell-fishing and how much the project reduced questionable uses of the beach. Over half of respondents said that they *didn't know* how to assess the impact of the restoration.

Figure 6 shows the ratings of those who were able to offer an opinion. Nearly one-quarter (24%) said that the restoration improved fishing and shell-fishing *a great deal*; a slightly larger proportion (33%) said it did not improve *at all*. About half (51%) said the project reduced questionable uses of the beach *some* or *a great deal*.

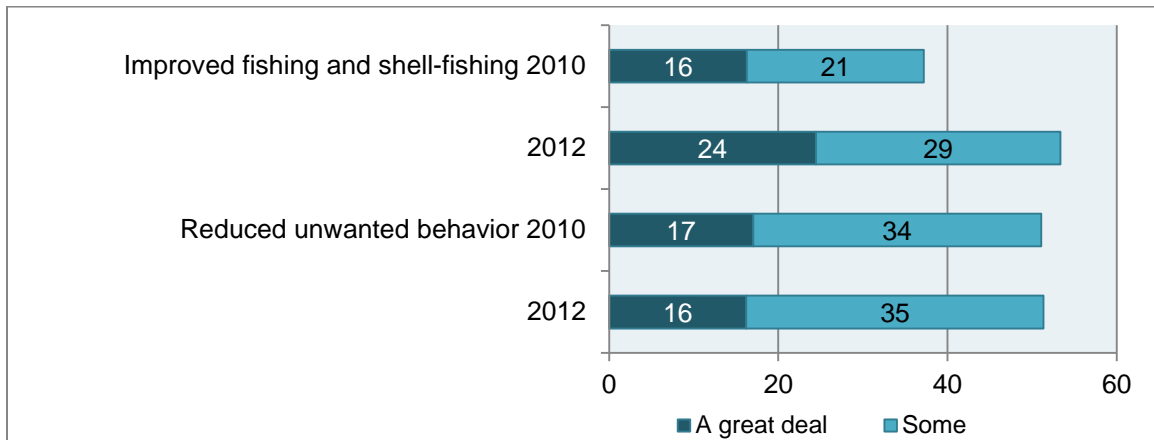
Figure 6. How much the area has improved as a result of the restoration



Respondents who had visited the area in the past year responded similarly to those who did not visit. However respondents who said that they live particularly close to the park area (within a 10 minute walk) were divided, with 40% saying it improved fishing *a great deal* and another 41% saying it didn't improve fishing in the area *at all*. Respondents who live slightly farther away were more likely to say that the restoration improved fishing *a little* or *some* (65%).

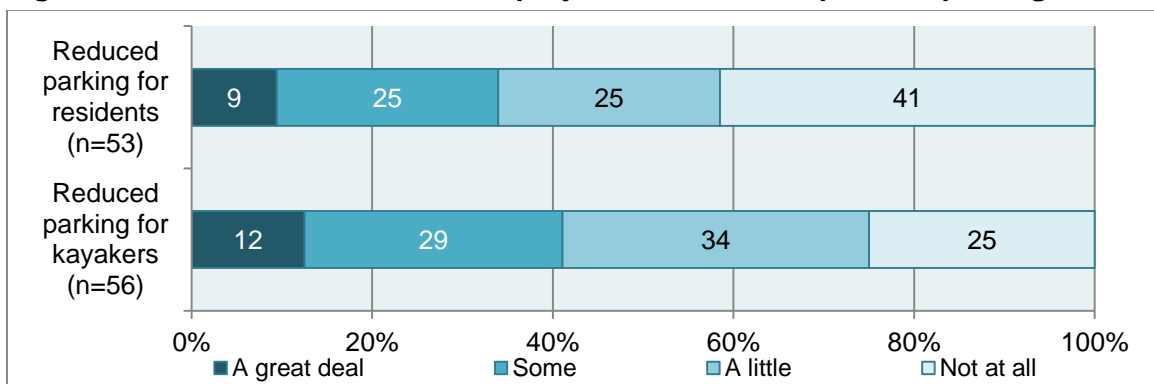
Figure 7 shows a comparison of these ratings to the expectations that were presented in the 2010 findings. In 2010, survey participants were asked how much they **expected** the area would be improved. Thirty-seven percent (37%) thought that fishing would improve *some* or *a great deal*, far lower than the 53% who said it actually did improve *some* or *a great deal*. Just over half (51%) expected that the project would reduce unwanted behaviors *some* or *a great deal*, exactly the same proportion who said it actually did improve to that degree.

Figure 7. 2010 expectations compared to 2012 perception of actual improvements



Respondents who said they knew at least *a little* about the restoration project were also asked how much the area has changed parking for kayakers and for residents. Figure 8 shows that about one-third (34%) said that the project reduced parking for residents *some* or *a great deal*. A slightly larger proportion (41%) said the project reduced parking for kayakers *some* or *a great deal*, though an equal portion (42%) said it did not reduce parking for kayakers at all.

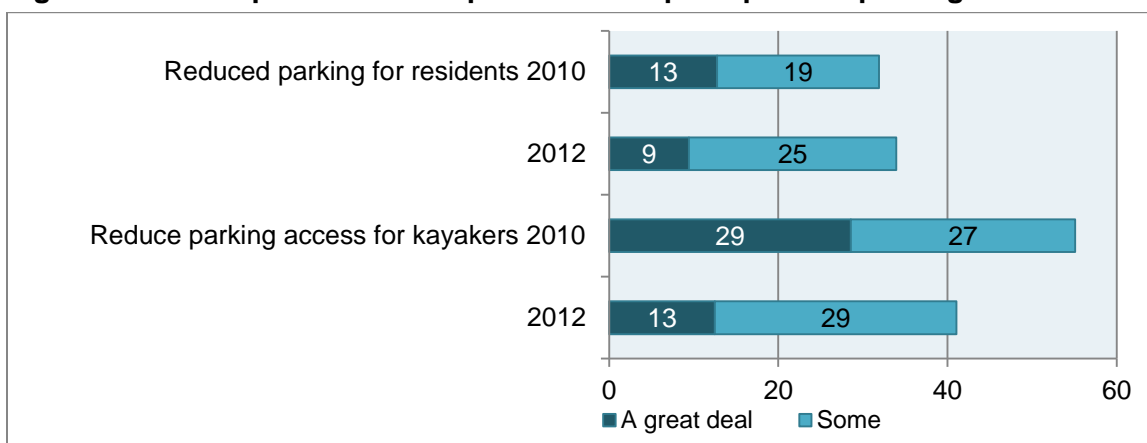
Figure 8. How much the restoration project has reduced space for parking



Respondents who had visited the park area in the past year answered the question similarly to those who had not. Likewise, residential proximity to the site didn't seem to have an impact on the ratings.

Nearly one-third (32%) of the 2010 respondents were concerned that the project would reduce parking for residents *some* or *a great deal*. A similar proportion in 2012 (34%) said that the project did reduce resident parking to that degree. Over half (56%) of 2010 participants thought it would reduce parking for kayakers *some* or *a great deal*; 42% felt that it did this in 2012. (See Figure 9)

Figure 9. 2010 expectations compared to 2012 perception of parking reductions



Respondents were asked to comment on any other beneficial changes they have seen in the area. Twenty-four respondents offered a comment. The majority of the comments mentioned improved habitat and general aesthetics.

“The vegetation effort has been very successful and I also enjoy the openness of the creek. It is visually very attractive.”

This respondent commented on the success across multiple dimensions:

“Since the restoration, illegal activities have diminished tremendously. Pot smoking seems to have disappeared, dog waste reduced, late noises and loud music in general are gone, debris on the beach reduced and great improvement to the beauty of the beach area.”

City public meeting participation

Nine percent (21 respondents) said that they participated in the City’s public meetings or discussions regarding the salt marsh restoration. Respondents who had been to the site in the past year were more likely to have participated in the meetings than those who did

not visit. When asked to comment, several mentioned appreciation for the communications about the improvements and public discussion opportunities.

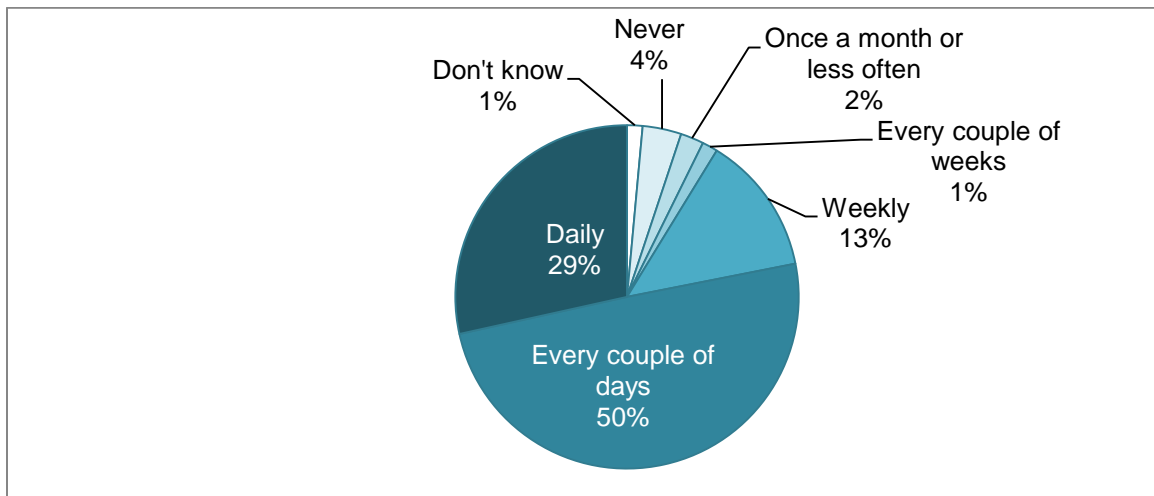
ENVIRONMENTAL BEHAVIORS

Respondents were asked about various environmental behaviors that could have an impact on environmental quality in the Chuckanut Bay area.

Pet waste

Just over a third (39%) of respondents said that they had a dog. These respondents were asked to identify how often pet waste was picked up from their yard and put in the trash. Figure 10 shows that over one-quarter (29%) said they picked it up *daily*; 20% said they picked it up *weekly* or less often.

Figure 10. How often is your pet’s waste from your yard picked up and put in the trash?

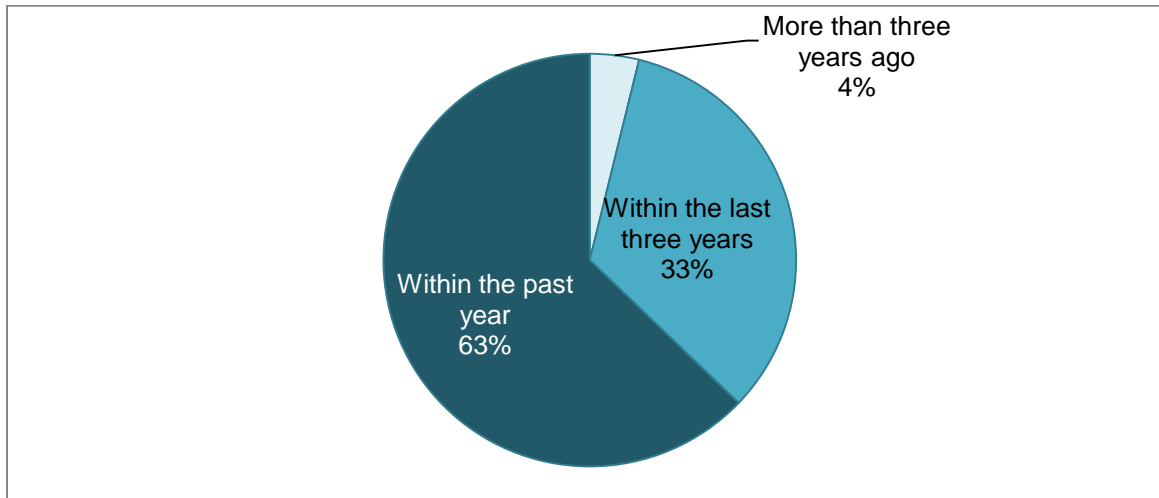


n=93

Septic

Nearly one-third (32%) of respondents said that they have a septic system on their property. Those respondents were asked when their system was last inspected. Figure 11 shows that nearly two-thirds said that they had their septic system inspected within the past year. Four percent said it was last inspected more than three years ago.

Figure 11. Last septic inspection

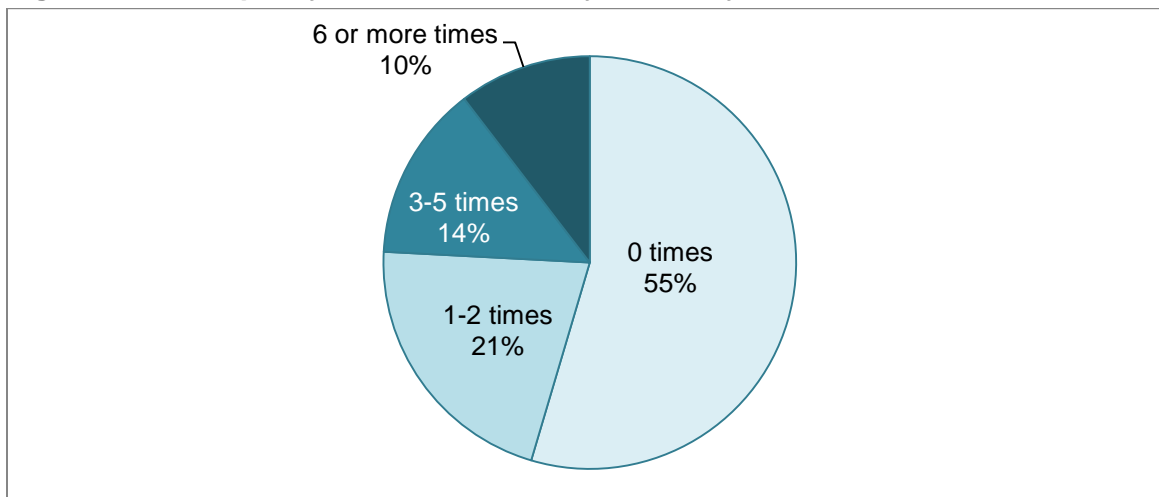


n=78

Car washing

Just over under half of the respondents (45%) have washed their car at home at least once in the past year; 10% said they have done it six or more times.

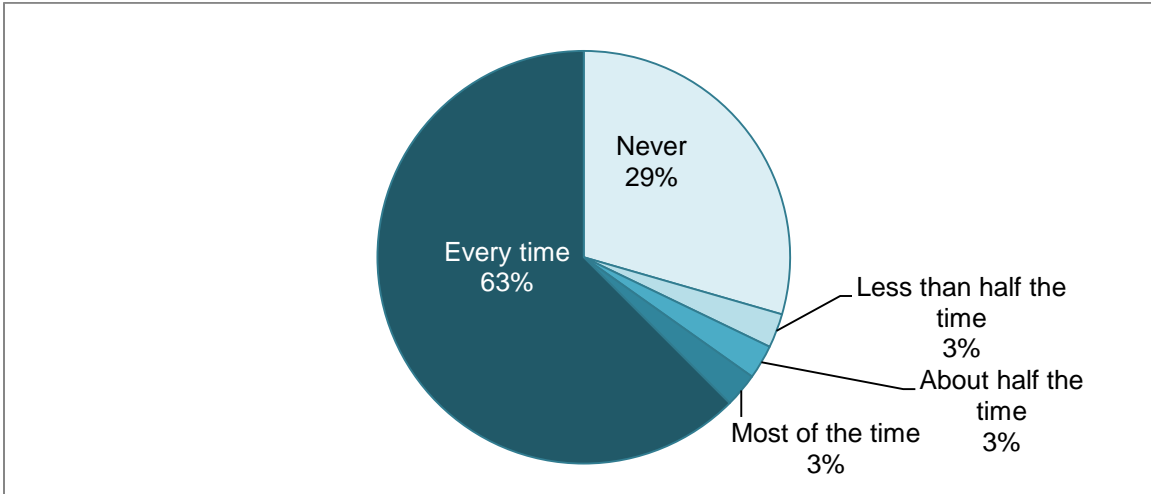
Figure 12. In the past year, how often did you wash your car at home, if at all?



n=240

Over half of those who washed their cars at home did so on an impervious surface *every time*. A little over one-quarter *never* did. Frequent home car washers did not wash their cars on pavement any more often than those who infrequently wash their cars at home.

Figure 13. In the past year, when you washed your car at home, how often was it parked on pavement while you washed it?



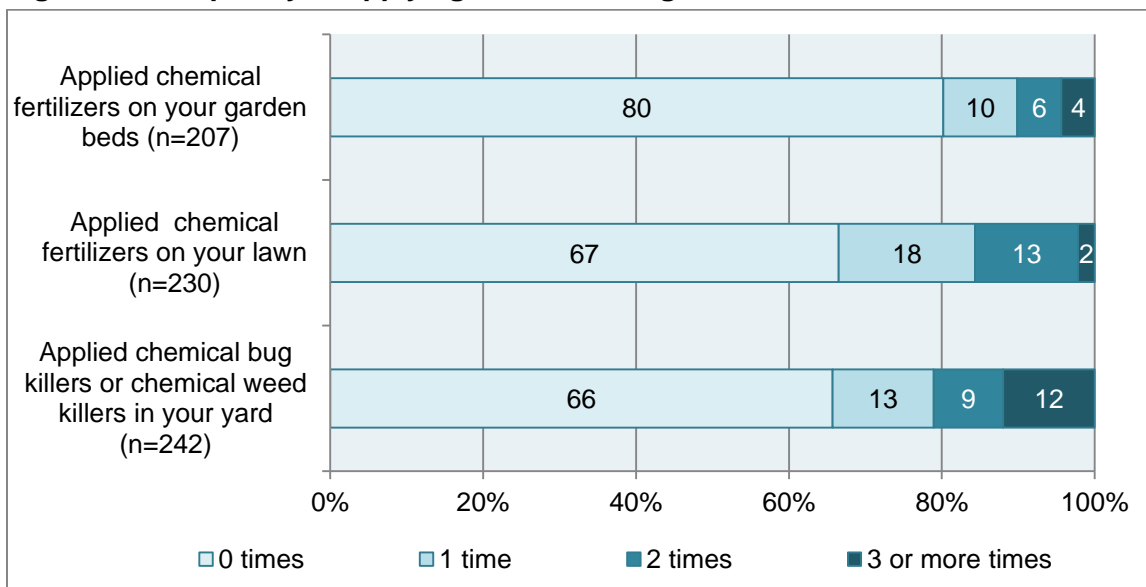
n=112

Although most people did not wash their cars at home, fully 523 car washings were reported last year by the 109 people who said they'd washed their cars at home. Of those, most were on pavement (estimated 334). If these respondents are representative of the area, we can estimate that 27% of households in the watershed are washing their cars at home, on pavement every time with a median number of home car washes per household of 3 (mean 4.8).

Yard and garden care

Respondents were also asked about the use of chemicals in their gardening, native plants, and reducing their lawn size. Figure 14 shows that the majority of respondents did not use chemicals regularly for garden care. Bug and weed killer was used with the greatest frequency; one-fifth (21%) did this two or more times.

Figure 14. Frequency of applying chemicals in garden care



Respondents were asked whether they have removed non-native plants, added native plants, or replaced non-native with native plants. Table 1 shows 62% have done at least one of these activities. Adding native plants was the most popular (42%). One-third (34%) have removed non-native plants.

Table 1. In the past three years, which of the following have you done?

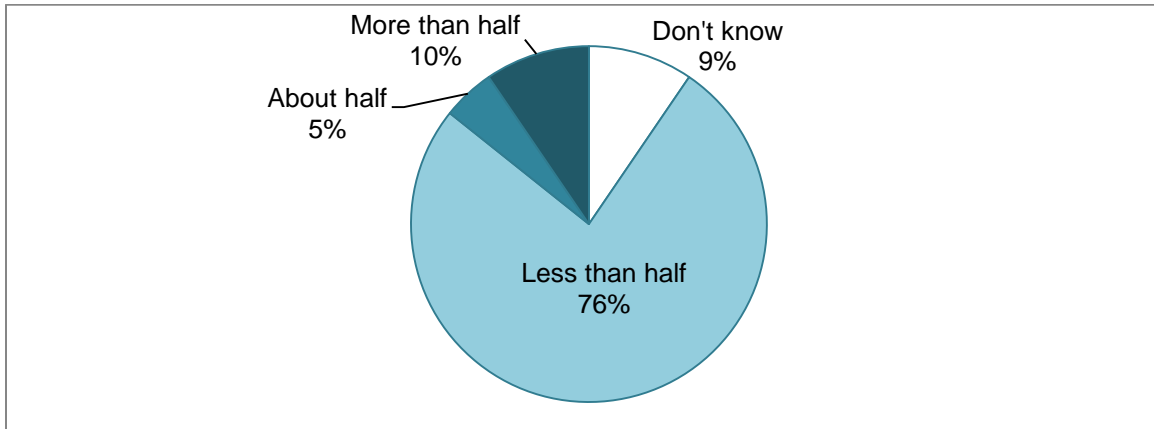
	<u>n</u>	<u>%</u>
Added native plants	105	42
Removed non-native plants	86	34
Replaced non-native with native plants	41	16
None of these	94	38

n=250; responses may total more than 100% due to multiple responses per case

Just over one-quarter said that they have reduced the size of their lawn in the past three years. Half of those respondents said that they added native plantings to the areas that used to be lawn (13% of overall survey sample).

Figure 15 includes those respondents who said that they did reduce the size of their lawn in the past three years. When asked for the size of the reduction, most (76%) said that the reduction less than half of the original yard. A small portion (15%) reduced their lawns by half or more.

Figure 15. Is the reduction in your lawn’s size more than half, about half or less than half of what the lawn used to be?

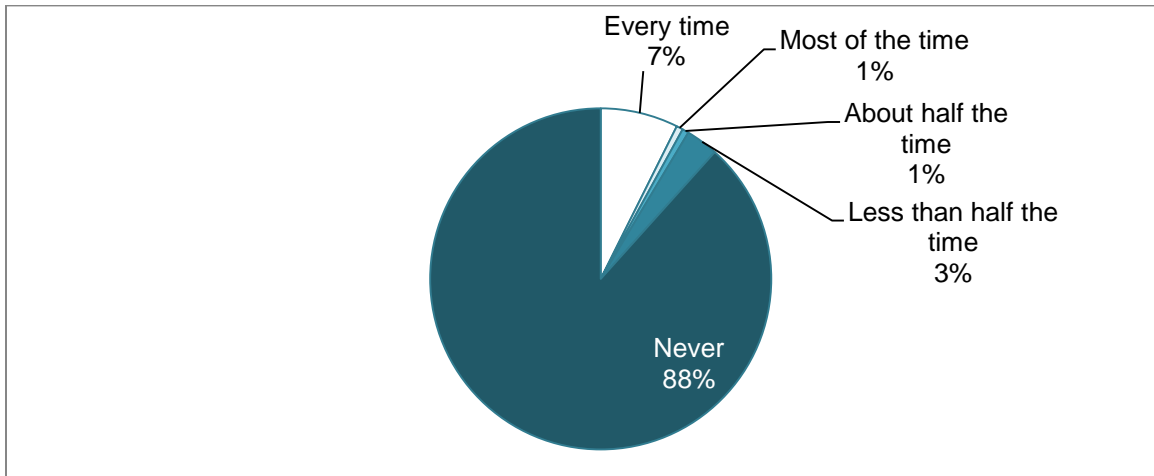


n=63

Disposal of toxics

Respondents were asked about how they dispose of toxics, including motor oil, antifreeze, paint and pesticides. The majority said they *never* threw these in the trash in the past year. Very few said they *did this occasionally*, and 7% said they do this every time.

Figure 16. In the past year, when you’ve had motor oil, antifreeze, liquid paint or pesticides to dispose of, how often did you put them in the trash?

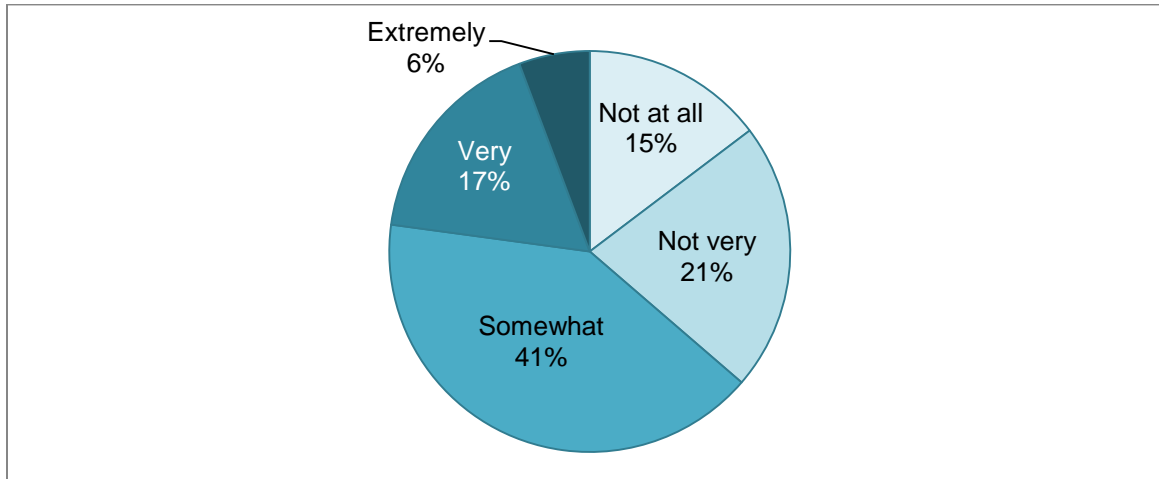


n=163

Knowledge of Chuckanut Bay wildlife

Respondents were asked to rate their own knowledge level regarding local wildlife and the sensitivity of the Chuckanut Bay area. Twenty-three percent said that they are *very* or *extremely knowledgeable*; on the other end of the spectrum 39% were *not very* or *not at all knowledgeable*.

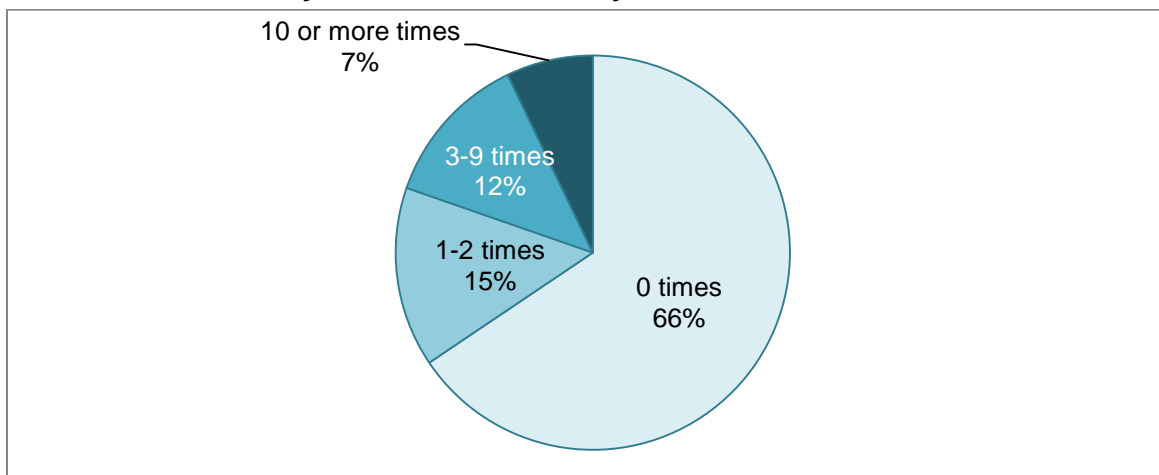
Figure 17. How knowledgeable are you about local wildlife and sensitivity of the Chuckanut Bay area?



n=245

Respondents who described themselves as remotely knowledgeable (even *not very*) were asked to estimate how often they have shared knowledge of wildlife and sensitivity of Chuckanut Bay area with others. One third (34%) said they shared their knowledge at least once.

Figure 18. In the past year, how often have you shared your knowledge of the local wildlife and sensitivity of the Chuckanut Bay area with others?

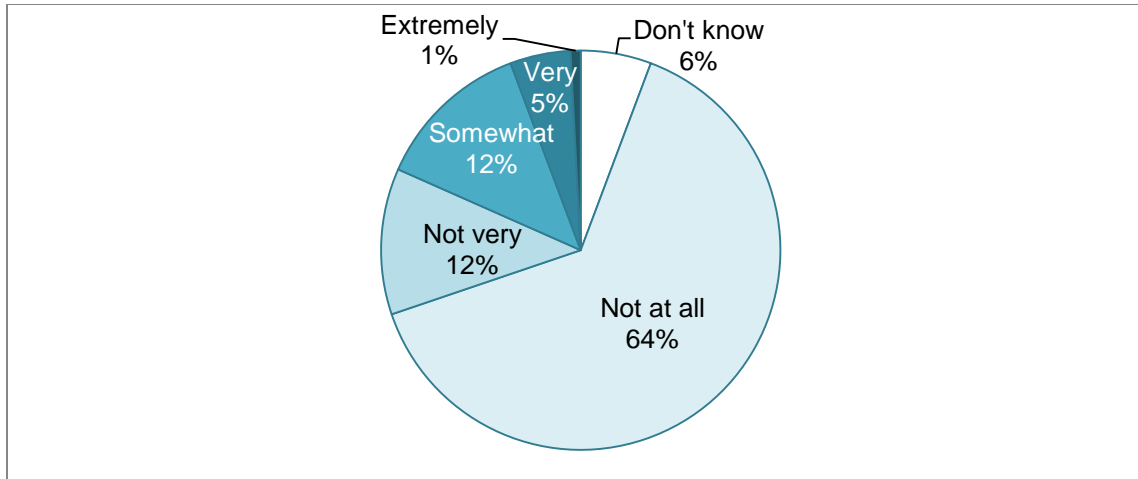


n=183

Familiarity with programming

Most respondents were not familiar with the Chuckanut Bay pledge (70%). Six percent were *very* or *extremely* familiar.

Figure 19. How familiar are you, if at all, with the Chuckanut Bay Pledge?

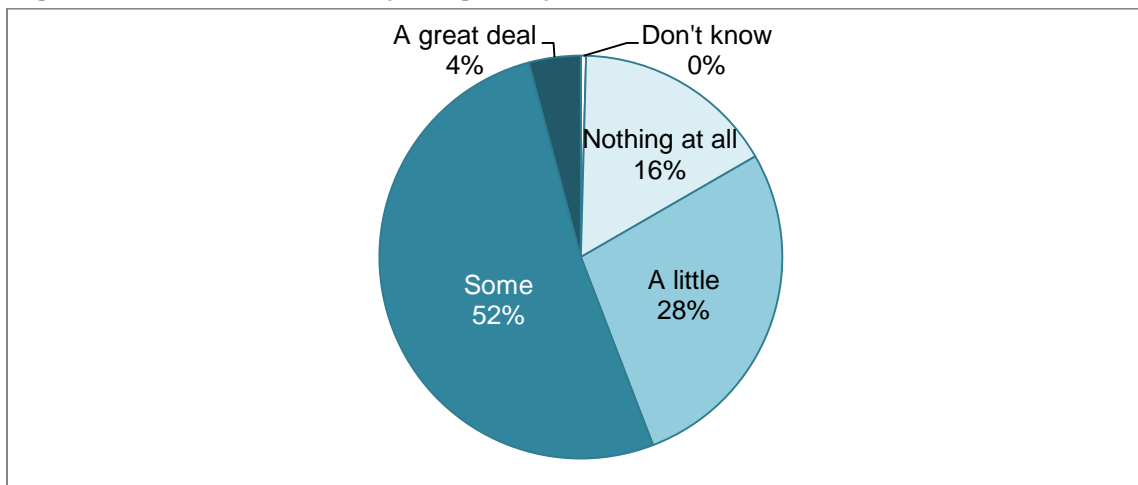


n=245

Respondents who had visited the Chuckanut Bay park area were more likely to be familiar with the pledge; 29% of those who visited this year were at least *somewhat familiar*, compared to 9% of those who did not visit in 2012. Likewise, respondents who live within a 10 minute walk were also more likely to be familiar with the pledge.

Respondents were told about four events that were held during the past six months at the Chuckanut Bay park area. A majority (85%) said that they had heard at least a little about these events.

Figure 20. How much, if anything, did you hear or see about these events?



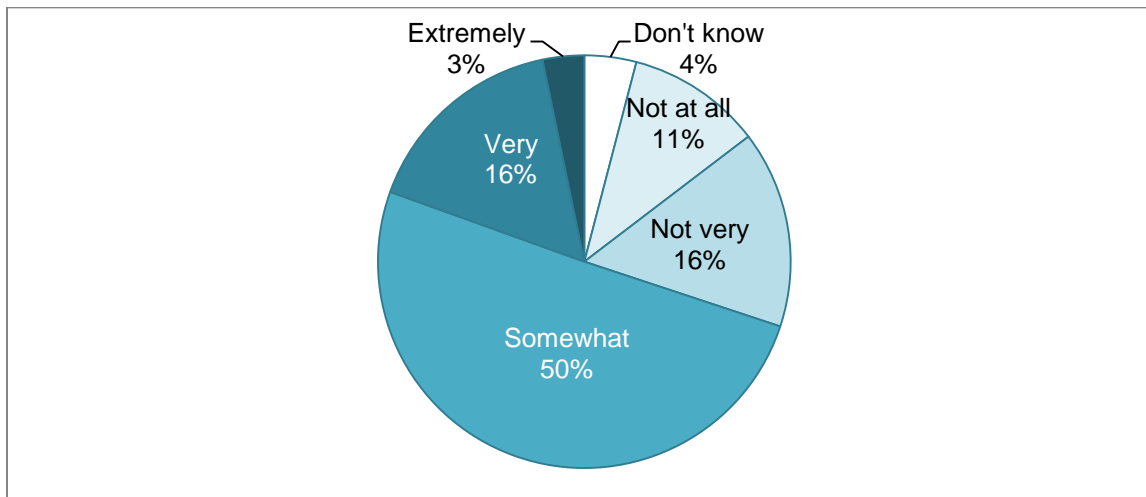
n=240

Respondents who had visited the park area in the past year and those who live within a 10 minute walk were more likely to have heard about the events.

Respondents who had heard about the events were asked to describe how they heard about the events. About one-third (33%) of those who had heard about the events said they heard about it in the local newspaper or “Bellingham Herald.” About one-quarter mentioned receiving something in the mail. Thirteen percent (13%) mentioned signage or a poster. Others mentioned hearing about the events through the Cascadia Weekly, a flier, email or internet, local groups like MRC or the neighborhood association, as well as general word of mouth. The complete list of verbatim responses is included in Appendix C.

Among those who had heard about the events, 69% said that they would be at least *somewhat* interested in seeing more events like this.

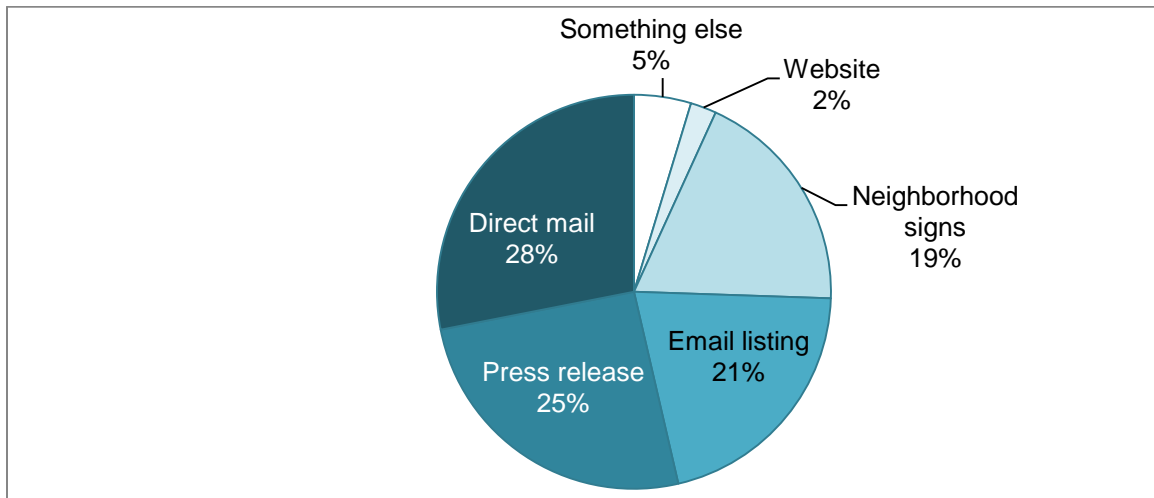
Figure 21. How interested would you be in seeing more events like these?



n=123

Respondents were asked what would be effective ways to reach them about these events in the future. Figure 22 shows that respondents were fairly evenly divided about the best approach, with the largest segment favoring direct mail (28%) followed by press release (25%).

Figure 22. What would be the most effective way to reach you about these events if there are more in the future?



n=123

When asked to identify a trusted source of information about the Chuckanut Bay area, the most frequent mention was Bellingham Parks and Recreation (41%) followed by ReSources (34%). Table 2 shows that 9% identified some “other” trusted source; Chuckanut Bay Community Association was the most frequent of these mentions.

Table 2. Which of the following organizations do you trust most to provide you with accurate information about the Chuckanut Bay area?

	<u>n</u>	<u>%</u>
Bellingham Parks & Recreation	103	41
RE Sources	84	34
City of Bellingham	68	27
WSU Extension	32	13
Shore Stewards	24	10
Others	22	9

n=250; responses may total more than 100% due to multiple responses per case

In the 2010 survey findings, Bellingham Parks and Recreation was also ranked as the highest trusted source for information about the Chuckanut Bay area (34%), followed by Shore Stewards (32%) which dropped substantially in 2012. Also of note, the City of Bellingham was considered a trusted source by only 15% of respondents in 2010, which

nearly doubled to 27% in the 2012 survey (which was distributed to a much larger pool of potential respondents).

CONCLUSION

Overall the outcomes for the Chuckanut Bay park area have been very positive. People reported a decrease in problems in the area and most expressed an appreciation for the improved quality of the area.

Although parking areas have been improved, many perceive that there was some lost capacity, either for the neighborhood or for kayakers. It is not clear from this research how much it has impinged upon their use of the park or conveniences in the neighborhood.

The salt marsh restoration piloted a new approach by the City of Bellingham to engage community members more fully prior to the finalization of plans and to engage them along the way. Although the initial pool of neighbors recruited into the plan was small (about 80 households), they tended to be the most prevalent users and in the end reported being well informed about the project, the bay and the events in the area.

There are some opportunities for further work in the area. Dog waste continues to be at least a minor problem at the park, and most dog owners are not picking up their dogs' waste at home on a daily basis (58% of dog owners). Car washing is prevalent on impermeable surfaces and occurs at a higher rate than in Puget Sound more broadly; the Puget Sound Partnership's 2012 study of area residents² found that only 10% of households washed their cars on pavement every time.

Replacing lawn with native plants or reducing lawn size is a relatively common activity, with 25% of respondents saying they had done so recently, some having reduced their lawns by half or more. These households would likely provide some examples of successful projects, which could inspire additional households to lose the lawn.

Reaching residents was fairly effective using conventional channels. The park itself was a good channel for information, as was the Herald, notices and signs. Experimenting with direct mail may help improve turnout since it was the most cited preferred means of contact. The Parks Department was considered trustworthy, as was RE Sources, which suggests some good sponsors for City messaging.

² Sound Behavior Index and Social Capital Index 2012 – Survey Report (www.psp.wa.gov)

APPENDIX A: RESEARCH METHODS AND DATA QUALITY

The survey was administered via postal mail and online. The printed version was mailed to 885 households on November 28, 2012, along with a letter of introduction from the City of Bellingham. The addresses were provided by the City of Bellingham. A sample of 885 was randomly chosen for the study.

To be as inclusive as possible, the letter provided the online website where additional household members could take the survey. A postpaid envelope was also provided. On December 6, 2012, a postcard was mailed to all 885 addresses, to thank them if they took the survey, or remind them to do so if they had not.

The online version was active from November 28 through December 19, 2012. 50 of the mailed surveys were returned due to address issues.

Two hundred forty one (241) surveys were returned by mail, and an additional ten were submitted online, for a total of 251 and a response rate of 30%.

APPENDIX B: FREQUENCY REPORT

Q1r During all of this past year (2012), how many times did you visit the park at Chuckanut Bay?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 times	133	53.0	53.6	53.6
	1-2 times	40	15.9	16.1	69.8
	3-9 times	40	15.9	16.1	85.9
	10-49 times	23	9.2	9.3	95.2
	50 or more times	12	4.8	4.8	100.0
	Total	248	98.8	100.0	
Missing	System	3	1.2		
Total		251	100.0		

q2 Was last year typical for you, or do you usually visit more or less often in a year?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Typical	171	68.1	74.0	74.0
	Usually I visit more often	50	19.9	21.6	95.7
	Usually I visit less often	10	4.0	4.3	100.0
	Total	231	92.0	100.0	
Missing	Don't know	13	5.2		
	System	7	2.8		
	Total	20	8.0		
Total		251	100.0		

q3 Do you live within 10 minutes walking distance of the beach area at Chuckanut Bay?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	77	30.7	30.9	30.9
	No	161	64.1	64.7	95.6
	Don't know	11	4.4	4.4	100.0
	Total	249	99.2	100.0	
Missing	System	2	.8		
Total		251	100.0		

q4 This year, litter was...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Major problem	4	1.6	3.5	3.5
	Minor problem	47	18.7	40.9	44.3
	Not a problem	47	18.7	40.9	85.2
	Don't know	17	6.8	14.8	100.0
	Total	115	45.8	100.0	
Missing	System	136	54.2		
Total		251	100.0		

q5 This year, illegal and improper parking was...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Major problem	7	2.8	6.1	6.1
	Minor problem	21	8.4	18.3	24.3
	Not a problem	58	23.1	50.4	74.8
	Don't know	29	11.6	25.2	100.0
	Total	115	45.8	100.0	
Missing	System	136	54.2		
Total		251	100.0		

q6 This year, beach fires and fireworks were...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Major problem	3	1.2	2.7	2.7
	Minor problem	10	4.0	8.8	11.5
	Not a problem	59	23.5	52.2	63.7
	Don't know	41	16.3	36.3	100.0
	Total	113	45.0	100.0	
Missing	System	138	55.0		
Total		251	100.0		

q7 This year, overnight camping was...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Major problem	4	1.6	3.5	3.5
	Minor problem	3	1.2	2.6	6.1
	Not a problem	51	20.3	44.7	50.9
	Don't know	56	22.3	49.1	100.0
	Total	114	45.4	100.0	
Missing	System	137	54.6		
Total		251	100.0		

q8 This year, dog waste was...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Major problem	5	2.0	4.5	4.5
	Minor problem	40	15.9	36.0	40.5
	Not a problem	39	15.5	35.1	75.7
	Don't know	27	10.8	24.3	100.0
	Total	111	44.2	100.0	
Missing	System	140	55.8		
Total		251	100.0		

q9 This year, parties, including noise, drinking and drug use were...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Major problem	2	.8	1.8	1.8
	Minor problem	6	2.4	5.5	7.3
	Not a problem	45	17.9	40.9	48.2
	Don't know	57	22.7	51.8	100.0
	Total	110	43.8	100.0	
Missing	System	141	56.2		
Total		251	100.0		

q10 This year, speeding on Fairhaven Avenue was...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Major problem	6	2.4	5.4	5.4
	Minor problem	16	6.4	14.4	19.8
	Not a problem	40	15.9	36.0	55.9
	Don't know	49	19.5	44.1	100.0
	Total	111	44.2	100.0	
Missing	System	140	55.8		
Total		251	100.0		

q11 This year, leaking septic systems in the area were...

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Major problem	6	2.4	5.6	5.6
	Minor problem	5	2.0	4.6	10.2
	Not a problem	18	7.2	16.7	26.9
	Don't know	79	31.5	73.1	100.0
	Total	108	43.0	100.0	
Missing	System	143	57.0		
Total		251	100.0		

q13 How much would you say you know about the restoration of the salt marsh in the Chuckanut Bay park area?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A lot	12	4.8	4.9	4.9
	Some	33	13.1	13.4	18.3
	A little	54	21.5	22.0	40.2
	Nothing at all	128	51.0	52.0	92.3
	Don't know	19	7.6	7.7	100.0
	Total	246	98.0	100.0	
Missing	System	5	2.0		
Total		251	100.0		

q14 How much, if at all, have the changes improved fishing and shell-fishing for those who use the area for those pursuits?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A great deal	11	4.4	10.7	10.7
	Some	13	5.2	12.6	23.3
	A little	6	2.4	5.8	29.1
	Not at all	15	6.0	14.6	43.7
	Don't know	58	23.1	56.3	100.0
	Total	103	41.0	100.0	
Missing	System	148	59.0		
Total		251	100.0		

q15 How much, if at all, have the changes reduced parking access for kayakers?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A great deal	7	2.8	6.9	6.9
	Some	16	6.4	15.8	22.8
	A little	19	7.6	18.8	41.6
	Not at all	14	5.6	13.9	55.4
	Don't know	45	17.9	44.6	100.0
	Total	101	40.2	100.0	
Missing	System	150	59.8		
Total		251	100.0		

q16 How much, if at all, have the changes reduced parking access for residents?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A great deal	5	2.0	4.9	4.9
	Some	13	5.2	12.7	17.6
	A little	13	5.2	12.7	30.4
	Not at all	22	8.8	21.6	52.0
	Don't know	49	19.5	48.0	100.0
	Total	102	40.6	100.0	
Missing	System	149	59.4		
Total		251	100.0		

q17 How much, if at all, have the changes reduced unwanted behaviors and questionable uses of the beach?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A great deal	6	2.4	5.9	5.9
	Some	13	5.2	12.7	18.6
	A little	11	4.4	10.8	29.4
	Not at all	7	2.8	6.9	36.3
	Don't know	65	25.9	63.7	100.0
	Total	102	40.6	100.0	
Missing	System	149	59.4		
Total		251	100.0		

q18 Did you participate in the city's public meetings or discussions regarding the salt marsh restoration?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	21	8.4	8.6	8.6
	No	221	88.0	90.9	99.6
	Don't know	1	.4	.4	100.0
	Total	243	96.8	100.0	
Missing	System	8	3.2		
Total		251	100.0		

q19 Do you have a dog?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	95	37.8	38.6	38.6
	No	151	60.2	61.4	100.0
	Total	246	98.0	100.0	
Missing	System	5	2.0		
Total		251	100.0		

q20 How often is your pet's waste from your yard picked up and put in the trash?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Never, it's left on the ground	5	2.0	5.4	5.4
	Daily	39	15.5	41.9	47.3
	Every couple of days	24	9.6	25.8	73.1
	Weekly	18	7.2	19.4	92.5
	Every couple of weeks	2	.8	2.2	94.6
	Once a month or so	2	.8	2.2	96.8
	Less than once a month	1	.4	1.1	97.8
	Don't know	2	.8	2.2	100.0
	Total	93	37.1	100.0	
Missing	System	158	62.9		
Total		251	100.0		

q21 When your dog is walked, how often is the pet's waste picked up and put in the trash?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Every time	77	30.7	81.9	81.9
	Most of the time	10	4.0	10.6	92.6
	Less than half the time	3	1.2	3.2	95.7
	Never	2	.8	2.1	97.9
	Don't know	2	.8	2.1	100.0
	Total	94	37.5	100.0	
Missing	System	157	62.5		
Total		251	100.0		

q22 Is there a septic system on your property?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	78	31.1	32.2	32.2
	No	157	62.5	64.9	97.1
	Don't know	7	2.8	2.9	100.0
	Total	242	96.4	100.0	
Missing	System	9	3.6		
Total		251	100.0		

q23 Have you inspected your septic system in the past year?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	49	19.5	65.3	65.3
	No	26	10.4	34.7	100.0
	Total	75	29.9	100.0	
Missing	System	176	70.1		
Total		251	100.0		

q24 When was the last time you inspected your septic system?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Within the last three years	26	10.4	89.7	89.7
	More than three years ago	3	1.2	10.3	100.0
	Total	29	11.6	100.0	
Missing	I don't know	1	.4		
	System	221	88.0		
Total		222	88.4		
Total		251	100.0		

Q25r In the past year, how often did you wash your car at home, if at all?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 times	131	52.2	54.6	54.6
	1-2 times	51	20.3	21.3	75.8
	3-5 times	33	13.1	13.8	89.6
	6 or more times	25	10.0	10.4	100.0
	Total	240	95.6	100.0	
Missing	System	11	4.4		
Total		251	100.0		

q26 In the past year, when you washed your car at home, how often was it parked on pavement while you washed it?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Every time	70	27.9	62.5	62.5
	Most of the time	3	1.2	2.7	65.2
	About half the time	3	1.2	2.7	67.9
	Less than half the time	3	1.2	2.7	70.5
	Never	33	13.1	29.5	100.0
	Total	112	44.6	100.0	
Missing	System	139	55.4		
Total		251	100.0		

Q27r Applied chemical bug killers or chemical weed killers in your yard

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 times	159	63.3	65.7	65.7
	1 time	32	12.7	13.2	78.9
	2 times	22	8.8	9.1	88.0
	3 or more times	29	11.6	12.0	100.0
	Total	242	96.4	100.0	
Missing	System	9	3.6		
Total		251	100.0		

Q28r Applied chemical fertilizers on your lawn

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 times	153	61.0	66.5	66.5
	1 time	41	16.3	17.8	84.3
	2 times	31	12.4	13.5	97.8
	3 or more times	5	2.0	2.2	100.0
	Total	230	91.6	100.0	
Missing	System	21	8.4		
Total		251	100.0		

Q28br Applied chemical fertilizers on your garden beds

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 times	166	66.1	80.2	80.2
	1 time	20	8.0	9.7	89.9
	2 times	12	4.8	5.8	95.7
	3 or more times	9	3.6	4.3	100.0
	Total	207	82.5	100.0	
Missing	System	44	17.5		
Total		251	100.0		

q29_1 Removed non-native plants

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UnChecked	164	65.3	65.6	65.6
	Checked	86	34.3	34.4	100.0
	Total	250	99.6	100.0	
Missing	System	1	.4		
Total		251	100.0		

q29_2 Added native plants

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UnChecked	145	57.8	58.0	58.0
	Checked	105	41.8	42.0	100.0
	Total	250	99.6	100.0	
Missing	System	1	.4		
Total		251	100.0		

q29_3 Replaced non-native plants with native plants

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UnChecked	209	83.3	83.6	83.6
	Checked	41	16.3	16.4	100.0
	Total	250	99.6	100.0	
Missing	System	1	.4		
Total		251	100.0		

q29_4 None of these

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UnChecked	156	62.2	62.4	62.4
	Checked	94	37.5	37.6	100.0
	Total	250	99.6	100.0	
Missing	System	1	.4		
Total		251	100.0		

q30 In the past three years have you reduced the size of your lawn?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	61	24.3	27.2	27.2
	No	163	64.9	72.8	100.0
	Total	224	89.2	100.0	
Missing	Don't know	3	1.2		
	System	24	9.6		
	Total	27	10.8		
Total		251	100.0		

q30a Did you add native plantings to areas that used to be lawn?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	32	12.7	50.8	50.8
	No	31	12.4	49.2	100.0
	Total	63	25.1	100.0	
Missing	Don't know	6	2.4		
	System	182	72.5		
	Total	188	74.9		
Total		251	100.0		

q30b Is the reduction in your lawn's size more than half, about half or less than half of what the lawn used to be?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	More than half	6	2.4	9.5	9.5
	About half	3	1.2	4.8	14.3
	Less than half	48	19.1	76.2	90.5
	Don't know	6	2.4	9.5	100.0
	Total	63	25.1	100.0	
Missing	System	188	74.9		
Total		251	100.0		

q31 In the past year, when you've had motor oil, antifreeze, liquid paint or pesticides to dispose of, how often did you put them in the trash?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Every time	12	4.8	5.0	5.0
	Most of the time	1	.4	.4	5.4
	About half the time	1	.4	.4	5.8
	Less than half the time	5	2.0	2.1	7.9
	Never	144	57.4	59.5	67.4
	Not applicable- I've not had anything like that to dispose o	79	31.5	32.6	100.0
	Total	242	96.4	100.0	
Missing	System	9	3.6		
Total		251	100.0		

q32 How knowledgeable are you about local wildlife and sensitivity of the Chuckanut Bay area?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely knowledgeable	14	5.6	5.7	5.7
	Very knowledgeable	42	16.7	17.1	22.9
	Somewhat knowledgeable	100	39.8	40.8	63.7
	Not very knowledgeable	53	21.1	21.6	85.3
	Not at all knowledgeable	36	14.3	14.7	100.0
	Total	245	97.6	100.0	
Missing	System	6	2.4		
Total		251	100.0		

Q33r In the past year, how often have you shared your knowledge of the local wildlife and sensitivity of the Chuckanut Bay area with others?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	0 times	120	47.8	65.6	65.6
	1-2 times	27	10.8	14.8	80.3
	3-9 times	23	9.2	12.6	92.9
	10 or more times	13	5.2	7.1	100.0
	Total	183	72.9	100.0	
Missing	System	68	27.1		
Total		251	100.0		

q34 How familiar are you, if at all, with the Chuckanut Bay Pledge?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely	2	.8	.8	.8
	Very	12	4.8	4.9	5.7
	Somewhat	31	12.4	12.7	18.4
	Not very	29	11.6	11.8	30.2
	Not at all	157	62.5	64.1	94.3
	Don't know	14	5.6	5.7	100.0
	Total	245	97.6	100.0	
Missing	System	6	2.4		
Total		251	100.0		

q35 How much, if anything, did you hear or see about these events?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A great deal	1	.4	.4	.4
	Some	39	15.5	16.3	16.7
	A little	66	26.3	27.5	44.2
	Nothing at all	124	49.4	51.7	95.8
	Don't know	10	4.0	4.2	100.0
	Total	240	95.6	100.0	
Missing	System	11	4.4		
Total		251	100.0		

q37 How interested would you be in seeing more events like these?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Extremely	4	1.6	3.3	3.3
	Very	20	8.0	16.3	19.5
	Somewhat	62	24.7	50.4	69.9
	Not very	19	7.6	15.4	85.4
	Not at all	13	5.2	10.6	95.9
	Don't know	5	2.0	4.1	100.0
	Total	123	49.0	100.0	
Missing	System	128	51.0		
Total		251	100.0		

q38 What would be the most effective way to reach you about these events if there are more in the future?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Direct mailings	66	26.3	28.1	28.1
	Neighborhood signs/sandwich board	44	17.5	18.7	46.8
	Press release in local papers	60	23.9	25.5	72.3
	Email listing	49	19.5	20.9	93.2
	Website posting	5	2.0	2.1	95.3
	Something else, please describe:	11	4.4	4.7	100.0
	Total	235	93.6	100.0	
Missing	System	16	6.4		
Total		251	100.0		

q39_1 ReSources

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UnChecked	166	66.1	66.4	66.4
	Checked	84	33.5	33.6	100.0
	Total	250	99.6	100.0	
Missing	System	1	.4		
Total		251	100.0		

q39_2 Shore Stewards

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UnChecked	226	90.0	90.4	90.4
	Checked	24	9.6	9.6	100.0
	Total	250	99.6	100.0	
Missing	System	1	.4		
Total		251	100.0		

q39_3 WSU Extension

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UnChecked	218	86.9	87.2	87.2
	Checked	32	12.7	12.8	100.0
	Total	250	99.6	100.0	
Missing	System	1	.4		
Total		251	100.0		

q39_4 City of Bellingham

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UnChecked	182	72.5	72.8	72.8
	Checked	68	27.1	27.2	100.0
	Total	250	99.6	100.0	
Missing	System	1	.4		
Total		251	100.0		

q39_5 Bellingham Parks and Recreation

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UnChecked	147	58.6	58.8	58.8
	Checked	103	41.0	41.2	100.0
	Total	250	99.6	100.0	
Missing	System	1	.4		
Total		251	100.0		

q39_6 Others

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	UnChecked	228	90.8	91.2	91.2
	Checked	22	8.8	8.8	100.0
	Total	250	99.6	100.0	
Missing	System	1	.4		
Total		251	100.0		

q41 Have you visited the City's website for Chuckanut Bay?

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes	34	13.5	14.3	14.3
	No	199	79.3	83.6	97.9
	Don't know	5	2.0	2.1	100.0
	Total	238	94.8	100.0	
Missing	System	13	5.2		
Total		251	100.0		

APPENDIX C: VERBATIM OPEN-ENDED COMMENTS

If there are any other issues you think are a major problem in the area, please describe them below:

- "illegal and improper parking" especially along the right shoulder approaching the bridge. It caused erosion into the marsh. It did not help that leftover gravel in that area made for an easy parking area in an area not designated for parking! Government intrusion. Hostile mailing this past summer from city which included unnecessary color copy pages - wasting taxpayer money. Tone of mailing was accusatory, demeaning to our intelligence, and blaming die back of plantings to community when in fact, the plantings were not properly cared for during the crucial period when they take hold.
- People forgo empty parking spaces and park closer to loading areas but by the side of the road. They have crushed/killed any plants along there. 2. Litter and dog waste: Still a problem but we see less of it. We also see baggies of dog waste left by the side of the road and not disposed of in the garbage. 3. Speeding: A few, well-placed signs and a couple of speed bump mags would help slow people down.
- 11. Used to be, not now. You can tell by the lack of growth of algae.
- Access to Clayton Beach - is this now blocked?
- Coal trains!
- Didn't know the Mud Flats are now officially "Chuckanut Bay".
- Disabled parking is too far away and too steep to the beach. There should be 1 disabled space by the bridge and 1 unload.
- Dogs chasing shorebirds and trampling the mud flat fauna and flora. Dogs barking and bothering people seeking solace. Way too many unleashed dogs.
- Harder for people to launch kayaks.
- I can't tell what is private property, both for knowing where I can park, where to lock my bike, where to launch my kayak, etc. More signage and explanations are needed.
- I resent that the city has pushed itself onto neighboring properties, using a "right of way" that was never designed or intended for this type of use. I do not like the signage. It is too commercial for a residential low key neighborhood.
- I visited in December so there was no one camping, using drugs, etc.
- I'd like more area for dogs and dog waste bags and garbage cans provided - unfortunately not all dog owners are responsible making it easy to get rid of waste and human trash would help.
- Leaking oil fuel tanks, old. I see oil film under the little bridge nearly every time I am there. Also sometimes on beach.
- Nice place. Usually sparsely attended.
- Not enough parking for the intended uses.
- Not marked as public.
- Not problems for me.
- Over regulation and too much money spent on something that could easily (and more effectively) be handled by willing parties in the neighborhood. Tax money, committees, surveys, etc. not necessary for this tiny little park.
- Parking at Woodstock Farm.
- Parking was not a problem only because there was no one else around except our one-car group. I don't know where another car or two could park around the end of Fairhaven Ave. (I don't know about most of the "problems" because we did not walk down to the water, and no one else was around when we visited the area.)
- Regarding litter, we mainly see plastic and aluminum cans that have likely been washed in with the tides.
- Removal of noxious weeds was supposed to occur. There is lots of giant hogweed still there.
- Smell.
- Speeding is a problem between Old Fairhaven Parkway and Old Samish on 30th. 30th needs a shoulder and maintenance of road.

- Speeding on Chuckanut drive - a major problem.
- The area is prone to landslides forcing bad closures. Self-sufficiency and emergency preparedness are important.
- The house next to the park was allowed to build septic system within the winter high tide zone.
- The speed on Chuckanut Drive. Motorcycles and very fast drivers all summer - especially going north past the fire department.
- The speed on Fairhaven Ave doesn't happen all the time, but often and many small children live along it. Also, fairly regularly I see cars parked in the loading zone - but typically only during quiet times of park use.
- There is a "no shellfishing" sign up most of the time - pollution?
- Too much noise from leaf-blowers around Viewcrest Rd and Sea Pines homes.
- We visit the area mostly by boat - rarely go to shore. It has been tidy when we do visit shore.

Please describe any other beneficial changes you've noticed in the area:

- The creek at the end of the road seems much healthier. 2. I appreciate the "naturalization" of the shoreline.
- Beach protected. Stream rehabbed.
- Cars off beach. Better natural system.
- Enjoyment of nature has been greatly improved.
- Great habitat gain for fish. Reduced pollutants to bay.
- I am happy for eelgrass restoration but didn't really know I could use this park.
- I rarely visit the beach area any more. Haven't seen the recent changes. Since 2005 visit 30 Nov 2012 very nice work. Good place to park.
- I was concerned about access for kayaking and the ability to load and unload kayaks. It seems to work just fine.
- It is much more pleasing to look at (the beach, etc.) More plants are there, etc. Better aesthetics.
- Less parking means less people can use this public resource. Is it really worth the money the city is spending on this for the few that actually use it?
- Less risk of high boat traffic and hopefully less crabbing but not sure about that.
- Loss of parking viewing of bay.
- Marsh area appears thriving. Beach cleaner than in 2008, my first year in the area.
- Since the restoration, illegal activities have diminished tremendously. Pot smoking seems to have disappeared, dog waste reduced, late noises and loud music in general are gone, debris on the beach reduced and great improvement to the beauty of the beach area.
- Thank you for keeping motor vehicles away from the water. When we visit, we walk or bike with our kayaks. Distances is a bit over a mile. Cars are responsible for much water pollution.
- The area is not getting destroyed by all the humans and some animals - good job.
- The beach looks much nicer and natural, no tire marks, litter and dog poop lying around.
- The city employee who previously used to snooze at the beach now has to use the parking area.
- The fact that the area is so well built (bridge, path, etc) and that the signs are so good, communicates that it is a public space and not private enough for criminal activity.
- The marsh drains out much more quickly now and this creates a drier habitat. Was this the intention?
- The project has helped to preserve the beach by not allowing vehicle traffic on the beach.
- The vegetation effort has been very successful and I also enjoy the openness of the creek. It is visually very attractive.
- There seemed to be a healthy grouping of baby cohos and the "nursery" was there for them - worthy!
- When I went it was pristine. I visited by boat in September, 2012. I live on Chuckanut Sh. Rd.

- Newspaper.
- Newspaper.
- Newspaper.
- Notices in the "B'ham Herald".
- Paper - Herald.
- Paper and mailing.
- Post card.
- Poster at Marine Park? B'ham Herald? Environmental group newsletter?
- Read it somewhere.
- ReSources, email.
- Sandwich board on Chuckanut Dr.
- Shoreline newsletter.
- Sign board.
- Sign in neighborhood, letter.
- Signs and newspapers.
- Signs,
- Signs.
- Signs.
- Take Five - B'ham Herald.
- Through South Neighborhood Association.
- Via email? Or the sign at the fire station?
- Weekly?
- Whatcom Marine Resources Committee meetings/fliers and sign boards.
- Word of mouth.
- Word of mouth.

What would be the most effective way to reach you about these events if there are more in the future? Something else:

- Don't know.
- email listing via Chuckanut HO Assoc.
- ENA
- KGMI
- Neighborhood newsletter.
- Not interested.
- Radio - local FM.
- Twitter, from a Bellingham feed.
- value-pack

Which of the following organizations do you trust most to provide you with accurate information about the Chuckanut Bay area? Others:

- All about equal. I don't really trust one over the other.
- Andy Bunn
- Bellingham Herald
- CBCA Chuckanut Bay Community Assoc.
- CCFA
- Chuckanut Association newsletter.
- Chuckanut Bay Community Assoc.
- Chuckanut Bay Community Organization
- Chuckanut Beaches Assoc.
- Chuckanut Community meetings.
- Chuckanut Neighborhood newsletter.
- Edgemoor Neighbors Association.
- Friends of Chuckanut
- High school requirement for Biology students.
- Just keep me informed of events.
- Neighborhood Associations.
- Neighborhood signs/sandwich boards, e-mail notices, and flyers posted in public places would be helpful in our case. Parking advice would be VERY welcome.
- Neighbors.
- Neighbors/people I personally know.
- None - too political.

- None of the above.
- None of those listed.
- Notify the community via the above
- Radio
- You should have several, in order for all to hear about it.

What else could the City do to make sure you can attend if we have more events?

- Early notification. 2. Not events just for children.
- Inform 2. Schedule often.
- Adequate parking.
- Advertise available parking.
- Advise WAKE. Current weekly publications.
- Be more scientific and less political.
- Better advertising.
- Can or "do" attend? First you must ask "why" you need attendance. 1. Output literature needs to stress the need for attendance. 2. Combine event with another as in this is one stop on a tour. Example: city park wide treasure hunt where each stop has an educational "finding" and all must be collected placed in for a winner. Win what? make something up/have a sponsor.
- Consider time, place and parking.
- Email
- Email list.
- Email.
- Email.
- Events should be when most workin gpeople can go - not 8 - 5 M - F.
- Flyers.
- Give adequate notice particularly through neighborhood associations.
- Hard to say... kids' scavenger hunt?
- Have less people show up. I hate crowds and commotion.
- I am happy with the notices I now see.
- I am most likely to attend the family friendly events at Chuckanut Bay on the weekend or during the summer (although we often have conflicts.)
- I do not care to attend any events.
- I don't need events. I love the quiet and solitude.
- I have never heard of this park but I wish I knew how to get to the area. I assume it is close by, on Chuckanut Bay.
- I would not attend.
- I'm too old to go anywhere.
- Increased use impacts wildlife, a balance needs to be found with higher use and the need of this rare place where wildlife come to rest, especially in winter.
- Just being notified would increase the chances of us attending.
- Keep trying!
- Leave the bay alone!
- Mail notice.
- Mail something.
- Make announcements in the paper.
- Make it known and applicable to me. I have lived here for 25 years and owned my property on Chuckanut Drive for over 40 years and didn't know there was a park at "Chuckanut Beach" or even heard of Chuckanut Beach.
- Make presentations to n'hood assoc. meetings.
- Make sure they give plenty of notice and maybe have snacks.

- No idea.
- No ideas to offer.
- Nothing.
- Nothing.
- Nothing.
- Nothing.
- Notices in paper, email. Didn't know about the website. We'll look at it, just to be sure people know of events, direct contact by mail or email is necessary.
- Please include detailed information about where the events take place and where Chuckanut Bay Park is located.
- Post notices on CBCA website. Chuckanut Bay Community Assoc.
- Press release.
- Probably nothing since I'm so highly committed and involved in other community activities.
- Publicize events more.
- Put info out.
- Put notices in B'ham Herald Events calendar.
- Put on RESources website and include in their monthly e-newsletter.
- Stop sending Chuckanut neighbors threatening letters. Work to stop coal trains.
- Stop the events. They bring people!
- Street sign.
- Try harder to make sure I understand the purpose of the event, I would attend.
- Variety of dates in summer.
- Water cooler postings, notices with utility bills.
- We are new to the area and rebuilding a house. Hopefully, we will become more aware of our surroundings with time.
- We are over-taxed as a county. As a result, I work most available hours/times.
- Weekend...
- You know that blue value-pack that everybody gets in the mail. I've seen non-profits and other causes use that to get the word out. You could post events and calendars in a slip of paper in that. Gotta be cheap and everybody gets it.

Please provide your email address if you would like the city to send you periodic information about Chuckanut Bay. (sent under separate cover)

If you would like to add any comments about your responses to the questions above, please do so here

- Teddy Bear Cove? which park? not clear. I live on CB across from Chuckanut Island. I sometimes walk to Teddy Bear Cove mostly in the winter.
- 27. We used what was considered "environmentally friendly" chemicals.
- 28: I live at condo - contractor handles all landscape maintenance.
- Appreciate the work. Thanks!
- Are you referring to Larrabee State Park? Is there another park on our bay? Our 5 beaches are not a park.
- Changes have reduced access for small boat launching for fishing and crabbing. Changes have limited access for people with disabilities. The handicapped parking spot is too far away. Suggest changing one of the two launch/load-unload spots to handicapped parking. We've witnessed people leaving because they're discouraged by this lack of access. Thank you.
- City paid \$1.10 to mail this survey to me. Don't know how many you sent, but pretty expensive since the city should have a bulk permit.
- Concern: Fire! Will beach fires be permitted?
- Follow up to #40 "why" want attendance. 1. Need to justify money spent. 2. Want to educate. 3. Need financial support. 4. Just part of the program for these type project. 5. Want support

from citizens for more projects. *Define success: If 1,000 folks showed up in a six hour period? Yikes! Craft message to fit outcome and match program/event to fit message.

- FYI - I've only recently moved here. Looking forward to getting to know the area better.
- Good try at getting local community involved with the project.
- How much did this survey cost and who is paying for it?
- I apologize for the negative tone of my responses. I just don't see the need for this type of spending in the midst of a recession, when I can barely afford the basics.
- I appreciate your efforts although I myself will most likely not be actively involved.
- I dearly love the Chuckanut Bay area and would love to be more involved with what goes on there. I have been in Europe the past 2 1/2 months which is why I haven't been to visit more. I hope this is helpful and please let me know if there is anything I can do in keeping the Chuckanut area a beautiful, healthy and natural environment.
- I don't go to Chuckanut Bay very often but I do hike in the Chuckanuts every week.
- I have been unaware of the park, but now that I know about it, I'm very concerned about its vulnerability to pollution from the proposed increase in trains carrying coal and oil! I urge the agencies involved in restoration to submit scoping comments that urge the inclusion of imports to all shoreline parks in the EIs for the Gateway Pacific Terminal.
- I miss seeing the fireworks!
- I own the property above the bay so I am happy you are improving conditions. We need to get rid of the trestle. The bay is filling in.
- I really like the improvements the city has made with one exception, the handicap area parking - which is huge and yet I have never seen anyone use it. Okay...and one other thing, I don't love having the interpretive signs, but if they are needed I think they are good ones. Thank you!
- I strongly support environmental stewardship of our land and water including Chuckanut Bay. Not attending the 4 events listed is not an indication of indifference nor lack of knowledge about water issues in general. Invasive species, pollution, climate and public use/abuse are major issues of concern.
- I think this survey is a waste of money.
- I was pleased to learn about Chuckanut Bay, and heartily endorse plans for restoration and improvement.
- I would like an effort made, either through the state or local, to negotiate with BNSF to put more openings in the rock rail causeway. The goal to increase tidal flow in Chuckanut Bay, which is not silting up.
- If more coal trains come this won't matter. Has the railroad answered this. Coal falls off cars now. Railroad ties and defoliant spray may kill anything... sorry, but the facts.
- I'm concerned about the cost of this in time and money to the city. After seeing all that has been spent for Woodstock Farm and the Chuckanut Ridge properties it seems the city is spending too much and the public is not getting a good return on investment.
- In these times of budget deficits, this survey is a blatant waste of taxpayer funds. I am highly offended with plans to increase property taxes when money is spent on such nonessential things as this survey. Obviously government is clueless about how wasteful they are. Looks like people are trying to create government jobs for themselves.
- It wasn't clear where the park at Chuckanut Bay was located.
- It would be interesting to know what would do more harm to the environment. 1. A dock that would extend 100 feet for use by the public or 2. kayakers and paddle boarders walking on the mud flats to launch their watercraft. BAN ALL DOGS! Thank you.
- It's been wonderful living down here in Chuckanut Village after retiring. We love the beach, the neighbors, the deer and our fruit trees.
- Keep up the good work. Chuckanut Bay is a great resource.
- Live on Whatcom Creek formerly Southsider. Got involved a bit thru Parks Board and Greenways.
- Living on Sea Pines Lane, high above shoreline, doesn't provide much identity with the community below. I certainly appreciate what is happening there and do my part by not

having toxic runoff from my property. Perhaps next time there's an event I'll go!
Make results of surveys more readily available.

- My family does not live near or in the watershed of Chuckanut Bay.
- My friend Emily Smith (now Flerry) was part of the restoration project along Post Point. I think the work done has been well executed and very beneficial.
- My husband and I value all efforts to protect the bay and the shoreline and the creatures that inhabit it. However, we get way too much email as it is. We would prefer information to be updated on your website so we could check it occasionally. Also could post info on signs at the site itself. Thanks for this information.
- Need a "No Beach Access" sign on the corner of Fairhaven Ave and 18th St to prevent people from parking on Rainier Ave.
- Note: We've just moved to Chuckanut area last Nov. 2011. We may be in the loop, now, to hear about C.B. happenings.
- Our address is 1329 Chuckanut Dr, about 1/4 mile s. of city limit. We use that park access to launch kayaks at high tide but have no visual or sound access from our home. Thanks for your efforts for the park.
- Our car habits are a major source of water pollution! Does the general public know this? Doubtful as it's normally referred to in terms of "storm water run off". If the public was given clear information about all the water pollution caused by motor vehicles and really encouraged to drive less for the health of our waters, I firmly believe many would choose to drive less and walk, bike and transit more. Please educate the public beyond fertilizers and dog poop!
- Parking is needed and signs from the lots would increase use - like-> "Places of interest: 1. Chuckanut Bay Park (description) 2. Arroyo 3. Teddy Bear Cove 4. Interurban Trail 5. Woodstock Farm -to learn more visit website" Print signs on metal, plastic coat, place on plastic post to increase longevity. Add pointer signs. Add trail from trailhead to Chuckanut Bay and Woodstock. -Best to you, Jody (former Greenway co-chair) Hi to Tim Wah!
- Please note: we just moved to Bellingham in late May 2012.
- RR work has spread white taps covered with oil along the intertidal zones. The RR ties that weren't on the track itself were left and are floating in the bay - with oil oozing out of them. All the good work the city has done is being offset by BNSF. Multiple complaints have to correct these problems.
- Sadly, knew nothing about any of this, and I'm relatively active in the Chuckanut Bay Community Association. <http://www.chuckanutcommunity.org/cbcahome.htm>
- Sorry I am so ignorant of subject. Hope to learn more in the future.
- Sorry. I don't give my e-mail to surveys.
- Sounds all great... I just never heard or became aware of this project or location. I'll go visit soon.
- Stop wasting tax dollars on surveys etc. Hydrocarbons are never an issue!
- Suggest you read "King of Fish" by professor Michael Montgomery @ UDub. Issue for this county is simple rules and effective enforcement!
- Thank you for ever increasing the quality of life in Whatcom County!
- Thank you for the survey and opportunity to be included. I will be visiting this area now.
- Thank you for your concern for the environment and for compatible use of our public sites while protecting the environment.
- Thanks for protecting our natural resources - now stop coal and oil. 27: I've seen my neighbors spraying - especially the OLD, set in their ways.
- Thanks!
- The oil slick concerns me - I wasn't sure who to call.
- The rebuilt bridge and signs are quite ostentatious and detract from the original quiet natural beauty of the bay. The logs interspersed with boulders sure looks less natural and unattractive. The largest threat to this shoreline and marsh is goal train invasion and air and noise pollution from increased air traffic. We are sad that plantings did not get proper follow up care - many were choked out by grass or died from not being watered. What a waste of taxpayer money!

- The use of the term Chuckanut Bay is confusing. I think Teddy Bear Cove is in Chuckanut Bay and Woodstock Farm.
- The Whatcom Watch would be a good place to have an article on Chuckanut Bay - contact them.
- There are several (3) Chuckanut Bay beach access points - being specific re: which location would be helpful. Thanks!
- This seems to be a huge effort over a little project. I prefer all agencies to stay out of our natural resources except to protect them.
- This survey serves as a reminder. Perhaps consider: materials directed toward other household members? Mom has buy-in but reinforcing messages to spouse, kids, etc.
- Undesirable use of public parks is a real, valid concern and should be dealt with through policing and prosecution, not limiting access. I also worry that surveys like this and the org. behind them want to control and limit property rights of owners/taxpayers around these parks. We have gone too far intruding on private property rights and this "smells" like more intrusion. If government is going to reduce the rights of property owners to use their land... then the taxes they collect from those owners should be reduced. It is just another great government hypocrisy... take their money, take their rights. I worry about these things.
- Was not aware of reason which led to parking changes or limiting access to area.
- We are older and never use parks. It's not that we are not interested, it's just that we have other forms of recreation.
- We are opposed to the Special Park District, Dan Pike misappropriated \$ to buy Chuckanut Ridge and now there is a group wanting to find a way to pay for part of the purchase to pay back the Park fund by taxing property owners more thru a Special Park District. No more taxes.
- We first heard of the park at Chuckanut Bay from this survey and went down for a visit. It's a beautiful spot. Very happy to know about it and pleased it is being cared for. There was a bit of trash on the shoreline which we placed in the well placed trash can. Thank you!
- We have lived here for two years. Since the city has bought the Hundred Acre Woods, we have spent a lot of time exploring it, and all of the adjoining trails. It's very close to our house - without driving anywhere. Besides checking out Chuckanut Bay, we haven't spent time there.
- We have not heard of the Chuckanut Bay area park or the Marsh Restoration Project. We do not know the boundary of the Chuckanut Bay area. We will look it up online to become more knowledgeable about this project. We are sensitive to the use of chemicals/fertilizers, sudsy water into sewers but not in relation to this project - just in general - to keep our waters clean.
- We spend our time "on" the bay, rarely going on shore. We have a 34' wooden cruiser so we anchor and fish, crab, explore with our two shore boats. Our experience is always fine, water clean, etc.
- We were unaware of the existence of this park. Why are there no signs about the park on Chuckanut Drive?
- Were the culprits of the recent vandalism in the park apprehended? Will there be a monitoring program for the park established?
- What a beautiful, functional improvement to Chuckanut Bay Marsh!
- Where is the "park" at Chuckanut Bay?
- Why would you include residents in this survey after all of this time - with no prior communication. It seems like a waste of time and money.
- Will not provide my email on this survey because it should be anonymous.
- You can see by my crossed out responses that I didn't know what park to which you were referring. There are many parks on Chuckanut Bay (5 owned by Chuckanut Beaches Assoc) and Larrabee Park, so referring to "the park at Chuckanut Bay is confusing to people.
- You might want to contact Frank James for so excellent photography of Chuckanut Bay wildlife, sunsets, natural beauty.