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The views expressed herein are those of the author(s) and do not necessarily reflect the views of NOAA or any of its subagencies.

Summary Report

Task 3.4: Coastal Outreach Project

Prepared By Coastal Geologic Services

June 16, 2011

Prepared For Whatcom County Marine Resources







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Outreach to Coastal Property Owners in Whatcom County, WA A Targeted Approach



Prepared for: Whatcom County Marine Resources Committee

Prepared by: Coastal Geologic Services, Inc.

With assistance from: Environmental Education Consulting Services



Bellingham, WA June 14, 2011

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Introduction and Purpose

The overarching goals of this project were to identify coastal property owners who would be interested in conducting restoration or conservation of their coastal property and to provide information and resources to become better stewards of their properties. Coastal Geologic Services, Inc. (CGS) was contracted by the Whatcom County Marine Resources Committee, through Whatcom County Public Works- Natural Resources, to conduct a targeted outreach program that would function as the first step toward these goals. The outreach program entailed multiple surveys of targeted waterfront property owners in Whatcom County, followed by educational workshops focused on best management practices, nearshore restoration/ enhancement, and why restoration and conservation of private property is critical to the health of Whatcom County marine resources.

The target audience included shoreline property owners whose property encompassed forage fish spawning habitat or feeder bluffs. Forage fish spawn in the upper intertidal of many beaches in Whatcom County and are central to the nearshore food web. Feeder bluffs are the primary nearshore sediment sources, which supply and maintain beach structure and habitat. A GIS database was created of privately held parcels that meet these criteria. A post card mailer that included a brief survey was sent to each of the parcels in the targeted areas. This mailing included information about the Whatcom County Marine Resources Committee, a survey to measure interest in learning more about coastal issues, and an invitation to attend a free "Living with the Coast" educational workshop which included two presentations and a field trip (Appendix 1). Following the workshops, attendees were surveyed in a workshop evaluation to measure the perceived value of the educational experience as well as interest in learning more about voluntary restoration or conservation actions that could take place on their properties. A list was compiled of all coastal property owners interested in learning more about restoring or conserving nearshore habitat on their properties. Interested parties would then be guided along the appropriate path to move forward with their selected action in a forthcoming feasibility and implementation effort. Coastal property owners willing to take steps towards restoration and conservation on their property could mark a progressive step in the face of both a critical need and one of the greatest constraints to nearshore restoration in the Puget Sound region. The Whatcom County coastline is approximately 95% private ownership (Figure 1).

Background

Whatcom County Bluffs and Beaches

The Strait of Georgia and adjacent Whatcom County waterways of the "Northern Straits" are the central features in the Puget Lowland-Salish Sea, and consist of a complex series of generally north-south trending deep basins. The Sound and Straits were created by the repeated advance and scouring of glacial ice-sheets, the most recent of which advanced into the area around 15,000 to 13,000 years ago (Easterbrook 1992). Glacially derived sediment dominates the region (Easterbrook 1976), and along with less common interglacial sediment, that are exposed in coastal bluffs and these are present along the majority of Whatcom County shores.

Bluffs are subjected to wave attack at the toe of the slope, which contributes to intermittent bluff retreat through mass wasting events (commonly referred to as landslides) such as slumps and debris avalanches. Although landslides can also be initiated by hydrologic processes and land use/development changes, wave attack is a long-term driving force in bluff failures in Whatcom County. As forwarded by Emery and Kuhn (1982), a steep, sharp-crested, unvegetated bluff profile with sparse debris at the toe of the bluff is indicative of an actively retreating marine bluff dominated by marine erosion. This is the case

in many Whatcom County bluffs, but there are also many subtleties in area bluffs that vary across the county.

Beaches in the study area are composed of cobble, gravel and sand and are ubiquitous, whether at the toe of bluffs or along very low elevation backshores. The morphology and composition of beaches in the study area are controlled by sediment input, wave climate, and shore orientation. Bluff sediment input, primarily glacially-deposited units, is the primary source of beach sediment in Puget Sound and the Northwest Straits (Keuler 1988, Johannessen and MacLennan 2007). Landslides and erosion of these bluffs deliver sediment to the beach in moderate quantities. A secondary sediment source is rivers and streams, however, river and stream sediment input is thought to be responsible for on the order of only 10% of beach sediment in the Sound and Straits, with the majority (approximately 90%) originating from bluff erosion (Keuler 1988). As sediment is transported along a beach, it must be continuously replaced for the beach to maintain its integrity. Beach sediment size is strongly influenced by the available sediment coming from bluff erosion as well as wave energy, and therefore varies considerably across the county.

A beach serves as a buffer against direct wave attack at the bluff toe. The value of a "healthy" beach fronting a coastal bluff should not be underestimated for absorbing storm wave energy. A gravel berm can serve as a resilient landform with an ability to alter shape under different wave conditions, effectively dissipating most wave energy. Extreme waves do reach bluffs causing erosion, which delivers sediment to the beach and is vital to maintaining the beach. Therefore, bluffs, beaches, and nearshore areas are *completely connected as integral parts of a coastal system*. Past and current management typically treated the bluffs and beaches as separate parts of the coastal system, which has resulted in substantial negative impacts to coastal erosion, nearshore habitats and wildlife.

Net Shore-drift

Shore drift is the combined effect of longshore drift, the sediment transported along a coast in the nearshore waters, and beach drift, the wave-induced motion of sediment on the beachface in an alongshore direction. While shore drift may vary in direction seasonally, net shore-drift is the long-term, net effect of shore drift occurring over a period of time along a particular coastal sector (Jacobsen and Schwartz 1981).

The concept of a drift cell has been employed in coastal studies to represent a sediment transport sector from source to terminus along a coast. A drift cell is defined as consisting of three components: a site (erosional feature or river mouth) that serves as the sediment source and origin of a drift cell; a zone of transport, where wave energy moves drift material alongshore; and an area of deposition that is the terminus of a drift cell. Deposition of sediment occurs where wave energy is no longer sufficient to transport the sediment in the drift cell.

Net shore-drift mapping in Whatcom County was completed in the 1980 by Edmund Jacobson, under the direction of Dr. Maurice Schwartz. This data was reprinted in Schwartz et al. (1991). Wolf Bauer (1974) also mapped "drift sectors" in a report prepared for Whatcom County. The Bauer mapping was based on observations of the upper foreshore only (high tide beach), and was stated as a preliminary effort only. Both of these mapping efforts provided the building blocks of a study conducted in 2006 by CGS, *Whatcom County Feeder Bluff Mapping and Drift Cell Ranking Analysis*, which identified the geomorphic character of the Whatcom County shoreline. The study was contracted by Whatcom County Marine Resources Committee (MRC) and Whatcom County Planning & Development Services (PDS) in support

of the county Shoreline Master Program update. The datasets provided in the 2006 Whatcom County Feeder Bluff Report, specifically feeder bluff and feeder bluff exceptional units, and shore modification units were used in this report to identify the target audience. Refer to the 2006 report for further detail of shore mapping.

Shore Modifications

Erosion control or shore protection structures are common along the shoreline of Whatcom County. Residential and industrial bulkheads (also called seawalls) are typically designed to limit the erosion of the backshore area or bluff, but have numerous direct and indirect impacts on nearshore systems. Seawalls and bulkheads have been installed more routinely in the past few decades as property values have raised and marginal lands are developed. The effects of bulkheads and other forms of shore armoring on physical processes have been the subject of much concern in the region (for example, PSAT 2003).

A bulkhead constructed near the ordinary high water mark (OHWM) in a moderate energy environment increases the reflectivity at the upper beach substantially, causing backwash (outgoing water after a wave strikes shore) to be more pronounced. Increased backwash velocity removes beach sediment from the beachface, thereby lowering the beach profile (MacDonald et al. 1994). A bulkhead constructed lower on the beach causes greater impacts (Pilkey 1988). Construction of a bulkhead at or below OHWM results in coarsening of beach sediment in front of the bulkhead (MacDonald et al. 1994). Relatively fine-gain size sediment is mobilized by the increased turbulence caused by the bulkhead (Miles et al. 2001), and is preferentially transported away, leaving the coarser material on the beach. Over the long term, the construction of bulkheads on an erosional coast leads to the loss of the beach (Fletcher et al. 1997, Douglass and Bradley 1999).

Of all the impacts of shore armoring in the Puget Sound and Northern Straits, sediment impoundment is probably the most significant negative impact (PSAT 2003). A structure such as a bulkhead, if functioning correctly, "locks up" bluff material that would otherwise be supplied to the net shore-drift system. This results in a decrease in the amount of sediment available for maintenance of down-drift beaches. The negative impact of sediment impoundment is most pronounced when armoring occurs along actively eroding bluffs (MacDonald et al. 1994, Griggs 2005). The extent of cumulative impacts from several long runs of bulkheads is a subject of great debate in the coastal research and management communities.

Coastal Processes, Habitat, and Species

Shore modifications damage the ecological functioning of nearshore coastal systems. The proliferation of these structures has been viewed as one of the greatest threats to the ecological functioning of coastal systems (PSAT 2003, Thom et al. 1994). Modifications often result in the loss of the very feature that attracted coastal property owners in the first place, the beach (Fletcher et al. 1997).

With bulkheads and other shore modifications such as filling and dredging, net shore-drift input from bluffs is reduced and beaches become "sediment starved." The installation of these structures typically results in the direct burial of the backshore area and portions of the beachface, resulting in reduced beach width (Griggs 2005) and loss of habitat area. Large woody debris (LWD) is usually transported away from the shore following installation of bulkheads, with corresponding changes in habitat. This leads to a direct loss of nearshore habitats due to reduction in habitat patch area.

Bulkheads and other hard shore armoring leads to reduction in epibenthic prey items, potentially increased predation of salmonids, loss of organic debris (logs, algae) and shade, and other ecological impacts (Thom et al. 1994). The reduction in beach sediment supply can also lead to an increase in coastal flooding and wave-induced erosion of existing low elevation armoring structures and homes. Habitats of particular value to the local nearshore system that may have been substantially impacted include forage fish spawning habitat. These habitat areas are only found in the upper intertidal portion of fine gravel and sand beaches, with a high percentage of 1-7 mm sediment (Penttila 1978). Forage fish are small, schooling fish that are key prey items for larger predatory fish, such as salmon, and other wildlife in a marine food web. In Puget Sound, forage fish species occupy every marine and estuarine nearshore habitat. Nearshore habitats are of special concern, because many species use them for spawning. Surf smelt (*Hypomesus pretiosus*) and Pacific sand lance (*Ammodytes hexapterus*) are commonly found within the nearshore zone of Pacific Northwest beaches (Penttila 2007). Surf smelt and sand lance spawning habitat areas are found in the upper intertidal portion of fine gravel and sand beaches, with a high percentage of 1-7 mm sediment (Penttila 1978).

Documented forage fish spawning occurs throughout Whatcom County (Figure 2). Most notable locations for surf smelt spawning beaches are along the entire west shore of Point Roberts, most of the Birch Point headland, along Birch Bay State Park, the beaches fronting Conoco Phillips, the east shore of the Lummi Peninsula, Little Squalicum Beach, and scattered throughout various locations along the Bellingham waterfront. Smaller patches of surf smelt spawning beaches have been mapped along the east side of the Point Roberts marina inlet, along Maple Beach, inside of Drayton Harbor, near the Lummi Island Ferry Landing, inside Chuckanut Bay and on the south side of Wildcat Cove in Larrabee State Park.

Sand lance spawning beaches have not been documented as thoroughly as surf smelt spawning beaches. Smaller patches of sand lance spawning beaches are mapped along Maple Beach, the tip of Semiahmoo Spit, inside Drayton Harbor, various locations along the Lummi Peninsula and Portage Island, at the Lummi Island Ferry Landing, Little Squalicum Beach, and a few locations along the Bellingham waterfront. To view a video of spawning sand lance along a Whidbey Island beach visit the website http://www.youtube.com/user/5thLifeProductions#p/a/u/0/vgjqtjDzP2E on the 5thLifeProduction's Channel.

GIS Analysis and Database Development

The goal of this project element was to identify coastal property owners in Whatcom County who owned property that contained a feeder bluff, a feeder bluff with a modification (shoreline armor), a beach with documented forage fish spawning, and/or a beach with documented forage fish spawning and a modification. This was the 'target audience' of this project and parcels were initially identified with a definition query of datasets in GIS analysis. These selected parcels and associated parcel data were copied into an excel spreadsheet for further data reduction. Publicly owned parcels were eliminated from the data set, most notably those owned by government, Land Trusts, Port entities, as well as large commercial companies. Several parcels meeting the criteria for targeted outreach had both a physical coastal address and a different owner address. For these parcels, both addresses were included in the database and both residences received a survey mailer.

Datasets

GIS Analysis Methods

Several datasets in the form of a GIS shapefile feature class (.shp format), were used to identify subject parcels targeted for outreach in this project. These shapefiles are listed below, followed by the source:

- Tax_Parcels.shp Whatcom County Tax Parcels from 1/7/11 (Whatcom County (WC))
- SZLINE_NAD83_SP-n.shp Shorezone Shoreline (WDNR)
- Wa_Counties_NAD83.shp polygons of county boundaries
- Lummi_Reservation.shp polygon of the Lummi Reservation boundary
- fd_shoreform_change PSNERP change analysis shoreform change data (PSNERP)
- fd_armoring PSNERP change analysis armoring data (PSNERP)
- WC_CGS_shoretype.shp CGS shoretype database for Whatcom County (CGS)
- Forage_Fish_Surveys.shp forage fish spawning mapping SalmonScape database (WDFW)

Parcel Processing

Parcels along the coast were selected out from the entire Whatcom County parcel shapefile. A parcel extrapolation tool was first used for efficient GIS cross-referencing of parcels and the shapefile datasets. This tool extended the waterward extent of parcels to encompass coastal features mapped along the Washington Dept. of Natural Resources (WDNR) high water shoreline, referred to as the Shorezone Shoreline (WDNR 2001). Shapefiles including data such as Washington Dept. of Fish and Wildlife (WDFW) forage fish spawning (2010), Puget Sound Nearshore Ecosystem Restoration Project (PSNERP; Simenstad et al. 2009), Coastal Geologic Services (Johannessen and Chase 2005), and Bauer (1974) shoretype mapping (feeder bluffs and armoring) were all mapped along the Shorezone Shoreline, and were key to identifying the target audience. Parcels found on the Lummi Nation were excluded from the coastal parcel shapefile, per the MRC/Lummi Nation's request.

The final step in GIS analysis was to use a 'definition query' to cross reference the coastal parcel shapefile with the other datasets. Definition queries were used to select Whatcom County coastal parcels that contained any of the criteria indicating the target audience, including: feeder bluffs and forage fish spawning areas both with and without shoreline armor. Notation was added as a field in the attribute table with "1" for presence or a "0" for absence of the criteria listed above. Parcels with a "1" in any of the four fields were selected and the information copied into an excel spreadsheet for further refinement of the target audience database.

Target Audience Database

The *Target Audience Database* is an excel spreadsheet created from GIS analysis. Further refinement, including elimination of large commercial parcels, several adjacent parcels owned by the same person, and parcels without address information, was done manually by using the filter feature in excel. Finally, parcel information was organized in such a way to include two addresses if necessary, one for the physical coastal property and one for the owner address if the two differed. A unique identifier code was added to each parcel entry to enable spatial analysis of survey responses. A 'U' and four digit number was assigned to assumed undeveloped parcels (these did not have a number associated with the physical coastal address) and 'D' and four digit number assigned to developed parcels, and were filtered in separate tabs of the *Target Audience Database* spreadsheet. These spreadsheets show raw parcel data and presence or absence of the target criteria (Table 1).

| Habitat/Feature Present | Number of parcels undeveloped | Number of parcels developed |
|-------------------------|-------------------------------|-----------------------------|
| Forage Fish (FF) | 42 | 272 |
| Feeder Bluff (FB) | 167 | 339 |
| Modified shore and FF | 33 | 313 |
| Modified shore and FB | 49 | 258 |
| Total | 291 | 1,182 |

Table 1. Presence of target criteria in developed and undeveloped parcels. Some parcels may have presence of more than one of the target criteria. Note the criteria data was not duplicated for parcels that received two mailings.

The developed and undeveloped raw data in the *Target Audience Database* was combined and formatted appropriately for final mailing distribution, which required extensive manipulation and corrections. The file was sent to Automated Mail Services (<u>http://www.amsdirectnw.com/contact/index.html</u>) who printed, prepared and distributed mailer surveys to the entire target audience database. The *Target Audience Database* and *Final Mailing* spreadsheets are included electronically as part of this report.

Survey Development and Results

The target audience was sent a mailer survey which included brief information about the Whatcom County Marine Resources Committee, an invitation to participate in the *"Living with the Coast"* workshops, and a request to complete a brief set of survey questions (Appendix 1). Content was developed by CGS along with Environmental Education Consulting Services' program assessment specialist. A link to an online Survey Monkey website, and a phone number were also included in the survey mailer, which recipients could use to register for the free workshops. Integrated into the online registration process through the Survey Monkey was an option to answer questions from the survey mailer in online format, and an option to answer 5 additional pre-workshop survey questions. The pre-workshop survey was designed to help incorporate target audience interests into workshop content and provide additional profile data of potential attendees. All responses to the mailer survey and the pre-workshop survey were entered into the *Master Survey Response* spreadsheet. The results of pre-workshop survey are discussed in greater detail in the *Pre-Workshop Survey* section.

Mailer Survey

The purpose of the mailer survey was to identify trends among coastal property owner concerns, values, perceived barriers and willingness to participate in workshops. A total of 1,239 mailers were sent to coastal property residents and owner addresses; including 159 to Canada. Four mailers were returned because the address did not exist or the owner had moved. As previously mentioned, property owners on the Lummi Nation Reservation were not included in this outreach project, had these property owners been included in the outreach project, a much larger quantity of mailers would have been distributed.

Survey questions addressed the length of residency, geographic location, attitudes (values and concerns), general interest and perceived barriers to attending a workshop. The draft survey mailer was sent out to the Education and Outreach subcommittee of the MRC as well as MRC staff and others closely involved with this project for feedback and editing.

Survey responses provided a wealth of information regarding owner demographics, values, concerns and what coastal property owners want to learn about their properties and coastal ecosystems. Due to the large volume of survey response data only the major findings are presented here, while individual

responses can be viewed electronically in both the *Master Survey Response* spreadsheet and the *Survey Response Analysis* spreadsheets (Appendix 2).

Response Rate

With 1,239 mailings sent out, only 4 were returned as undeliverable. In total, 59 people responded to the survey representing 5% of those that received the mailer. Thirty-three survey responses were received by mail, 18 survey responses were collected online, and 8 survey responses by phone. Some respondents chose multiple ways of responding, for instance calling and sending back the survey mailer or returning the mailer and also replying online. Of the total 59 respondents, 17 (29% of respondents) completed the pre-workshop survey questions from the Survey Monkey, which were intended to drive workshop content.

Duration and Status of Residence

Most respondents had lived at their property for 5 or more years (46 respondents, 92%). Every respondent who reported owning their property for less than 5 years indicated that they would attend the workshop. Fifty-one percent of the respondents were permanent residents, while 37% indicated they are only seasonal residents. Despite being seasonal residents, 8 of the 22 seasonal respondents (36%) indicated they would attend the workshop. The remaining seasonal respondents (14) indicated that they were interested in future workshops but would be out of town at the time of this workshop (Appendix 2).

Geographic Location

Spatial analysis of respondents showed the greatest response rate from the Birch Bay area (22 responses) followed by Semiahmoo (14 responses). Eight responses were received from Lummi and Eliza Islands. The remaining responses were equally distributed around the County (Chuckanut, Sandy Point and Point Roberts areas) (Figure 3).

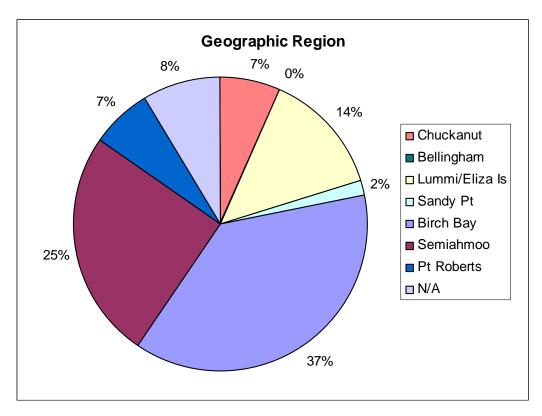


Figure 3. Pie chart exhibiting geographic distribution of respondents to the mailer survey.

Landowner Values and Concerns

Responses to the survey question '*what do you enjoy most about your coastal property*' were classified into property owner values. These values were then categorized into 'cultural values' as described in the a ranking matrix used by Puget Sound Nearshore Ecosystem Restoration Project (PSNERP) Nearshore Science Team to assess ecosystem functions, goods and services (In: *Historic Change and Impairment of Puget Sound Shorelines Technical Report,* Simenstad et al. 2009). Cultural categories in the Ecosystem Functions, Goods and Services ranking matrix include such categories as Ethical, Existence, Recreation, and Educational (Appendix 2). Survey results showed that the most common value among property owners was existence of the coastal environment (~90% responses; Figure 4). When asked what they value most about living on the shore the responses overwhelmingly referenced aesthetic and cultural values using the words quiet, beauty, view and privacy. Recreational values, such as walking, were also cited. Also valued within this group was the shore being a place to gather with family and friends. Fewer responses referenced the value of being close to nature and the natural world, with some specific responses mentioning birds, whales, shellfish and wildlife.

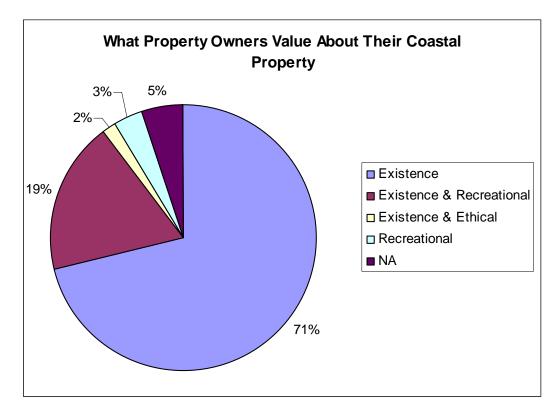


Figure 4. Pie chart exhibiting property owner's cultural values regarding their coastal property. Categories developed in *Historic Change and Impairment of Puget Sound Shorelines Technical Report,* Simenstad et al. 2009.

When asked to respond to the question '*what concerns you most about your property*' 38 respondents (49%) indicated that bluff management and/or armoring were their greatest concerns. Concerns regarding property rights and shoreline regulations represented 15% of respondents while 11% cited current events such as over-development, coal trains and ferry issues as their highest concern. Concerns over stormwater run off and general water quality represented 6% each of the responses. Two responses indicated concern over shoreline access and one respondent reported their greatest concern is flooding or inundation due to sea level rise (SLR) and climate change (CC) (Figure 5).

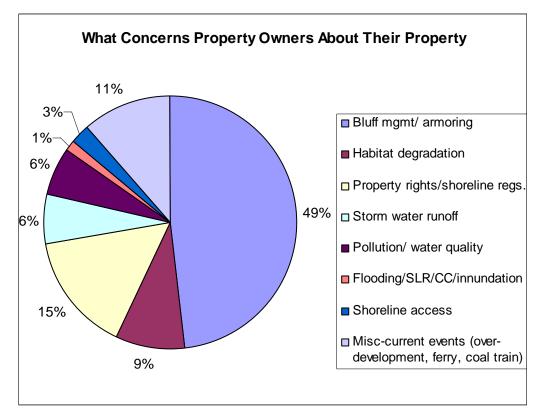


Figure 5. Pie chart exhibiting property owner's concerns regarding their coastal property.

An exploration of property owner concerns by geographic location showed variation among concerns. The greatest concern listed among all property owners was bluff management and armoring. The second greatest concern listed by property owners varied across the county. Secondary to bluff management, those from Birch Bay were also concerned with habitat degradation and property right and regulations. Semiahmoo residents were considerably more concerned with storm water runoff and drainage issues. Residents from Lummi and Eliza Islands, like those from Birch Bay, were more concerned with their property rights and regulations.

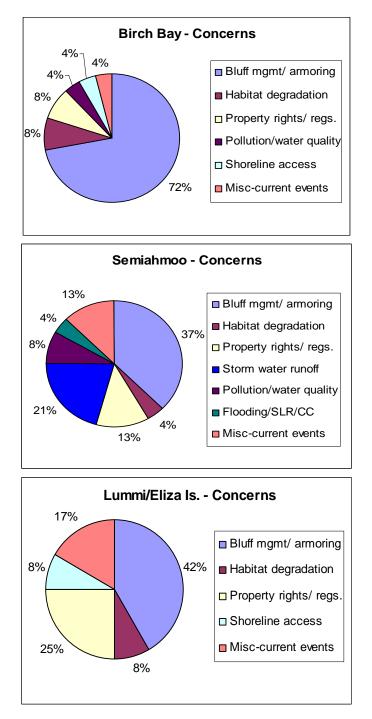


Figure 6. Coastal property owners concerns regarding their property sorted by geographic location.

Attitudes Toward "Living with the Coast" Workshops

Forty-three individuals (72% of respondents) signed up to attend the beach workshop, the bluffs workshop or both. Positive responses included the desire to learn about bluff erosion (22%), and habitat protection (7%) (Figure 7). Of the 16 respondents who indicated that they would not attend the workshop 13 responded that they were interested in attending but had other commitments or conflicts with the date. The remaining 3 respondents gave the following reasons for not attending: one indicated that they owned property but not a residence; one indicated that they had attended a similar previous workshop, and one indicated that they considered attending the workshop 'a waste of time'. Respondents' reasoning for attending or not attending the workshop is displayed in Figure 7 below.

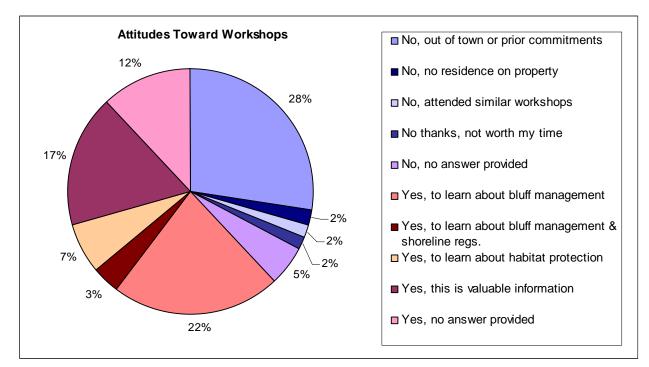


Figure 7. Pie chart exhibiting survey respondents' attitudes toward the 'Living with the Coast' workshop.

Survey Response Summary

Offering several ways for people to respond to the mailer survey was helpful in obtaining responses. The return mailer generated the most responses but additional information was gained by having the online pre-workshop survey questions.

The majority of people who returned surveys were those who expressed interest in workshops targeted to coastal property owners. Providing a positive response to the idea of these types of workshop opportunities was a significant motivator in responding to the survey.

Respondents who have owned their property for 5 years or less (4 responses) were unanimously enthusiastic about attending workshops of this type and expressed an eagerness to learn more about stewardship activities related to property management. These newer owners appear to be a receptive audience to the workshop outreach strategy. While longer-term owners were not unanimously interested in attending workshops there was still a high level of interest from this group of respondents.

While none of the respondents indicated that they would not attend this workshop because it was too far to travel, the largest number of respondents was from the area nearest to where the scheduled workshop was to take place. This suggests that workshop location impacts the interest level—the closer the location the higher the interest and participation from local landowners. No significant difference was apparent in workshop interest from seasonal versus permanent residents.

Cultural values are important to this group of coastal landowners. Ecosystem values are present but are viewed through a cultural value perspective. Interest in ecosystem benefits could be increased by linking them to enhanced cultural values.

Landowner concerns were in line with the anticipated workshop format and topics prior to receiving the responses, but responses did help shape fine points of the workshop content. The majority of respondents are motivated by a desire to learn more from experts about specific management activities that can be applied to their own property.

Pre-Workshop Survey

A second set of questions, referred to as pre-workshop survey questions, were used to survey individuals who contacted CGS via the online Survey Monkey link (Appendix 1). The purpose of the pre-workshop survey was to obtain feedback from potential participants to inform design of workshop content and to determine impacts from workshop participation.

Three of the pre-workshop survey questions were related to workshop participation: content, incentives to participate and barriers to participation. Two questions asked about interest in an expert site visit and whether the respondent was considering making any improvements to their property in the next 5 years. These questions were included in order to provide pre-workshop data to be used in comparison to post-workshop data to determine if workshop participation had measurable impacts toward motivating participants to take next steps to integrate stewardship practices into their property management.

Eight respondents indicated that they would be interested in an expert site visit in order to gain specific suggestions for property management. Four respondents indicated that they would possibly be interested depending on what they were able to learn from the workshop. Seven respondents indicated that they are planning to make improvements to their property within the next 5 years. One respondent indicated they

would potentially make improvements in that time and four respondents said they were not planning any improvements within the next 5 years.

When asked what they were interested in learning at the workshop, the greatest number of people by far indicated they wanted to learn more about coastal erosion control/bluff management. Responses indicated high interest in the use of vegetation to control erosion, shoreline regulations and stormwater management. Other responses included learning about what to be concerned about as a shoreline property owner and shoreline restoration and stewardship. Responses to this question were grouped and listed with quantity of these response categories:

- Bluff management (9)
- Vegetation for bluff management (5)
- Shoreline regulations (5)

- Shoreline protection/restoration (4)
- Stewardship (2)
- Stormwater management (1)

Respondents were asked about suggestions for incentives to improve the level of participation in educational workshops for private property owners regarding stewardship of shorelines. Access to experts and the opportunity to gain knowledge was the most common response. Other responses included improved environment and financial incentives such as tax breaks or being able to get reduced prices on plants/plantings for large group orders as a result of participation. One respondent suggested social marketing and that the creation of a strong network of concerned owners would inspire others to join the effort to learn and apply new knowledge to property management. Below is a bulleted list of responses to this question and the quantity of responses for each category:

- Obtain information (10) regarding: bluff mgmt, shoreline regulations, vegetation, or in general
- Speakers/Experts (5)
- Stewardship (3)
- Financial incentives (3)
- Location/timing, social marketing, desire to participate (received 1 each)

Barriers to participation in workshops like "Living with the Coast" include: location and other commitments (7 respondents) and working with government regulations (6 respondents). Other respondents answered that they did not know (3), that there are no barriers (2), or did not provide an answer to this question.

Workshop Development and Implementation

The workshop was designed to provide coastal property owners with a better understanding of marine resources including: coastal processes, bluff erosion management, forage fish habitat and how to reduce impacts to marine resources. A morning presentation, entitled "Healthy Beach Habitats", was presented by Dan Penttila of Salish Sea Biological. An afternoon presentation focused on "Bluff Erosion Management" and was presented by Jim Johannessen of Coastal Geologic Services. The presentations were followed by a beach walk or field trip that applied knowledge from both presentations. Information from the pre-workshop survey was incorporated into the presentation content.

Workshop Preparation

The "Living with the Coast" workshop was scheduled for Saturday, April 23rd, 2011 and was held at the Blaine Fire and Rescue Station 62 at 9001 Semiahmoo Parkway in Blaine, WA, in the Semiahmoo area. Many of the respondents lived in the north county and some from Canada so the Semiahmoo area was chosen for location. Beyond the direct mailing, fliers, media contacts, email announcement, and the MRC website were the main methods of informing the general public of the workshops (Appendix 3), as described below:.

<u>Fliers posted</u> - Fliers were posted around the Birch Bay and Blaine communities and distributed at the April MRC meeting. The C Shop, Bay Café, Birch Bay Teriyaki & Chinese Café, and the Market at Harborview. Stacks of fliers were left at the real estate offices in Birch Bay.

<u>Media contacts</u> - Local newspapers, including The Bellingham Herald, The Northern Light, All Points Bulletin, Whatcom Watch, and Cascadia Weekly were sent an announcement and description of the workshop. The Bellingham Herald and The Northern Light both ran the workshop announcement.

<u>Email announcement</u> - Email announcements were sent to all MRC staff for distribution, Ingrid Enschede of BBWARM, Cheryl Lovato-Niles of Shore Stewards, Wendy Steffensen, Doug Stark, and Matt Krogh of ReSources, Kathy Berg of Birch Bay Community Steering Committee, and the Cliffside Community.

<u>MRC website</u> - The MRC website homepage announced the workshops as an MRC sponsored event and included all relevant workshop information, the Survey Monkey link for registration, further details, and additional survey questions, and images of the presenters in the field.

Of the 31 attendees who signed in 23 heard about the workshop by mailer survey, 5 by newspaper (specifically The Bellingham Herald and The Northern Light), 1 attendee each had heard by mail, by flier, or by email. Workshop sign-in information is included in Appendix 3.

People who registered for the workshop via the Survey Monkey website or by calling were given priority seating. A total of 36 people were registered for the workshop. A confirmation email was sent out 3 days prior to the workshop to those who provided an email address to get a final count of workshop attendees and as a reminder of the workshop.

A workshop packet was provided to attendees and contained informational materials, some included based on feedback from the pre-workshop survey. A Workshop Agenda, Internet Sites resources page, information on an upcoming Green Shores for Homes program, and Shore Stewards brochure and sign-up were all included in the workshop packet (Appendix 3).

Workshop Content

Each presentation opened with a brief introduction of the MRC and the larger outreach project of which the workshop was a part. The MRC was emphasized as a citizen-based, non-regulatory group dedicated to working with the community to accomplish the goal of revitalizing and preserving marine life and habitats for future generations. Workshop organization and workshop packet were explained and we requested attendees to fill out workshop evaluations following the beach walk or following the presentation if not attending the beach walk.

Cheryl Lovato-Niles provided a brief summary of the Shore Stewards program following the presentation introduction. The partnership with Shore Stewards was helpful in both bringing citizens associated with Shore Stewards to the workshop and providing another platform for Shore Stewards to reach citizens. Six people signed up to become Shore Stewards at the workshop.

The *Healthy Beach Habitats* workshop was presented by Dan Penttila in the late morning. This presentation focused on forage fish, especially surf smelt and sand lance, as well as other species found on the beach, the beach as habitat, and forage fish spawning habitat as justification for increased shoreline regulations. Topics and organization can be view in the agenda (Appendix 3).

The *Bluff Erosion Management* workshop was presented by Jim Johannessen in the early afternoon. This presentation included background on coastal geology and bluff processes, proper drainage, vegetation to assist in erosion control, alternatives to shoreline armoring with site specific examples, shoreline regulations, permitting, and methods of erosion control, including example soft shore protection projects.

The *Beach Walk* portion of the workshop was scheduled as a joint field trip for both indoor workshops. The beach walk occurred in the afternoon at low tide. The beach walk began at the base of Semiahmoo Spit at Semiahmoo County Park. Attendees walked south along the beach to view forage fish spawning habitat, riparian vegetation, marine algae and other marine life, and landslides, groundwater seepage on bluffs, and armor burying habitat and exacerbating erosion. Ken Carrasco of the Whatcom MRC recorded footage of the beach walk for the MRC library.

Workshop Participation

A total of 36 people pre-registered for the workshop, including spouses or friends. Thirty-five people signed-in to the workshop (some signed-in jointly). A head count for each of the presentations revealed 20 attendees at the *Healthy Beach Habitats* presentation and 38 attendees at the *Bluff Erosion Management* presentation. Many attendees at the morning presentation stayed for the afternoon presentation and beach walk; however, it is uncertain exactly who or how many people stayed for only a portion of the workshop. Workshop evaluations were filled out by 20 attendees (again, some filled out jointly) following the beach walk.

Workshop Evaluation Summary Purpose

The post-workshop evaluation had the following purposes:

1. obtain contact information from participants in order to allow for follow-up outreach activities,

2. obtain profile data regarding geographic location, length of ownership, previous workshop attendance and concerns,

3. identify which aspects of the workshop were regarded as most valuable by the target audience,

4. compare pre and post workshop data to gage impact of workshop attendance and to assess interest in future stewardship activities,

5. identify specific individuals interested in future stewardship activities and offer recommendations for future stewardship activities based on participant feedback.

Methods

Workshop evaluations were designed to be easy to complete and administered as a culmination activity integrated into the program in order to obtain maximum return. A copy of the workshop evaluation survey is included in Appendix 3. Participants were given one-page printed evaluations at the end of the field trip and asked to complete them before departing. Clip boards and pencils were provided. Evaluations were collected and data was entered and initially analyzed by CGS staff. Tracie Johannessen, program assessment specialist, provided review and summary of pre-workshop survey data and post-workshop evaluation data.

Participant Profiles

Evaluation Results

Approximately 50 attendees were present at the workshops. In total 20 evaluations were returned (Appendix 4). Some attendees filled out evaluations jointly, while others did not fill out an evaluation at all.

All respondents were shoreline property owners; 8 were seasonal residents, 11 were permanent residents and 1 was the owner of an undeveloped property. Ten people attended both workshops; 10 attended only the bluff workshop. No respondents attended only the habitat workshop. Only 2 respondents reported having attended a similar workshop in the past.

Geographic representation of workshop attendees who returned an evaluation was strongest from the Birch Bay (11), Semiahmoo (5), and Blaine (3) areas. One person owned property on Eliza Island and was considering developing it in the next 5 years and 2 attendees owned property on Point Roberts. The workshop sign-in shows geographic representation of workshop attendees who did not return an evaluation (Appendix 3).

Workshop Feedback

When asked about their incentives for attending the workshop 100% of respondents said the opportunity to gain local knowledge. Main barriers cited for workshop attendance were available time/time conflicts and travel distance. A specific suggestion was given to conduct localized workshops in specific geographic areas such as Point Roberts and Lummi Island in order to get more local participation from these areas.

Participants in the healthy beach habitats workshop reported that the most valuable information they gained was about intertidal spawning, fish habitat, the relationship of bulkheads to habitat impacts. Several expressed a renewed interest in species and habitats.

Bluff erosion management workshop participants reported valuing several areas of content: detailed information on bluff dynamics and the erosional nature of bluffs, how to interpret bluffs, links between erosion and beach restoration and management, the importance of setbacks, and the use of vegetation planting to slow erosion. Ideas for additions to the bluffs workshop were: more information on vegetation, more local content through localized workshops, more information on available resources and using workshops to connect neighbors.

Several participants commented on the importance of the field element to the workshop for the purpose of demonstrating applied knowledge and for localizing the workshop content.

Stewardship Impacts

Post workshop evaluations reflect pre-workshop survey data regarding concerns with bluff and/or beach erosion being the most commonly cited concern.

Over half of workshop participants expressed interests in having an expert site visit as a result of attending the workshop. Those who expressed no interest reported concerns about cost as being the biggest barrier.

When asked if they would apply the information learned from the workshop into their property management activities all but 1 said yes. When asked to express interest in specific follow up activities related to improving stewardship, 14 (70%) respondents said they would be interested in attending future workshops of this type, 3 (15%) expressed interest in becoming shore stewards, 4 (20%) expressed interest in learning more about conservation on their property, and 4 (20%) expressed interest in potential restoration on their coastal property.

Next Steps and Recommendations

Future Outreach Activities

The overall approach to this targeted outreach effort can be repeated to measure the success and guide future outreach activities. In general future outreach activities should rely on the coastal property owner geodatabase to perform more localized outreach activities, offer incentives to attendants and address the specified concerns and reflect shoreline property owner values. The database took much effort to create and refine, and provides a great starting point for additional work, before it becomes obsolete due to the high turnover of coastal properties. The following specific recommendations are offered for future outreach activities to private shoreline property owners based on pre- and post-workshop survey content:

Database

Use the property owner database for additional data collection and future outreach. Keep the database updated and keep it circulating in the MRC subcommittees as to not lose sight of it.

Localized Outreach

Conduct localized workshops for shoreline property owners in specific geographic areas for residents of those areas. Specific areas recommended for future workshops include Point Roberts, Lummi Island, and Birch Bay. Include information about local geography, geology, issues and regulations pertinent to the area. Specifically, several coastal residents suggested holding smaller scale workshops in their neighborhoods. Two locations suggested for these smaller scale workshops are Point Roberts and along the west shore and Birch Bay, at Point Whitehorn. Due to the high number of seasonal Canadian coastal property owners at Point Roberts, one workshop attendee suggested that a summer workshop would capture the greatest audience there.

Lummi Nation Reservation shoreline property owners could be the focus for a *Living with the Coast* workshop, if permission were granted from the Tribal Government. This area is rich in forage fish spawning habitat sites and majority of the Lummi Peninsula is composed of feeder bluffs (Figure 2). The shorelines of the Lummi Peninsula and Sandy Point contain a considerable amount of shore armor, and property owners on Sandy Point are vulnerable to flooding and inundation from future sea level rise.

Outreach to Coastal Property Buyers

As every survey respondent who reported owning their property for less than 5 years indicated that they would attend the workshop, targeting new coastal property buyers for educational material and links to resources would be effort well spent. These folks are the most interested in both learning about their new property and also on appropriate management techniques. This is supported by pre-workshop survey responses, and also the experience of Jim Johannessen and also Friends of the San Juans. "Friends" regularly sends mailings to new buyers for this reason.

Incentives for Participation

Consider providing incentives for future workshop participation. Pre-workshop survey results suggest that workshop attendants were motivated to attend to learn from expert speakers, learning about financial incentives, stewardship, and increasing knowledge in areas related to the presentation topics. These responses are likely relevant to other workshop topics aimed at property owners.

Address Values and Concerns of Property Owners

Integrate activities aimed at understanding target audience values and concerns into all outreach activities in order to meet audience needs and increase the likelihood of participation. Data from the initial survey indicates that property owner values are largely social while property owner concerns largely focus around property integrity/value, regulations and costs of implementing improvements. Outreach activities should address concerns while making a link to enhanced social values that can result from good stewardship.

Follow Up with Survey Respondents

Several respondents expressed an interest in marine life or aesthetic, recreational activities related to the marine environment, restoration and conservation on their coastal property, and/or desire to participate in stewardship activities, as noted above in the *Survey Results* and *Evaluation Results* sections. Simple follow up actions with survey respondents and workshop participants over time can help keep interested parties engaged with the MRC. A 'thank you' email was sent to survey respondents and workshop attendees who provided an email address; those who provided an address were sent a 'thank you' letter for their interest and participation in this project. However, this is just the first step, below are recommendations on follow up actions to keep these people engaged with the MRC.

Interest in Marine Life

Follow up with those that expressed interest in marine life fits well with MRC goals. These respondents and workshop attendees could be added to the MRC events and email notification list to inform them of beach walks, local marine related events, and informative MRC presentations.

Best Stewardship Practices

The MRC should follow up with survey respondents and workshop attendees to see if they would like to take additional steps toward integrating best stewardship practices. This could be a future MRC project on a small budget or run through the Education and Outreach Subcommittee or the Shore Stewards program.

Restoration and/or Conservation Actions

Follow up with those indicating an interest in a site visit, restoration or conservation of their property, as this was the overarching goal of this targeted outreach project. The MRC should make every effort to maintain contact with these property owners and work with them to materialize this concept. Grant funding could be sought to provide experts to go to these properties and provide realistic evaluations of the restoration or conservation potential of the sites, and if appropriate, provide next steps for realizing these goals. This is also something done by Friends of the San Juans (www.sanjuans.org/).

Targeted Outreach for Future Projects

The approach of this targeted outreach strategy appears to be successful based on the survey responses from those that attended and did not attend the workshop. It is important that this approach be utilized for future projects that require a concentrated pool of citizens from the larger population. Below are some recommendations for using targeted outreach to initiate and activate potential MRC projects.

On Site Sewage Issues

On-site Sewage System (OSS) management has become a hot topic in Whatcom County politics recently. Leaking OSS is a significant water quality issue. Some owners of OSS have indicated they do not have the financial means and information to keep up their systems; some have resisted working

within the policy guidelines. The MRC could consider this targeted outreach approach to address these issues in a workshop for OSS owners with experts from Public Health, the septic inspection industry, and other stakeholders in regard to proper OSS management.

High Priority Nearshore Restoration Projects

Consider using this approach for the next 2 highest prioritized projects listed in the *Whatcom County Nearshore Habitat Restoration Prioritization* (MacLennan and Johannessen 2007). The first listed priority in Chuckanut Bay was removal of a parking lot from the upper beach and replacement of an under sized culvert for better connectivity of Chuckanut Marsh to Chuckanut Bay and has recently been implemented.

The second priority was to 'Hydrologically Reconnect the Wetland' at surf smelt spawning beach in Point Roberts just east of the marina entrance (page 11 and Figure 4 in 2007 report). This area is currently in private ownership, but by using targeted outreach and social marketing this high priority restoration project may some day become reality.

The third priority of the Whatcom County Nearshore Habitat Restoration Prioritization was the 'Sunset Beach Riprap Removal' at a community owned beach in Birch Bay Village (page 13 and Figure 5 in 2007 report). With targeted outreach residents of Birch Bay Village may be open to restoring or enhancing the beach, which could entail improving access, which would be beneficial both culturally and environmentally.

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ATTACHMENTS:

Figure 1. Whatcom County study area and parcel map. **Figure 2.** Documented forage fish spawning beaches in Whatcom County.

Appendix 1: Outreach MaterialsAppendix 2: Outreach ResponsesAppendix 3: Workshop MaterialsAppendix 4: Workshop Evaluations





APPENDIX 1: Outreach Materials

- Survey Mailer
 Survey Monkey & Pre-workshop Survey

Place postcard postage here. Marine Resources Committee C/o Coastal Geologic Services 1711 Ellis St., Suite 103 Bellingham, WA 98225 Marine Resources Committee C/o Coastal Geologic Services 1711 Ellis St., Suite 103 Bellingham, WA 98225 **Recipient Address** The Puget Sound is a beautiful place to live Is there a role for private property owners in the recovery of Puget Sound? YES! Can cost effective best management practices benefit your shoreline property value? Come to a FREE workshop to find out!

Appendix 1. Cover page and outside of Survey Mailer.

| . In which general area do you live?]Chuckanut 	Bellingham Lummi/Eliza Is. 	S . What do you enjoy most about your coastal pr | |
|--|--|
| pleting & returning this postcard <u>or</u> respond via the web a . Check the box that best characterizes you:] 0-2 yr resident 2-5 yr resident 5+ yr resider | ddress above. Thank you for your feedback. |
| Find workshop details, <i>RSVP</i> , and to provide feedba property owner visit the web address below <u>or</u> call 3 <u>http://www.surveymonkey.com/s/M2MXXJX</u> want your input! Help us learn more about the interests a | 60-647-1845. |
| coastal processes expert Jim Johannessen. Saturday, April 23 12:30 - 2:15 pm Beach Walk 2:30 - 4:30 pm | -Interact with your neighbors -See beach habitats and geologic processes |
| Beach Walk 2:30 - 4:30 pm Bluff erosion management presented by | -Ask questions -Learn about specific issues relevant to your shorelines |
| Healthy beach habitats presented by pioneering fish biologist Dan Penttila. Saturday, April 23 10:00 - 11:45 am | At this workshop you will: -Meet experts |
| Living with the Coas You are invited to a FREE workshop! Fie North Whatcom Fire and Rescue Station 62, 90 | ld trip included. April 23rd |
| Opportunities exist to assist property owners mana | 1 |
| protect and maintain | healthy shoreline properties. |
| coastal proprietation coastal coastal proprietation coastal propri | erty owners <u>and</u> provide the concern the |
| nakes up 95% of Whatcom | e MRC is conducting surveys tter understand the needs of |
| | e are committed to working with the esources for future generations. |

Appendix 1. Inside Survey Mailer.

| Living with the Coast Workshops-details and RSVP |
|--|
| 1. Workshop details and RSVP |
| The two workshops consist of a 1.75 hour presentation and a beach walk afterward. The workshops will be held at the North Whatcom Fire and Rescue Station #62 at 9001 Semiahmoo Pkwy, Blaine. The joint field trip following the second workshop will take place at Semiahmoo County Park at the base of the Spit. |
| Light snacks and refreshments will be provided. Lunch is on your own. Please bring rain gear and boots for the field trip. The workshops are free and open to the public. |
| The HEALTHY BEACH HABITATS workshop runs from 10:00 - 11:45 am on Saturday, April 23. If you have a broad beach and no or low bank and want tips on how to promote healthy marine ecosystems then consider attending this workshop. |
| The COASTAL BLUFF MANAGEMENT workshop runs from 12:30 - 2:15 pm on Saturday, April 23. If you live on a bluff, have experienced erosion, drainage, or vegetation issues and want to find ways to reduce impacts to your property then consider attending this workshop. |
| The BEACH WALK will cover subjects of both workshops and include plenty of opportunity to ask questions and see real-world examples. This will run from 2:30 - 4:30 pm. |
| We appreciate your interest in the 'Living with the Coast' Workshops. The *RSVP* option is below, those who *RSVP* will be given priority for seating at the workshop(s). Please call Stephanie at 360-647-1845 with any additional questions. |
| THE ONLINE VERSION OF THE MAILED SURVEY IS BELOW, following the RSVP. |
| Your input is important to us! 5 additional survey questions are on the NEXT PAGE. Feedback from these surveys will be incorporated into the workshops and further outreach programs to private property owners. |
| 1. To *RSVP* for either or both workshops please provide the following: |
| Phone # email Workshop (ie. Bluffs, Beaches, Both) 2. This section applies to those who preferred to answer the mailed survey questions online. If you have answered and returned the survey portion of the mailer, and wish to give us more valuable feedback please go to page 2 and answer 5 additional questions. We are grateful for your input. Check the box that best characterizes your residence: Length Status General Area |
| 0-2 year 2-5 year 5+ year permanent seasonal Chuckanut Bellingham Lummi Sandy Pt Birch Bay Semiahmoo resident resident resident resident seasonal Is/Eliza Is |
| 3. What do you enjoy most about your coastal property? |
| Next |

| 2. 5 Additional Questions for Coastal Property Owners Here is your opportunity to tell us your thoughts so we may better address your concerns at the workshop(s). 1. Would you be interested in an expert site visit or more information to help you improve management of your shoreline? 2. Are you considering making improvements to your shoreline property within the next 5 years? | Living with the Coast Workshops-details and RSVP | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| 1. Would you be interested in an expert site visit or more information to help you improve management of your shoreline? | 2. 5 Additional Questions for Coastal Property Owners | | | | | | | | |
| | Here is your opportunity to tell us your thoughts so we may better address your concerns at the workshop(s). | | | | | | | | |
| | | | | | | | | | |

| 3. What are you interested in learning at the work | shop? |
|--|-------|
|--|-------|

4. What are potential incentives to encourage participation of coastal property owners in workshops such as these?

Prev

Done

5. What are the perceived and real barriers to participation in workshops such as these?

Appendix 1. Survey Monkey and pre-workshop survey questions.

APPENDIX 2: Survey Results

- Master Survey Response Spreadsheet
- Survey Response Analysis Spreadsheet
- Ecosystem Functions, Goods and Services Ranking Matrix Table used to assess property owner values

| PROPERTY | OWNER IN | FORMATION | 1 | l. | SURVEY QU | ESTIONS | | 17-1 | 2 | | | | RSVP INFO | | T | |
|----------|-----------------------|--------------|---|---|--|------------------------|---------------------------|--|--|------------------------------------|---|--|--|---|---|--|
| ID code | mail, online phone | parcel no. | Return address | Name & address-coastal property | Demographic 1a. Length ownership | | 2. Geographic location | Values 3. What do you enjoy about property | Concerns 4. What concerns you most about property | Workshop 5a. Attending workshop | | 5c. Inform of future wrkshps | RSVP | Workshop RSVP | name & address-online | a Phone |
| | M | | SCOTT D & MAUREEN EVANS 1457 130TH AVE NE | | | | | | | | | | | | | |
| U0193 | м | 370232274044 | BELLEVUE, WA 98005 D&P HARDMAN 8505 DOUBLE DITCH | Undeveloped-no address | 5+ | seasonal | Lummi/Eliza Is | privacy, views | government regulations (county & state) | No | out of town | - | | | | - |
| U0117 | м | 370110120327 | LYNDEN, WA 98264 LINDA K RISING | Undeveloped-no address | 5+ | seasonal | Lummi/Eliza Is | accessing beach | availability of water & ferry transportation | No | we own property but not housing | | | | | - |
| D0814 | м | 405116552209 | 8624 SEMIAHMOO DR. BLAINE, WA 98230-9314 | Same Richare I Richardson Trust | 5+ | permanent | Semiahmoo | peace, quiet, beauty, view | high bank stability | No | have attended previous workshops | - | | | | |
| D0807 | м | 370225442408 | | 807 Chuckanut Shore Rd Bellingham, WA 98229 | 5+ | permanent | Chuckanut | using it | various groups keeping me from using it | No | | - | | | | |
| D0222 | м | 400131016323 | DEANE & SUSAN SANDELL 4148 COUGAR RD. BELLLINGHAM. WA 98225 | Deane & Susan Sandell 7513 Birch Bay Dr Blaine, WA 98230 | 5+ | seasonal | Birch Bay | sunsets, gathering place for family & friends | population increase, pollution | Maybe | other commitments | _ | Maybe | 1 | | |
| | | | PIKE 15512 93RD PL NE | Richard H & Kay D Pike 8803 Semiahmoo Dr | | | | | | | | | | | | |
| D0804 | М | 405115155439 | BOTHELL, WA 98011 JAMES THOMSON 1706 40TH ST | Blaine, WA 98230 | 5+ | seasonal | Semiahmoo | views/beach and crabbing/clamming | Freshwater run off/health of the beach increased restrictions that might prevent | No | out of town | - | | | | - |
| U0039 | м | 405110380140 | BELLINGHAM, WA 98229 STEVEN P. HARMON | Undeveloped-no address | 5+ | | Semiahmoo | veiws, immediate acces to beach | me from building my home | No | out of town | Yes | | | | |
| D0928 | м | 405113413297 | 4985 DRAYTON HARBOR RD BLAINE, WA 98230 SENOV | Same Paula & Penny L Senov | 5+ | permanent | Semiahmoo | view of mountians, the harbor when the tide is in | new planned development, not planned a all erosion, chemical lawn products, run off | No | out of town thank you for providing workshops! | - | | | | |
| D0735 | м | 405110414195 | | 9045 Shearwater Rd Blaine, WA 98230 | 5+ | permanent | Semiahmoo | the views, sunsets, wildlife, walking o beach | | Yes | We need all the professional help we can get | - | Yes | 1 | | |
| | | | THOMAS 5733 NAKAT WAY | | | | | | | | to get input about slowing the | | | | | |
| D0949 | м | 405127515441 | BLAINE, WA 98230 HOWARD FURST PO BOX 4026 | Same Howard Furst 1185 Chuckanut Dr | 0-2 | permanent | Birch Bay | open views & walking on the beach | bluff erosion (upper Birch Bay Village) | Yes | erosion process | - | Yes | 1 | | - |
| D0416 | М | 370224450410 | BELLINGHAM, WA 98227 HULSE | Bellingham, WA 98229 | 5+ | permanent | Chuckanut | the starfishes | pirate attack! lack of respect for private proerty by | Yes | sounds valuable | - | Yes | 1 | | |
| D0423 | м | 395102137076 | 6909 & 6911 HOLEMAN AVE BLAINE, WA 98230 DICK PETERSON | Same Dick A & Linda J Peterson | 5+ | permanent | Birch Bay | freedom of unconfined spaces | visitors who do not understand the environment | Yes | | | Yes | 1 | | |
| D0240 | M/P | 405110466388 | PO BOX 1722 SAN MATEO, CA 94401 | 9165 Great Blue Heron Blaine, WA 98230 | 2-5 | permanent | Semiahmoo | view | erosion | Yes | - | | Yes | Both 1 | | |
| U0186 | | 370232254161 | HAL THURSTON & MARY SWENSOI 2662 DONOVAN AVE. BELLINGHAM, WA 98225 | Undeveloped-no address | 5+ | | Lummi/Cline In | peace, beauty, simplicity | island over development, tree loss, bank erosion, eelgrass loss | Ne | out of town | Yes | | | | |
| 00100 | IM | 3/0232234161 | K JONES & F WITHERS 3795 CONSTITUTION RD. | Undeveloped-no address | 5+ | seasonal | | view, being away from the confines of | f | NO | | Tes | | | | |
| D0307 | М | 370109450194 | LUMMI ISLAND, WA 98262 MAPLE BEACH HOUSE LLC | Same | - | | Lummi/Eliza Is | the city the everchanging scene out our | bank erosion the erosion of our beach because of the seawall design needs fingers to protect | No | other commitments | | | | | |
| D0633 | м | 415335542200 | 51 BAY VIEW DR POINT ROBERTS, WA 98281 BAILEY TRUST | Same Bailey Trust | 5+ | permanent | Pt Roberts | window, swimming, fresh air | the wall and road | No | - | - | | | | |
| D0058 | м | 370116505393 | 805 MEDFORD PL VENTURA, CA 93004 | 1501 S Nugent Rd Lummi Island WA 98262 | 5+ | permanent | Lummi/Eliza Is | scenic view, beach | bank erosion | No | out of town | - | | | Kan Daltan 6000 | |
| D0826 | M/P | 395102234058 | ROB&EVELYNE c/o KEN DALTON 526 KELLY ST NEW WESTMINSTER, BC V3L 3V2 | Robert&Evelyne Dalton c/o Ken Dalto 6939 Holeman Ave Blaine, WA 98230 | 5+ | permanent | Birch Bay | view | bank erosion | Yes | more information | - | Yes | Bluffs 1 | Ken Dalton, 6939 Holeman Ave, Blaine, WA 98230 | 360-922-0197 |
| | | | E KELLIE RYAN 1413 EDWARDS DR | | | | | | property tax value reflect property use Too high. Illegeal over-regulation by | | | | | | | 0.01 |
| D0276 | М | 405310010255 | PT ROBERTS, WA 98262 CAROL & DAVE DUFFY 13518 178 AVE SE | Same | 5+ | permanent | Pt Roberts | being left alone | County Planning/Shorelines | No | waste of time | - | | | | + |
| U0043 | м | 405110346096 | RENTON, WA 98059 JANET & LARRY LUTZ SMITH | Undeveloped-no address | 5+ | seasonal | Semiahmoo | sunsets | neighbor above hillside soapsuds in gray water comes onto beach | Yes | - | - | | 1 | | + |
| D0581 | м | 370109318391 | 3873 LEGOE BAY RD LUMMI ISLAND, WA 98262 DAN SANFORD | Same Dan Sanford | 5+ | permanent | Lummi/Eliza Is | the view | erosion and safe access by boat | Yes | information and people | - | Yes | 1 | | |
| D0875 | м | 405136576232 | PO BOX 544 LYNDEN, WA 98264 | Dan Sanford 7461 Birch Bay Dr Blaine, WA 98230 | 5+ | seasonal | Birch Bay | ever-changing tides, privacy, tideflats "warm" water | , erosion and land use restrictions | Yes | bluff erosion management | - | Yes | Bluffs 1 | Dan Sanford, PO Box 544, Lynden, WA 9826 | 34 |
| U0100 | м | | JACK H DAVIE 3524 N WOODLAND DR MOUNT VERNON, WA 98274 | | | | | | erosion on 100 ft high bluff, base | No | | | No | | | 1 |
| 00100 | м | 395111145350 | RICK F GRANGER PO BOX 4 | Undeveloped-no address | | seasonal | Birch Bay | view, walking the beach, clam digging | waashing away | No | other commitments, funeral | - | No | | | - |
| U0112 | М | 370109566520 | LUMMI ISLAND, WA 98262 DIANA K ALSPACI | Undeveloped-no address Diana K Alspach | 5+ | permanent | Lummi/Eliza Is | life | views | No | | - | No | | | |
| D0033 | м | 405309480528 | 229 FOURTH AVE NEW WESTMINSTER, BC V3L 1N5 JUILLET FRANCISCC | 649 Freeman Blaine, WA 98230 | 5+ | seasonal | Pt Roberts | Natrue and sealife is wonderful- fascinating | responsible management | No | would like ot in the future, if not too distant (a conflict this time) | Yes | No | | | |
| U0078 | м | 405122007061 | 14487 LOMBARD PL SURREY, BC V3X 1B4 | Undeveloped-no address | 5+ | seasonal | Birch Bay | View, peace, solitude | bluff erosion | No | previous engagement | | | | | |
| D0915 | м | 405304467004 | 205-1258 HUNTER RD | Wendy Sotved 595 Marine Dr Pt Roberts, WA 98262 | 5+ | seasonal | Pt Roberts | wildlife-whales, seals, view, quiet | the noticeable increase in seaweeds, iellvfish, musky water | No | visitors staving for Easter weekend | | | - | | |
| | 191 | | DELTA, BC V4L 1Y8 KATHIE CALANDR/ 267 WYNDHAM DR | Gary & Kathie L Calandra 9115 Great Blue Heron Ln | 54 | | | fabulous sunsets, the eagles and blue | people cutting trees for view that causes | | visitors staying for Easter weekend out of town, will be arriving in mid | | 1 | | | |
| D0321 | М | 405110402273 | CRESCO, PA 18326 HOFFMAN 1150 PARADISE RD | Blaine, WA 98230 | 5+ | seasonal | Semiahmoo | herons in the trees | erosion of the bank having property rights taken away withou | No | May further my knowledge about | | | | | + |
| U0151 | м | 370232192443 | FERNDALE, WA 98248 SANDRA ABERNATH' | Undeveloped-no address | 5+ | seasonal | Lummi/Eliza Is | the get away from it feeling | having property rights taken away withou fair compensation | t Yes | shorelines | | | | SANDRA ABERNATH | Y |
| D0831 | M/O | 395102126079 | 6905 HOLEMAN AVE BLAINE, WA 98230 | Same | 5+ | permanent | Birch Bay | view, wildlife, clean air | bluff erosion | Yes | | - | Yes | Both 2 | 6905 HOLEMAN AVE BLAINE, WA 98230 | 360-371-5794 |
| D0098 | M/O | 405115203470 | BRIAN & BERNIECE PIWEK 8831 OERTEL DR BLAINE, WA 98230 | Same | 5+ | permanent | Semiahmoo | natural setting, peace & quiet | bluff stabilization | Yes | bluff erosion | _ | Yes | Bluffs 2 | Brian and Berniece Piwek 8831 Oertel Dr Blaine | 360-393-4584 |
| | 0 | | | | | permanent permanent | Semiahmoo Birch Bay | views beach, birds, clams, crabs, view, | erosion, tsunami discarded junk on beach | Yes No | other commitments | | Yes | Both 2 | John and Naomi | 360-220-4048 |
| | 0 | | KAREN CARLSON 2220 MONTFORT AVE | | 5+ | permanent | Birch Bay | view wildlife view of water, quiet, private | erosion of the bluff Eorison, public traffic & unauthorized parking on my property. New laws | No | out of town learn about bluff management, and laws and regulations in regard to | Yes | No | | Karen Carlson, 2220 | - |
| D0139 | 0 | 400107241543 | BLAINE, WA 98230 MARGARET MELTON | Same | 5+ | permanent | Semiahmoo | neighborhood road, nature, space | forbidding building on my property; I pay | Yes | building on my property | - | Yes | Bluffs 1 | Montfort Ave, Blaine | 360-332-6604 |
| | 0 | | 4247 SUCIA DR FERNDALE, WA 98248 | | 5+ | permanent | Sandy Pt | Ever changing, restful | Indians, beach rights, erosion, new deep water port at Cherry Pt | Yes | want to learn more | - | Yes | Both 1 | Margaret Melton | 360-933-4942 |
| | o | | DAN MAUS 6889 HOLEMAN AVE BLAINE, WA 98230 | | 5+ | | | the beach and the views | bank/bluff management | Yes | learn more about bank/bluff management | _ | Yes | Bluffs 1 | Dan Maus | 206-714-8900 |
| | 0 | | MARK GASCON PO BOX 1067 | | | | | | buneben management | 100 | management | | 105 | | | 360-384-4254 |
| | 0 | | FERNDALE, WA JANE & BRUCE MONTEGANI | | 5+ | | | view, walks view, peacefulness, birds and other | erosion | Yes | erosion | | Yes | Both 1 | Mark Gascon | x2 |
| D0110 | 0 | 395102094089 | 6893 HOLEMAN AVE BLAINE, WA 98230 LOUINDA & BUDD CHURCHWARD | Same | 5+ | permanent | Birch Bay | wildlife, walks on beach at low tide, summer sunsets | bluff erosion and losing my stairs to the beach potential erosion of beach because of | Yes | learn more about how to protect my bank from excess erosion | - | Yes | Bluffs 2 | Jane and Bruce Montegani Loulinda & Budd | 360-371-0403 |
| | o | | 8234 BIRCH BAY DR BLAINE, WA 98230 | Same | 5+ | permanent | Birch Bay | ever changing vistas, depending on weather, tides, and seasons | some neighbor's attempts to improve the property, interrupting ecosystems in place | Yes | want to know if I am doing everythin I can to preserve | - | Yes | Both 2 | Churchward, 8234 Birch Bay Dr., Blaine | |
| | | | | | | | | | log home's structure with current heavy freight train traffic on the BNSF tracks, th | | | | | | Ken Kaliher and Mary | |
| | 0 | | KEN KALIHER & MARY MOONEY 1207 CHUCKANUT DR BELLINGHAM, WA 98229 | Same | 0-2 | permanent | Chuckanut | the views, hosting friends on our decl | prospect heavier rail traffic if the Cherry Point port facility are realized as | Voc | to learn more about issues affecting our coastal property | | Yes | Both 1 | Mooney 1207 Chuckanut Drive, Rollingham, WA 08220 | 9 360-734-2096 |
| | 0 | | RHYON CLADWELL 429 BLUFF RD | Jane | 0-2 | permanent | Chuckanut | The peace and quiet, the sound of the | | 165 | our coastar property | | 105 | Dout | Bellingham, WA 98229 Mr. Rhyon Caldwell 42 Bluff Road, Point | |
| | 0 | - | PT ROBERTS, WA | | 5+ | seasonal | | wildlife | beach loss. erosion from storm water above, too | No | out of town | Yes | No | | Roberts, WA | 604-505-0223 |
| | | | KEATS & GAIL GARMAN 8710 OERTEL DR. | | | | | views birds crabbing boost well | much development that adds to storm water runoff, lack of effective downstream infrastructure which results in flooding/ | 1 | Highly relevant to residents here maybe we can share info with those | | | | Keats and Gail Garma 8710 Oertel Dr. Blanie | n |
| | 0 | | 8710 OERTEL DR. BLAINE, WA 98230 | Same | 5+ | permanent | Semiahmoo | quiet | loss of high bluff property. | Yes | maybe we can share into with those unable to attend | Yes | Yes | Both 2 | 8710 Oertel Dr. Blanie. WA | , 360-371-3554 |
| | | | | | | | | I'm a Chicago-native, so my husband & I would like to learn everything we | | | | | | | Maket M. | |
| | 0 | | MICHELE VOLPP RODRIGUEZ 5566 HAIDA WAY BLAINE, WA 98230 | Same | 0-2 | permanent | Birch Bay | can while we are here to teach our young girls to take care of our ocean, beaches and community. | want to learn more | Yes | | | Yes | Beaches 2 | Michele Volpp Rodriguez, 5566 Haida Way, Blaine, WA 9823 | 3 |
| | | | BEVAN WILSON 8997 SEMIAHMOO DR | | | | | | massive increase in run-off over the last | | Landslides are becoming more and | | | | Bevan Wilson, 8997 | |
| | 0 | - | BLAINE, WA 98230 KEN SHANNON | | 5+ | seasonal | Semiahmoo | Waterfront living | 15 years | Yes | more frequently | - | Yes | Bluffs 1 | Semiahmoo Drive | 604-318-9399 |
| | 0 | | 5697 NAKAT WAY BLAINE, WA 98230 BERNARD & ELAINE KLOP | Bernard & Elaine Klop | | seasonal | Birch Bay | Connection with the outdoors that provides relaxation. | Bluff erosion | Yes | management strategies that meet | - | Yes | Bluffs 1 | Ken Shannon | 360-371-4118 |
| D0074 | 0 | 395102071082 | 9545 GIBSON RD CHILLIWACK, BC V2P 6H4 | 5751 Nakat Way Blaine, WA 98230 | 2-5 | seasonal | Birch Bay | views and sounds of the ocean | bluff erosion and soil loss due to waves | Yes | gov't/environmental/ecological approval. | - | Yes | Bluffs 2 | Bernard & Elaine Klop | 604-792-8088 |
| _ | 0 | | LYNN ROSE 5519 MAPLE WAY BLAINE, WA 98230 | | 0-2 | | | | | Yes | first time coastal property owner, | | Yes | Both 1 | Lvnn Rose | 360-393-4562 |
| | | 1 | BONNE ANDREWS 5727 NAKAT WAY | | | | Birch Bay | The funny seals and majestic eagles | | | wants to protect it | | | | | |
| | 0 | | BLAINE, WA 98230 TONY AIELLO | Same | 5+ | permanent | Birch Bay | the connection of earth and sea | bluff stability | Yes | Latest info, new ideas | - | Yes | Bluffs 1 | Bonne Andrews | 360-305-4246 |
| | Р | | 8979 SEMIAHMOO DR BLAINE, WA 98230 CAROL RICE | Same | 5+ | permanent | Semiahmoo | | | Yes | learn about bluff management | | Yes | Both 1 | | + |
| | Р | | 5751 NAKAT WAY BLAINE, WA 98230 | Same | 5+ | permanent | Birch Bay | view, wildlife | erosion of bank | Yes | protection of habitat | - | Yes | Both 1 | | 360-371-5507 |
| | P | | NANCY HOBBERLIN 5670 SANDERLING WAY BLAINE, WA 98230 | | | | | | | Vor | wants to learn more, does not live | | V | Both | | |
| | | | DONNA PROCTER PO Box 2236 | | | | | | | Yes | on the shoreline | - | Yes | Both 1 | | |
| | Р | | BLAINE, WA 98230 BECKY AND JOHN CHAN | | 5+ | seasonal | Birch Bay | veiw, tranquility, water | erosion, wet clay? | Yes | learn more about bluff erosion | - | Yes | Bluffs 1 | Donna Procter | + |
| U0013 | P/M | 405301138316 | 2-2629 CEDAR PARK PL ABBOTSFORD, BC V2T 3S4 FRYTH & JIM RASAR | Undeveloped-no address | 5+ | seasonal | Semiahmoo | natural setting | erosion | Yes | learn more about bluff erosion | - | Yes | Both 2 | Becky Chan & Whinne | y 604-807-2020 |
| | Р | | 8985 SEMIAHMOO DR BLAINE, WA 98230 | Same | 5+ | permanent | Birch Bay | view | bluff erosion | Yes | wants to learn more about bluff erosion | - | Yes | Bluffs 2 | Fryth & Roger Raser | 360-371-8121 |
| DOF22 | | 205102000 | ANDY KEAY 530 EBERT AVE | Andy Keay 6895 Holeman Ave | | | | view water | | | wants to learn more about bluff | | | | | |
| D0539 | Р | 395102099089 | COQUITLUM, BC V3J 2L2 BRIAN MCKNIGHT 397 W BLUFF RD | Blaine, WA 98230 | 5+ | seasonal | Birch Bay | view, water | erosion on bank | Yes | erosion | - | Yes | Bluffs 2 | Andy Keay | + |
| | Р | - | PT ROBERTS, WA 98281 LORI POND | Lori Pond | | | | | | | | | Yes | Both 1 | Brian McKnight | 604-377-7353 |
| U0137 | Р | 370213017397 | PO BOX 2213 PORT ANGELES, WA 98362 | 0 Tidelands Bellingham, WA 98229 | 5+ | seasonal | Chuckanut | unique, family owned tidelands | potential value of tideland plot | Yes | learn about healthy beaches | - | Yes | Beaches 1 | Lori Pond | 360-460-4868 |
| D0783 | Р | 405116484061 | | Ron Sangara 8539 Semiahmoo Dr Blaine, WA 98230 | 5+ | seasonal | Birch Bay | view | erosion | Yes | learn about erosion | _ | Yes | Bluffs 1 | Ron Sangara | |
| D0783 | P | 405116484061 | LORI POND PO BOX 2213 PORT ANGELES, WA 98362 RANJEET & JASWINDER SANGARA 7271 BRIDGE ST | 0 Tidelands Bellingham, WA 98229 Ron Sangara 8539 Semiahmoo Dr Blaine, WA 98230 | for cor | 5+ | 5+ seasonal | 5+ seasonal Birch Bay | 5+ seasonal Birch Bay view | 5+ seasonal Birch Bay view erosion | 5+ seasonal Birch Bay view erosion Yes | 5+ seasonal Birch Bay view erosion Yes fearn about erosion | 5+ seasonal Birch Bay view erosion Yes learn about erosion - | 5+ seasonal Chuckanut unique, family owned tidelands potential value of tideland plot Yes learn about healthy beaches Yes 5+ seasonal Brich Bay view erosion Yes learn about notion Yes | 5+ seasonal Chuckanut unique, family owned tidelands potential value of tideland plot Yes leam about healthy beaches Yes Beaches 1 5+ seasonal Birch Bay view erosion Yes leam about healthy beaches Yes Bluffs 1 | 5+ seasonal Chuckanut unique, family owned tidelands potential value of tideland plot Yes leam about healthy beaches Yes Beaches 1 Lori Pond 5+ seasonal Brich Bay view erosion Yes leam about rotsion Yes Buffs 1 Ron Sangara |

| | NER INFORMATIC | NC | SURVEY QUES | TIONS | | | | | | | | | | | | | | | | | |
|--------------------|---|---|---|---|--|---|---|--|--------------------------------------|-------------|------------------|-------------------------------|------------------|---------------|-----------|------------------------|--|--|--|--|---------------|
| | | | Demographic | | | Values | Cultural | Concerns | Categories | | | | | | | | Workshop | | | | |
| | | | 1a. Length | 1b. Status | | | | | Bluff mgmt/ | Habitat | Property rights/ | Storm water | Pollution/ water | | Shoreline | Misc-current | 5a. Attending | | | | 5c. Inform of |
| ID code r U0193 | mail, online, phone M | a parcel no. 370232274044 | ownership 5+ | residency seasonal | 2. Geographic location Lummi/Eliza Is | 3. What do you enjoy about property privacy, views | Existence | 4. What concerns you most about property government regulations (county & state) | armoring | degradation | shoreline regs. | runoff | quality | C/innundation | access | events (over- | workshop No | 5b. Why/why not attending workshop? out of town | NO-categories out of town, prior commitments | YES-categories | future wksp |
| U0117 | M | 370110120327 | 5+ | seasonal | Lummi/Eliza Is | accessing beach | Rec | availability of water & ferry transportation | | | | | | | | 1 | No | we own property but not housing | no residence on property | | - |
| D0814 | М | 405116552209 | 5+ | permanent | Semiahmoo | peace, quiet, beauty, view | Existence | high bank stability | 1 | | | | | | | | No | have attended previous workshops | already attended similar wksp | | |
| D0807 | M | 370225442408 | 5+ | permanent | Chuckanut | using it | Rec | various groups keeping me from using it | | | 1 | | | | | | No | | NA | | |
| D0222 D0804 | M | 400131016323 405115155439 | 5+ 5+ | seasonal seasonal | Birch Bay Semiahmoo | sunsets, gathering place for family & friends views/beach and crabbing/clamming | Existence, Rec Existence, Rec | population increase, pollution Freshwater run off/health of the beach | - | 1 | | 1 | 1 | | | 1 | No No | other commitments out of town | out of town, prior commitments | | |
| D0804 | IVI | 403113133439 | JT | Seasonai | Semiannoo | views/beach and crabbing/claimining | Existence, itec | increased restrictions that might prevent me from | 1 | | | | | | | | INU | | out of town, prior commitments | | |
| U0039 | М | 405110380140 | 5+ | | Semiahmoo | veiws, immediate acces to beach | Existence, Rec | building my home | | | 1 | | | | | | No | out of town | out of town, prior commitments | | Yes |
| | | | _ | | | view of mountians, the harbor when the tide | | | | | | | | | | | | | | | |
| D0928 | М | 405113413297 | 5+ | permanent | Semiahmoo | is in the views, sunsets, wildlife, walking on | Existence | new planned development, not planned at all erosion, chemical lawn products, run off from | | | | | | | | 1 | No | out of town thank you for providing workshops! We need all the | out of town, prior commitments | | |
| D0735 | м | 405110414195 | 5+ | permanent | Semiahmoo | beach | Existence, Rec | residents into ocean, building setbacks | 1 | | 1 | 1 | 1 | | | | Yes | professional help we can get | | valuable info | |
| D0949 | М | 405127515441 | 0-2 | permanent | Birch Bay | open views & walking on the beach | Existence, Rec | bluff erosion (upper Birch Bay Village) | 1 | | | | | | | | Yes | to get input about slowing the erosion process | | learn about bluff erosion | |
| D0416 | М | 370224450410 | 5+ | permanent | Chuckanut | the starfishes | Existence | pirate attack! | | | | | | | | 1 | Yes | sounds valuable | | valuable info | |
| D0423 | м | 395102137076 | 5+ | permanent | Birch Bay | freedom of unconfined spaces | Existence | lack of respect for private property by visitors who do not understand the environment | D | 1 | 4 | | | | | | Yes | | | NA | |
| D0240 | M/P | 405110466388 | 2-5 | permanent | Semiahmoo | view | Existence | erosion | 1 | | | | | | | | Yes | | | NA | |
| | | | | | | | | island over development, tree loss, bank erosion, | , | | | | | | | | | | | | |
| U0186 | М | 370232254161 | 5+ | seasonal | Lummi/Eliza Is | peace, beauty, simplicity | Existence | eelgrass loss | 1 | 1 | | | | | | 1 | No | out of town | out of town, prior commitments | | Yes |
| D0307 | м | 370109450194 | | | Lummi/Eliza Is | view being every from confines of the sity | Existence | bank erosion | 1 | | | | | | | | No | other commitments | | | |
| D0307 | IVI | 370109450194 | | | Lummi/Eliza is | view, being away from confines of the city the everchanging scene out our window, | EXISTENCE | the erosion of our beach because of the seawall | | | | | | | | | INU | ouler communents | out of town, prior commitments | | |
| D0633 | м | 415335542200 | 5+ | permanent | Pt Roberts | swimming, fresh air | Existence, Rec | design needs fingers to protect the wall and road | 1 | | | | | | | | No | | NA | | |
| D0058 | М | 370116505393 | 5+ | permanent | Lummi/Eliza Is | scenic view, beach | Existence | bank erosion | 1 | | | | | | | | No | out of town | out of town, prior commitments | | |
| D0826 | M/P | 395102234058 | 5+ | permanent | Birch Bay | view | Existence | bank erosion | 1 | | | | | | | | Yes | more information | | valuable info | |
| | | | | | | | | property tax value reflect property use! Too high. Illegeal over-regulation by County | | | | | | | | | | | | | |
| D0276 | м | 405310010255 | 5+ | permanent | Pt Roberts | being left alone | Existence | Planning/Shorelines | | | 1 | | | | | | No | waste of time | no thanks, not worth my time | | |
| | | | | | | | | neighbor above hillside soapsuds in gray water | | | | | | | | | | | | | |
| U0043 | М | 405110346096 | 5+ | seasonal | Semiahmoo | sunsets | Existence | comes onto beach | | | | 1 | 1 | | | | Yes | | | NA | |
| D0581 | М | 370109318391 | 5+ | permanent | Lummi/Eliza Is | the view | Existence | erosion and safe access by boat | 1 | | | | | | 1 | | Yes | information and people | | valuable info | |
| D0875 | м | 405136576232 | 5+ | seasonal | Birch Bay | ever-changing tides, privacy, tideflats, "warm" water | Existence | erosion and land use restrictions | 1 | | 1 | | | | | | Yes | bluff erosion management | | learn about bluff erosion | |
| U0100 | M | 395111145350 | | seasonal | Birch Bay | view, walking the beach, clam digging | Existence, Rec | erosion on 100 ft high bluff, base washing away | 1 | | | | | | | | No | other commitments, funeral | out of town, prior commitments | | |
| U0112 | M | 370109566520 | 5+ | permanent | Lummi/Eliza Is | life | Existence | views | 1 | | 1 | | | | | | No | | NA | | |
| D0033 | М | 405309480528 | 5+ | seasonal | Pt Roberts | Natrue and sealife is wonderful-fascinating | Existence | responsible management | 1 | 1 | | | | | | | No | would like, if not too distant (conflict this time) | out of town, prior commitments | | Yes |
| U0078 | М | 405122007061 | 5+ | seasonal | Birch Bay | View, peace, solitude | Existence | bluff erosion | 1 | | | | | | | | No | previous engagement | out of town, prior commitments | | |
| D0915 | м | 405304467004 | 5+ | seasonal | Pt Roberts | wildlife-whales, seals, view, quiet | Existence | the noticeable increase in seaweeds, jellyfish, musky water | | 1 | | | 1 | | | | No | visitors staying for Easter weekend | out of town, prior commitments | | |
| 00915 | IVI | 403304407004 | JŦ | Seasonai | Fritobelts | fabulous sunsets, the eagles and blue | LAISterice | people cutting trees for view that causes erosion | | | | | 1 | | | | INU | Visitors staying for Laster weekend | out or town, phor communents | | |
| D0321 | М | 405110402273 | 5+ | seasonal | Semiahmoo | herons in the trees | Existence | of the bank | 1 | | | | | | | | No | out of town, will be arriving in mid May | out of town, prior commitments | | |
| | | | | | | | | having property rights taken away without fair | | | | | | | | | | | | | |
| U0151 | M | 370232192443 | 5+ 5+ | seasonal | Lummi/Eliza Is Birch Bay | the get away from it feeling | Existence | compensation | | | | | | | | | Yes | further my knowledge about shorelines | | valuable info | |
| D0831 D0098 | M/O | 395102126079 | | | | | | | | | 1 | | | | | | | | | NIA | |
| 20000 | | 405115203470 | 5+ | permanent | | view, wildlife, clean air natural setting, peace & quiet | Existence | bluff erosion bluff stabilization | 1 | | 1 | | | | | | Yes | | | NA learn about bluff erosion | |
| | M/O 0 | 405115203470 | | permanent permanent | Semiahmoo Semiahmoo | natural setting, peace & quiet views | Existence Existence Existence | bluff erosion bluff stabilization erosion, tsunami | 1 1 1 | | 1 | | | | | 1 | Yes Yes Yes | bluff erosion | | NA learn about bluff erosion NA | |
| | 0 | 405115203470 | 5+ | permanent permanent permanent | Semiahmoo Semiahmoo Birch Bay | natural setting, peace & quiet views beach, birds, clams, crabs, view, fresh air | Existence Existence Existence | bluff stabilization erosion, tsunami discarded junk on beach | | | | | | | | 1 | Yes Yes No | bluff erosion other commitments | out of town, prior commitments | NA | |
| | 0 | 405115203470 | | permanent permanent | Semiahmoo Semiahmoo | natural setting, peace & quiet views | Existence Existence | bluff stabilization erosion, tsunami discarded junk on beach erosion of the bluff | 1 1 1 1 | | | | | | | 1 | Yes Yes No | bluff erosion other commitments | out of town, prior commitments out of town, prior commitments | NA | Yes |
| | 0 | 405115203470 | 5+ | permanent permanent permanent | Semiahmoo Semiahmoo Birch Bay | natural setting, peace & quiet views beach, birds, clams, crabs, view, fresh air view wildlife | Existence Existence Existence | bluff stabilization erosion, tsunami discarded junk on beach erosion of the bluff Eroison, public traffic, unauthorized parking on | | | | | | | | 1 | Yes Yes No | bluff erosion other commitments out of town | | NA | Yes |
| | 0 | | 5+ | permanent permanent permanent | Semiahmoo Semiahmoo Birch Bay Birch Bay | natural setting, peace & quiet views beach, birds, clams, crabs, view, fresh air view wildlife view of water, quiet, private neighborhood | Existence Existence Existence | bluff stabilization erosion, tsunami discarded junk on beach erosion of the bluff Eroison, public traffic, unauthorized parking on my property. Laws forbidding building on my | | | 1 | | | | | 1 | Yes Yes No | bluff erosion other commitments out of town learn about bluff management, and laws and regulations in | | NA learn about bluff erosion, | Yes |
| D0139 | 0 0 0 | 405115203470 | 5+ 5+ | permanent permanent permanent permanent | Semiahmoo Semiahmoo Birch Bay | natural setting, peace & quiet views beach, birds, clams, crabs, view, fresh air view wildlife | Existence Existence Existence Existence | bluff stabilization erosion, tsunami discarded junk on beach erosion of the bluff Eroison, public traffic, unauthorized parking on | | | 1 | | | | | 1 | Yes Yes No No Yes | bluff erosion other commitments out of town | | NA | Yes |
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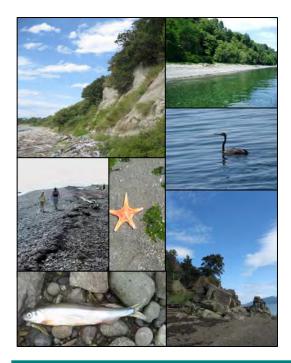
Appendix 2. Survey Response Analysis spreadsheet (see electronic copy for complete results).

| Ecosystem Function Goods & Services | | | | | | | | | |
|-------------------------------------|---|-----------------------|--|--|--|--|--|--|--|
| | | Crops | | | | | | | |
| | | Livestock | | | | | | | |
| | Food | | | | | | | | |
| | | Captured fisheries | | | | | | | |
| b | | Aquaculture | | | | | | | |
| Provisioning | | Wild foods | | | | | | | |
| /isid | | | | | | | | | |
| rov | Fiber | Timber and wood | | | | | | | |
| | | Other fibers | | | | | | | |
| | | Biomass Fuel | | | | | | | |
| | | Water (quantity) | | | | | | | |
| | | etic resources | | | | | | | |
| | | ls, natural medicines | | | | | | | |
| | Air quality regulation | | | | | | | | |
| | Global Climate | | | | | | | | |
| | Regional and local Climate | | | | | | | | |
| ing | Water (quality) | | | | | | | | |
| ulat | Erosion | | | | | | | | |
| Regulating | Water purification and water treatment | | | | | | | | |
| | Disease | | | | | | | | |
| | Pests | | | | | | | | |
| | Pollination | | | | | | | | |
| | Natural Hazards | | | | | | | | |
| a | | Ethical | | | | | | | |
| ltur | | Existence | | | | | | | |
| C | Recreation | | | | | | | | |
| | Educational | | | | | | | | |
| | Nutrient Cycling | | | | | | | | |
| orting | Soil Formation | | | | | | | | |
| Supporting | F | Food Web | | | | | | | |
| | | otosynthesis | | | | | | | |
| Appendi | Appendix 2. Ecosystem Functions, Goods and Services (EFG& | | | | | | | | |

Appendix 2. Ecosystem Functions, Goods and Services (EFG&S) Ranking Matrix Table used to assess 'cultural values': Ethical, Existence, Recreation, and Education (Simenstad 2009).

APPENDIX 3: Workshop Materials

- Workshop FlyerWorkshop Sign-in
- Workshop Packet Materials
- Workshop Evaluation



WHATCOM COUNTY BEACHES & BLUFFS

Want to learn more about healthy habitats and your options as a coastal property owner?

Living with the Coast Workshops – Sat, April 23 North Whatcom Fire and Rescue Station 62, 9001 Semiahmoo Pkwy., Blaine Joint Workshop BEACH WALK at Semiahmoo County Park

FREE & OPEN TO THE PUBLIC

Healthy Beach Habitats

by pioneering fish biologist Dan Penttila 10:00 - 11:45 am, **Beach Walk 2:30 - 4:30 pm**

Bluff Erosion Management

by coastal processes expert Jim Johannessen 12:30 - 2:15 pm, *Beach Walk 2:30 - 4:30 pm*

*Light snacks and refreshments provided. Lunch is on your own. *Bring rain gear, boots, or other appropriate attire for the field trip.

At this workshop you will:

- -Meet experts
- -Ask questions
- -Interact with your neighbors
- -Learn about specific issues
- relevant to your shorelines
- -See geologic processes and beach habitats
- -Learn about resources and information available

Find workshop details, *RSVP*, and provide feedback on your interests as a coastal property owner at <u>http://www.surveymonkey.com/s/M2MXXJX</u> or call 360-647-1845.

These workshops are part of a *Whatcom County Marine Resources Committee* (Whatcom MRC) outreach project. The Whatcom MRC is a citizen-based group representing a variety of marine related interests working together to protect and promote healthy marine resources. More information is available at: <u>www.whatcom-mrc.whatcomcounty.org/MRC/</u>

Workshops sponsored by:











| Name | Address (Optional) | Phone | email | Workshop | Informed |
|---------------------------|------------------------------------|--------------|--------------------------|----------|-----------------|
| Dick Peterson | 9165 Great Blue Heron | 778-1264 | | Both | Mail |
| Keats Garman | 8710 Oegtel Dr | 371-3554 | KeatsandGail@comcast.net | Both | Flyer |
| Carol and Dave Duffy | 13518 178 Ave SE, Renton, WA 98059 | 425-226-3274 | cjdffy@aol.com | Both | Mail |
| Magie Bell | 2057 Bayview Ave, Blaine | 360-332-1157 | gmbell07@comcast.net | Both | Newspaper |
| R Hoffmann | | 384-0348 | | Both | Mail |
| Andy Keay | 6895 Holeman Ave, Birch Bay | 371-2304 | | Beach | Mail |
| Tom and Nan Thomas | 5733 Nakat Way BB Village | 671-1045 | | Bluff | Mail |
| Ann Spink | | | | Bluff | Mail |
| Tony Aiello | 8979 Semiahmoo Dr | 371-9090 | | Bluff | Mail |
| Jim Rasar | 8985 Semiahmoo Dr | 371-8121 | | Bluff | Mail |
| Ron Sangara | | 604-833-5284 | ron@leslieforest.com | Bluff | Mail |
| Karen Carlson | | 332-6604 | | Bluff | Newspaper-NL |
| John Welch | | 371-5703 | welchj2@comcast.net | Both | Neighbor |
| Mark Gascon | PO Box 1067, Ferndale, WA 98248 | 360-319-6304 | markstuf@gmail.com | Both | email |
| Naomi and John Knowlton | 2067 bayview Ave | 360-220-4048 | naomiknowlton@yahoo.com | Both | Mail |
| Dan Maus | 6889 Holeman Ave, Blaine, WA 98230 | 206-714-8900 | dmaus@the mausgroup.com | Bluff | Mail |
| Ken Shannon | 5697 Nakat Way | 371-4118 | kshannon26a@comcast.net | Both | Newspaper |
| Bryan McKnight | Pt Roberts | 604-377-7353 | jbmcknight@telus.net | Both | Mail |
| Sandra & Robert Abernathy | 6905 Holeman Ave, Birch Bay, WA | 371-5794 | sandaber2@comcast.net | Both | Mail |
| Carol Rice | Birch Bay | 371-5507 | crclcr@gmail.com | | Mail, Newspaper |
| LouInda Churchward | Birch Bay Dr. | 201-8146 | louinda@honorlevel.com | Both | Newspaper-BH |
| Michele Volpp Rodriguez | 5566 Haida Way | 773-456-2563 | michelevolpp@gmail.com | Beach | Newspaper |
| Ken Kaliher | 1207 Chuckanut Dr | 734-2096 | kenkaliher@hotmail.com | Bluff | Mail |
| Howard Furst | 1207 Chuckanut Dr | 961-6476 | h_furst@hotmail.com | Bluff | Mail |
| Lynn Rose | 5519 Maple Way | 393-4562 | Irose1565@msn.com | Both | Mail |
| Barnard and Elaine Klop | 9545 Gibson | 604-792-8088 | bklop@caylix.com | Bluff | Mail |
| Bruce Montegani | 6893 Holeman Ave | 371-0403 | bruce@montegani.com | Bluff | Mail |
| Brian Piwek | 8831 Oertel Dr | 393-4584 | bpiwek@mac.com | Bluff | Mail |
| Nancy Hobberlin | 5670 Sanderling Way | 392-7795 | nhbrln4u | Bluff | Mail |
| Becky Chan | Abbortsford, BC | 604-807-2020 | bchan1066@shaw.ca | Both | Mail |
| Bevan Wilson | 8997 Semiahmoo Dr | 604-318-9939 | bevanwilson@telus | Bluff | Mail |

Appendix 3. Workshop sign-in sheet.



AGENDA

Living with the Coast Workshops

April 23, 2011, 10:00 am - 4:00 pm

Dan Penttila, Salish Sea Biological --- Jim Johannessen, Coastal Geologic Services

Workshop One: Healthy Beach Habitats

Saturday, 10:00 am - 11:45 pm - beach walk to follow Workshop Two

- 10:00 Opening and Marine Resources Committee Introduction (Stephanie Williams)
- 10:05 Shore Stewards Program Introduction (Cheryl Lovato-Niles)
- 10:10 Dan Penttila Introduction
 - Food webs
 - Forage fish herring, surf smelt, and sand lance
 - Other forage fish
 - Habitat preservation and modifications
 - Marine riparian
 - Threats to habitat oil spills
 - Other coastal habitats
 - Other coastal species and sampling
 - Habitat restoration, preservation, and regulation
- 11:25 Question/Answer and scope viewing of forage fish eggs

Workshop Two: Bluff Erosion Management

Saturday, 12:30 am - 2:15 pm - beach walk to follow

- 12:30 Opening and Marine Resources Committee Introduction (Stephanie Williams)
- 12:35 Shore Stewards Program Introduction (Cheryl Lovato-Niles)
- 12:40 Jim Johannessen Introduction
 - Puget Sound geology
 - Landslides and coastal erosion
 - Beach processes
 - Erosion control slope stabilization, drainage, and vegetation
 - Modifying the nearshore environment and climate change
 - Shoreline rules and regulations drainage, setbacks, permitting
 - Alternative beach erosion control
- 2:15 Question/Answer and prepare for beach walk

Beach Walk: Examples in the Field

Saturday, 2:30 pm - 4:30 pm - Semiahmoo County Park

- 2:30 Meet at Semiahmoo County Park (1/2 mile north of Workshop location along Semiahmoo Pkwy)
 - Explore beach habitats and benefits of riparian vegetation
 - Walk south to view bluffs, toe erosion, and landslides
 - Armoring the nearshore environment
 - Question/Answer
- 4:20 Workshop Evaluation
- 4:30 Adjourn

4:00

INTERNET SITES - WA COASTAL, NEARHSHORE, & MANAGEMENT ISSUES

Compiled by Jim Johannessen, Coastal Geologic Services www.coastalgeo.com

Coastal Processes, Shoreline Photos, Landslides: WA Dept. of Ecology – Shorelands

DOE maintains oversight over the County Shoreline Program and the shoreline permit process. They also maintain a large and informative website. New developments are planned for shorelines.

Puget Sound: http://www.ecy.wa.gov/programs/sea/pugetsound/

Shoreline aerial photos: http://apps.ecy.wa.gov/shorephotos/

Landslides: http://www.ecy.wa.gov/programs/sea/landslides/

Coastal Maps: http://www.ecy.wa.gov/programs/sea/SMA/atlas_home.html

Applied coastal geology: www.coastalgeo.com

USGS Shoreline Armoring Impacts-State of the Science

The US Geological Survey in the federal research and advisory agency for earth science issues. A scientific workshop was convened in May 2009, specifically to bring local and national experts together to review the state of the science regarding the physical and biological impacts of armoring on sheltered shorelines such as those of Puget Sound. Website: http://pubs.usgs.gov/sir/2010/5254/

USGS Landslide Hazards

The US Geological Survey operates an Internet site with a large amount of information, including landslide hazards. **Website:** <u>http://geohazards.cr.usgs.gov/</u>

WA USGS: http://geology.wr.usgs.gov/docs/stateinfo/WA.html

Earthquakes – USGS Earthquake Hazards Program Cascadia Region Earthquake Workgroup

http://earthquake.usgs.gov/ http://www.crew.org/

Whatcom County Planning and Development Services - Chad Yunge, Phone: (360) 676-6907

Website: http://www.co.whatcom.wa.us/pds/naturalresources/shorelines/index.jsp

Corps of Engineers

The US Army Corps of Engineers needs to permit any beach structures/modifications below mean higher high water (MHHW). The Corps also initiates dredging & shore protection projects and handles River & reservoir issues.
Website: http://www.nws.usace.army.mil/
Regulatory Branch Phone: (206) 764-3495

Regional Marine / Water Quality/ Pollution/ Ecosystem Issues

Puget Sound Partnership has a wide variety of reports and booklets on the status of the Sound and Straits and an Action Plan to rehabilitate habitats.

Puget Sound Partnership Website: http://www.psp.wa.gov/

WDFW Fish and Shellfish Science

News, forage fish, shellfish, salmon... information, alerts, products <u>http://wdfw.wa.gov/science/</u> White Papers on nearshore & marine issues <u>http://wdfw.wa.gov/hab/ahg/ahgwhite.htm</u>

Vegetation for shoreline management

Greenbelt Consulting, Elliot Menashe, (360) 341-3433 <u>http://www.greenbeltconsulting.com/</u> Plantas Native, LLC, Bay Renaud, (360) 715-9655 <u>http://www.plantasnativa.com/</u>

National Ocean Service

 Part of NOAA, the NOS provides information on coastal and ocean programs and issues

 Website:
 <u>http://www.nos.noaa.gov/welcome.html</u>

 Storm surge real time information:
 <u>http://tidesonline.nos.noaa.gov/geographic.html</u>

 Prelim. tides levels:
 <u>http://www.co-ops.nos.noaa.gov/data_retrieve.shtml?input_code=101011111pwl</u>

Tsunamis: U. Washington Geophysics Program Tsunami: http://www.geophys.washington.edu/tsunami/intro.html

Natural History Programs

North Cascades Institute is a non-profit group offering one and multi-day field seminars covering marine ecology,
coastal sciences, and a wide variety of natural history topics, Elderhostel & school curriculum.Website:http://www.ncascades.orgPhone (360) 856-5700 ext. 209



City of Seattle, San Juan County and Islands Trust to develop and pilot Green Shores for Homes

In March 2010, the U.S. Environmental Protection Agency (EPA), under the Puget Sound Watershed Management Assistant Program, awarded the City of Seattle and partners a fouryear grant of over \$500,000 to develop and test technical guidelines and incentives for improving the ecological function of residential shorelines along Lake Washington and in San Juan County. Green Shores for Homes will build on Seattle's existing Green Shorelines guidelines <u>http://www.seattle.gov/dpd/Planning/Green_Shorelines/Overview/</u>. The assessment framework, Green Shores for Homes, will be based on the Green Shores for Coastal Development Rating System (CDRS) developed by the Stewardship Centre of British Columbia (<u>www.greenshores.ca</u> and <u>www.stewardshipcentre.bc.ca</u>). The CDRS provides a voluntary rating certification framework for coastal development modeled after the highly successful LEEDtm Green Building rating system.

The City of Seattle proposes to pilot Green Shores for Homes credits and locally developed incentives on Lake Washington, building on previous multi-jurisdiction efforts to facilitate alternatives to shoreline alteration. San Juan County is a project partner and will pilot Green Shores for Homes in marine shoreline locations. In September 2010, Islands Trust, a federation of local governments within the BC Gulf Islands joined this initiative as a transboundary partner. Select members of the original Green Shores Technical Working Group, which oversaw the development of the original Coastal Development Rating System, will join with new technical team members to coordinate the development of the Green Shores for Homes credit system.

Implementing Green Shores for Homes simultaneously in British Columbia and Washington, in both urban freshwater and rural marine shorelines, will model how other jurisdictions within the Salish Sea can protect shoreline ecological function from future impacts of growth.

For more information regarding Green Shores go to <u>http://www.greenshores.ca/</u>. For more information regarding Green Shores for Homes, please contact Maggie Glowacki at the City of Seattle (<u>margaret.glowacki@seattle.gov</u>) or project coordinator Katrina Hoffman at Washington Sea Grant (kathoff@uw.edu).

10 guidelines for shoreline living

For complete details and many helpful suggestions, please see the Shore Stewards <u>Guide for Shoreline Living</u>.

- Use Water Wisely
- · Manage Water Runoff
- Encourage Native Plants and Trees
- Control Pests & Fertilize Safely
- Understand Bluff Dynamics Before Developing
- Respect Intertidal Life
- Preserve Eelgrass Beds and Forage Fish Spawning Habitat
- Know and Practice All Elements of Septic Maintenance
- Use Soft Armoring Techniques
 When Appropriate
- Know Permit Procedures for Shoreline Development



WASHINGTON STATE UNIVERSITY

Shore Stewards c/o Watershed Master/Beach Watchers WSU Extension Whatcom County 1000 North Forest Street #201 Bellingham WA 98225

Questions or Comments? Call Cheryl Lovato Niles (360) 676-6736 (360) 676-6707 ext. 50281 Or email: clniles@wsu.edu

Shore Stewards is made possible through funding from the U.S. Environmental Protection Agency and Washington State administered by the Puget Sound Action Team and the Northwest Straits Commission.



Shore Stewards

A program to help you better understand your property and take more pride and enjoyment



Would you like to ...?

Understand how your beach works?

Protect against bluff erosion?

Attract more salmon and marine life?

Enhance your property values?

Create a healthier, more abundant place for your children and grandchildren to live and play?

Shore Stewards

Shore Stewards can help you achieve these goals and also bring you recognition for your efforts to make our area a healthier place to live and own property. Shore Stewards does not require changes to your property. It asks for your agreement to 10 wildlife-friendly guidelines of shoreline living. As you learn more, you may become excited and decide you want to make some changes. But that's up to you.

Why Shore Stewards?

No one appreciates the richness and beauty of our marine waters more than shoreline landowners, and no one is in a better position to protect our waters, our shorelines, and the wildlife which depends on them. Shore Stewards was created to help shoreline residents feel more connected to the entire nearshore community. When you understand the natural processes at work on your beach, you are better equipped to make choices that will keep our waters cleaner and benefit all of our marine life.

Enhance your investment

Shore Stewards gives you access to people and information that can help you make wise decisions for the long-term health of your property and shoreline.

Who came up with this?

WSU Beach Watchers worked in collaboration with marine educators and experts to develop sound guidelines and reference materials addressing the most important issues affecting shoreline health today.

How to join

To join Shore Stewards, simply sign up. You will receive an informative <u>Guide For</u> <u>Shoreline Living</u> reference book. There is a Shore Stewards newsletter, and there are occasional programs or workshops you can attend. A free metal Shore Stewards sign is available to those who become "Certified Shore Stewards" by pledging to practice three of the ten guidelines for shoreline living. There are no fees or dues required to join Shore Stewards. No classes or meetings to attend. We are simply an educational resource for those who live along the shoreline or in shoreline communities.

To become a Shore Steward

Clip and mail to: Shore Stewards c/o Watershed Master/Beach Watchers WSU Whatcom County Extension 1000 N. Forest Street #201 Bellingham WA 98225

____ Yes, sign me up and please send me your free guidebook and newsletters.

Name

Address

City / State / ZIP

Phone

Email

Yes! I'd like to pledge to practice three guidelines for shoreline living. Please send me a pledge.

For more information

Visit our Website: <u>www.shorestewards.org</u> E-mail: clniles@wsu.edu Phone: (360) 676-6707 ext. 50281

To find out more about Watershed Masters/Beach Watchers http://www.whatcom.wsu.edu/environ/water/ bw.htm

Become a Shore Steward

Shore Stewards is designed to meet the unique needs of people who live near our beaches, bays, Straits, and Sound, but everyone is welcome to join.

Name:

Mailing Address:

Email:

Phone:

Don't miss out! Shore Stewards newsletters are distributed electronically and rest assured we will never sell your email address.

Shoreline Address (if different from your mailing address):

I own or live on:

____ shoreline property

___ bluff property

beach access or a boar ramp through my community association I live at my beach property:

___year round

____ seasonally

____my property is undeveloped

Take the Shore Stewards Pledge

Most Shore Stewards have pledged to follow at least 3 of the 10 Guidelines for Shoreline Living. If you take the pledge we will give you a free Shore Stewards yard sign as a token of our appreciation.

| 1. Use Water Wisely: | | |
|--------------------------|-----------------------------|----------------|
| Already Do | Will do More | Not Applicable |
| 2. Manage Water Run | off | |
| Already Do | Will do More | Not Applicable |
| 3. Encourage Native P | ants & Trees | |
| Already Do | Will do More | Not Applicable |
| 4. Control Pests & Fer | ilize Safely | |
| Already Do | Will do More | Not Applicable |
| 5. Understand Bluff Dy | mamics before Developing: | |
| Already Do | Will do More | Not Applicable |
| 6. Respect Intertidal Li | fe: | |
| Already Do | Will do More | Not Applicable |
| | Beds & Forage Fish Spawnin | |
| Already Do | Will do More | Not Applicable |
| 8. Know & Practice all | Elements of Septic Mainten | ance: |
| Already Do | Will do More | Not Applicable |
| | echniques when Appropria | te: |
| Already Do | Will do More | Not Applicable |
| | edures for Shoreline Develo | pment: |
| Already Do | Will do More | Not Applicable |

We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name | | | |
|--|-----|----------|-------|
| Coastal property owner? YES/NO | | | |
| Physical Address (optional) | | | |
| Address of coastal property (if different) | | | |
| Phone (optional) | | | |
| email | | | |
| CIRCLE applicable: seasonal resident/permanent resident | | | |
| CIRCLE applicable workshop attended: Bluffs, Beaches, Both | | | |
| | 0.1 | <u> </u> | ~ |

1. Have you ever attended a similar workshop on coastal processes? If so when/where?

| . Do you have specific concerns regarding the management of your property? YES/ | |
|---|--|
| If YES what is the nature of your concern (Check all that apply): | |
| \Box rate of erosion of bluff \Box rate of erosion of beach \Box health of beach | |
| □ integrity of protective structures □ drainage issues □ shoreline regulations | |
| □ interest in implementing better stewardship practices □ other: | |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NOIf NO why not? (Check all that apply): | |
| \Box No concerns \Box lack of trust in experts \Box assume it will be too expensive | |
| \Box concern about ramifications (please specify) | |
| other (please specify) | |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) | |
| □ concern about cost □ Lack of knowledge of who/how | |
| other (please specify) | |



4. What are incentives and barriers to participating in educational workshops such as these? Incentives:

Barriers:

HEALTHY BEACH HABITATS - Evaluation

□ exceeded expectations □ met expectations □ did not meet expectations What I appreciated most about the *Healthy Beach Habitats* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

BLUFF EROSION MANAGEMENT - Evaluation

| exceeded expectations | met expectations | ☐ did not meet expectations |
|-----------------------|------------------|-----------------------------|
|-----------------------|------------------|-----------------------------|

What I appreciated most about the *Bluff Erosion Management* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

I would like more information regarding (Check all that apply): □ Future workshops
 □ Shore Stewards Program □ Learning more about conservation on my coastal property
 □ Green Shores for Homes Program □ Potential restoration on my coastal property



APPENDIX 4: Workshop Evaluation

- Workshop Evaluations
- Workshop Evaluation Responses Spreadsheet

We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name Row Sangura |
|--|
| Name ON Stangard Coastal property owner? (YESANO Physical Address (optional) <u>SS31</u> Schmin-Guchus Dr. Richmud B. Address of coastal property (if different) Bb gy/c |
| Coastal property owners (Issino) RS31 Semi-Guhas Dr. Richmud B. |
| Address of coastal property (if different) |
| Phone (optional) $699 - 279 - 6965$ |
| email <u>fors</u> Cles lic forest. Low |
| CIRCLE applicable: (seasonal resident/permanent resident |
| (particular and the second se |
| CIRCLE applicable workshop attended: Bluffs Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? $\sqrt{2}$ |
| |
| |
| 2. Do you have specific concerns regarding the management of your property? YES NO |
| If YES what is the nature of your concern (Check all that apply): |
| \square rate of erosion of bluff \square rate of erosion of beach \square health of beach |
| \Box integrity of protective structures \Box drainage issues \Box shoreline regulations |
| interest in implementing better stewardship practices 🗍 other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? |
| If NO why not? (Check all that apply): |
| \Box No concerns \Box lack of trust in experts \Box assume it will be too expensive |
| concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| C concern about cost Lack of knowledge of who/how |
| Other (please specify) |
| Living with the Coast Workshops-Evaluation April 23, 2011 |

Health Beach Habitats and Bluff Erosion Management

4. What are incentives and barriers to participating in educational workshops such as these?

Sumed more Knowledge that I started will Incentives:

Barriers:

HEALTHY BEACH HABITATS - Evaluation

exceeded expectations met expectations did not meet expectations What I appreciated most about the *Healthy Beach Habitats* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

BLUFF EROSION MANAGEMENT - Evaluation

☐ did not meet expectations

What I appreciated most about the Bluff Erosion Management workshop: practiced, Speaker was very Knowledge with

What could be added to this workshop to enhance its value to coastal property owners?)

Are you likely to apply any of the information or resources from the workshop in (YES/NO (please specify) management of your own property?

Overall, what is the most valuable thing you will take away from this workshop?

Contract and Knowledge we can do something Slow tv. down erosim *I would like more information regarding (Check all that apply):* Urure workshops □ Shore Stewards Program □ Learning more about conservation on my coastal property Potential restoration on my coastal property Green Shores for Homes Program

We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

Name A HOFMANN WS/NO Coastal property owner? Physical Address (optional) 115- PARAPISE R. FERNANCE. Address of coastal property (if different) Lot 50 Ec (20 / Score Phone (optional) _____ みどー しまイレ email CIRCLE applicable: seasonal resident/permanent resident UNDEVELOPEN Cor CIRCLE applicable workshop attended: Bluffs, Beacher, Both 1. Have you ever attended a similar workshop on coastal processes? If so when/where? NO 2. Do you have specific concerns regarding the management of your property? (ES/NO If YES what is the nature of your concern (Check all that apply): \square rate of erosion of bluff \square rate of erosion of beach \square health of beach □ integrity of protective structures □ drainage issues □ shoreline regulations Interest in implementing better stewardship practices other: 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? CYES/NO If NO why not? (Check all that apply): □ No concerns □ lack of trust in experts □ assume it will be too expensive concern about ramifications (please specify) other (please specify) If YES, what would be the obstacles for you to make this happen: (check all that apply) Concern about cost 🛛 Lack of knowledge of who/how \Box other (please specify)

MRC

4. What are incentives and barriers to participating in educational workshops such as these?

Incentives:

BECOMING MORE EDUCATED

Barriers:

HEALTHY BEACH HABITATS - Evaluation

 \Box exceeded expectations \Box met expectations \Box did not meet expectations

What I appreciated most about the Healthy Beach Habitats workshop: $C \in Paring Prove EISK Mabitats$

What could be added to this workshop to enhance its value to coastal property owners?

 T_{HINK} T_{VAS} P_{ONE} $Ar \ Ir$. Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

GENERAL EDUCATION

BLUFF EROSION MANAGEMENT - Evaluation

 \Box exceeded expectations \Box met expectations \Box did not meet expectations

What I appreciated most about the *Bluff Erosion Management* workshop:

RE: MADINAGE SSUES

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property?

PLANTING VEGETATION

Overall, what is the most valuable thing you will take away from this workshop?

GENEROL EPUCATON

I would like more information regarding (Check all that apply): □ Future workshops □ Shore Stewards Program □ Learning more about conservation on my coastal property □ Green Shores for Homes Program □ Potential restoration on my coastal property

We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name MAGIE BELL |
|--|
| Coastal property owner? (YES/NO |
| Physical Address (optional) 2057 BAYVIEN AVE BLAINE |
| Address of coastal property (if different) |
| Phone (optional) |
| email gmball 07 @ comcast. net |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs, Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| |
| 2. Do you have specific concerns regarding the management of your property? YES/NO |
| If YES what is the nature of your concern (Check all that apply): |
| ☑ rate of erosion of bluff ☑ rate of erosion of beach ☑ health of beach |
| □ integrity of protective structures drainage issues shoreline regulations |
| ☐ interest in implementing better stewardship practices □ other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO |
| If NO why not? (Check all that apply): |
| \Box No concerns \Box lack of trust in experts \Box assume it will be too expensive |
| concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| Concern about cost Lack of knowledge of who/how |
| other (please specify) |

MRC

4. What are incentives and barriers to participating in educational workshops such as these? Incentives: Interest, motivation, pressure of climate change, changes in Minking

Barriers: Time follow-up, Resources

HEALTHY BEACH HABITATS - Evaluation

 \square exceeded expectations \square met expectations \square did not meet expectations

What I appreciated most about the Healthy Beach Habitats workshop: - new Knowledge of habitat of openies

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in

management of your own property? (YES/NO (please specify) Hunting of builty Respect for species that share bench habitat

Overall, what is the most valuable thing you will take away from this workshop? Kenewed inferent, increased Knowledge

BLUFF EROSION MANAGEMENT - Evaluation

 \square exceeded expectations \square met expectations did not meet expectations

What I appreciated most about the *Bluff Erosion Management* workshop: knowledge of plants that assist in pluff maintenance

What could be added to this workshop to enhance its value to coastal property owners?

More emphasis on regources available

Are you likely to apply any of the information or resources from the workshop in management of your own property? (YES/NO (please specify) Planting to maintain bank

Overall, what is the most valuable thing you will take away from this workshop?

I would like more information regarding (Check all that apply): The Future workshops Shore Stewards Program Le Learning more about conservation on my coastal property Green Shores for Homes Program Potential restoration on my coastal property



We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name you Rose |
|--|
| Coastal property owner? |
| Physical Address (optional) <u>5519 Maple 11 Jay</u> 7356 Seashell Uky, E Address of coastal property (if different) <u>5519 Maple 11 Jay</u> |
| Address of coastal property (if different) _ 5519 Maple way |
| Phone (optional) |
| email Lrose 1565 Omsn. Com |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs, Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| λ o |
| |
| 2. Do you have specific concerns regarding the management of your property? YES/NO |
| If YES what is the nature of your concern (Check all that apply): |
| ☑ rate of erosion of bluff ☑ rate of erosion of beach ☑ health of beach |
| □ integrity of protective structures □ drainage issues □ shoreline regulations |
| \Box interest in implementing better stewardship practices \Box other: |
| 2. Would use he interested in an expect site visit in order to obtain site energies |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? $\frac{1}{10000000000000000000000000000000000$ |
| If NO why not? (Check all that apply): |
| |
| □ No concerns □ lack of trust in experts □ assume it will be too expensive |
| Called Tim initially - not in budget, but put my |
| Jother (please specify) artain drain around house & new spice sustain |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) wh |
| \Box concern about cost \Box Lack of knowledge of who/how to h_{0} , \mathcal{F} |
| The second se |

 \Box other (please specify) _

MRC

4. What are incentives and barriers to participating in educational workshops such as these?

Incentives: Learn how to protect and maintain fish habitat and bluffs

Barriers:

HEALTHY BEACH HABITATS - Evaluation

 \Box exceeded expectations \Box met expectations \Box did not meet expectations

What I appreciated most about the Healthy Beach Habitats workshop: Learning a bout bur black area and what to 100 k for to keep healthing

What could be added to this workshop to enhance its value to coastal property owners? But Sure -

Are you likely to apply any of the information or resources from the workshop in management of your own property? (YESANO (please specify) watch but for fish labitat on beach and protect

Overall, what is the most valuable thing you will take away from this workshop?

BLUFF EROSION MANAGEMENT - Evaluation

 \Box exceeded expectations \Box met expectations \Box did not meet expectations

What I appreciated most about the Bluff Erosion Management workshop: Vegetation deas and found out our water basin catch ? tubing down bluff is great

What could be added to this workshop to enhance its value to coastal property owners? Not Sure for new to coastal living

Are you likely to apply any of the information or resources from the workshop in management of your own property? (YES/NO (please specify)) Veg tation on bluff

Overall, what is the most valuable thing you will take away from this workshop?

I would like more information regarding (Check all that apply): Future workshops Shore Stewards Program Learning more about conservation on my coastal property Green Shores for Homes Program Potential restoration on my coastal property



We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name_ Son Onda Churchward |
|---|
| Coastal property owner? |
| Physical Address (optional) 8234 Binch Bas Dr. |
| Address of coastal property (if different) |
| Phone (optional) 360- 201- 8146 |
| email louinda (Whonorlevel.com |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs: Beaches: Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| 2 Wolf Bauer presentations |
| |
| 2. Do you have specific concerns regarding the management of your property? |
| If YES what is the nature of your concern (Check all that apply): |
| \Box rate of erosion of bluff \Box rate of erosion of beach kealth of beach |
| \Box integrity of protective structures \mathbf{k} drainage issues \Box shoreline regulations |
| Interest in implementing better stewardship practices dther: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? |
| If NO why not? (Check all that apply): |
| □ No concerns □ lack of trust in experts 又 assume it will be too expensive |
| concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| Concern about cost Lack of knowledge of who/how |
| other (please specify) |

MRC

4. What are incentives and barriers to participating in educational workshops such as these? Incentives:

Barriers: Time - Saturday's are pretty " 600 ked"

HEALTHY BEACH HABITATS - Evaluation

 \boxtimes exceeded expectations \square met expectations \square did not meet expectations What I appreciated most about the Healthy Beach Habitats workshop: Extremely informed & passionate oplakers you wought SUNSHINE!! What could be added to this workshop to enhance its value to coastal property owners? Encourage plople to entrance its value to coastal property owners: Encourage plople to entrage of posted exhibits x other an turk Bull ad vantage of posted exhibits x other Are you likely to apply any of the information or resources from the workshop in the whole of management of your own property? (YES)NO (please specify) by <u>dis</u> lourceging my neighous grom building Overall, what is the most valuable thing you will take away from this workshop? day 1 Don't Book w/ mother nature. She has it sight BLUFF EROSION MANAGEMENT - Evaluation did ny know a would believe shellac

Clams

A exceeded expectations I met expectations I did not meet expectations

What I appreciated most about the Bluff Erosion Management workshop:

good examples - " Simpligied geologice"

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

don't huild too close to edge of black - Buff I would like more information regarding (Check all that apply): V Future workshops

□ Shore Stewards Program □ Learning more about conservation on my coastal property Green Shores for Homes Program Potential restoration on my coastal property

We appreciate your interest in the Living with the Coast Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name LEN SHAMON |
|--|
| Coastal property owner? (YES)NO |
| Physical Address (optional) 5697 NAIGHT WAY |
| Address of coastal property (if different) |
| Phone (optional) emailKshannon 26a@ comcast. ret |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs, beardes, both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| NO and the second se |
| 2. Do you have specific concerns regarding the management of your property? (YESYNO |
| If YES what is the nature of your concern (Check all that apply): |
| Prate of erosion of bluff arate of erosion of beach health of beach |
| \Box integrity of protective structures \Box drainage issues \Box shoreline regulations |
| ☐ interest in implementing better stewardship practices □ other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES NO |
| If NO why not? (Check all that apply): |
| □ No concerns □ lack of trust in experts □ assume it will be too expensive |
| Concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| □ concern about cost □ Lack of knowledge of who/how |
| other (please specify) |
| |



4. What are incentives and barriers to participating in educational workshops such as these? Incentives:

INCL KNOWLEDGE + BETTER PROTECTION OF BLUFF-

Barriers:

BLUFF EROSION MANAGEMENT GEALFERENCE CONSTRUCTS - Evaluation

exceeded expectations Amet expectations Addid not meet expectations

What I appreciated most about the *Healthy Beach Habitats* workshop:

I GAMES SOME VALUABLE SLOPE STABILITY (NFO.

What could be added to this workshop to enhance its value to coastal property owners?

Molepsel Focks ON ISSUES DREATED TOWARDS (IP. LESS PLATE TECTONICS) Are you likely to apply any of the information or resources from the workshop in management of your own property? (YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

BEUFF EROSION MANAGEMENT - Evaluation

□ exceeded expectations □ met expectations □ did not meet expectations What I appreciated most about the *Bluff Erosion Management* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

I would like more information regarding (Check all that apply): Future workshops
 Shore Stewards Program Learning more about conservation on my coastal property
 Green Shores for Homes Program Dotential restoration on my coastal property



We appreciate your interest in the Living with the Coast Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name LGATSCAMAN |
|---|
| Coastal property owner? YES/NO |
| Physical Address (optional) 87002KUGLOV |
| Address of coastal property (if different) |
| Phone (optional) 371-3554 |
| email Real Sand gail & Compost het |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs, Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? US-16 (ame-J40 (|
| 2. Do you have specific concerns regarding the management of your property? (VESING |
| If YES what is the nature of your concern (Check all that apply): |
| \Box rate of erosion of bluff \Box rate of erosion of beach \Box health of beach |
| □ integrity of protective structures ↓ drainage issues □ shoreline regulations |
| □ interest in implementing better stewardship practices ☑ other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? |
| If NO why not? (Check all that apply): |
| □ No concerns □ lack of trust in experts □ assume it will be too expensive |
| Concern about ramifications (please specify) |
| other (please specify) blach weik with neyborn Salong Sembring |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| □ concern about cost □ Lack of knowledge of who/how |
| other (please specify) |



4. What are incentives and barriers to participating in educational workshops such as these? Incentives:

Barriers:

HEALTHY BEACH HABITATS - Evaluation

 \square exceeded expectations \square met expectations \square did not meet expectations

What I appreciated most about the *Healthy Beach Habitats* workshop:

ins Knowledge, Cender, Schscofhinar

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

BLUFF EROSION MANAGEMENT - Evaluation

Revealed expectations I met expectations I did not meet expectations

What I appreciated most about the Bluff Erosion Management workshop:

Specific Suggestins on what step to take

What could be added to this workshop to enhance its value to coastal property owners? Vacetuicon Gussistansi Sun fall water mangent

Are you likely to apply any of the information or resources from the workshop in management of your own property? (ES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

I would like more information regarding (Check all that apply):

Future workshops

We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name KARENI CARLSOM |
|--|
| Coastal property owner? (YES/NO |
| Physical Address (optional) 2220 MONTFORT BLAINE WA 98230 |
| Address of coastal property (if different) |
| Phone (optional) |
| email CARLSONKENE MSN. WM |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| |
| 2. Do you have specific concerns regarding the management of your property? YES/NO |
| If YES what is the nature of your concern (Check all that apply): |
| 🛙 rate of erosion of bluff \Box rate of erosion of beach \Box health of beach |
| □ integrity of protective structures ⊠ drainage issues ⊠ shoreline regulations |
| □ interest in implementing better stewardship practices □ other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO |
| If NO why not? (Check all that apply): |
| \Box No concerns \Box lack of trust in experts $oxtimes$ assume it will be too expensive |
| concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| Sconcern about cost 🛛 Lack of knowledge of who/how |
| other (please specify) |



4. What are incentives and barriers to participating in educational workshops such as these? Incentives:

Barriers:

REVER EROS/ON HEALTHY BEACH MABITATS - Evaluation \square exceeded expectations \square met expectations \square did not meet expectations What I appreciated most about the Healthy Beach Habitats workshop: THOROUGH DETAILED FYPLANATION - HISTORICAL + GEOLOGICAL ANALISE, PLUS LEAR DOABLE SOLUTIONS JM WAS AN EXCELLENT SPEAKER. What could be added to this workshop to enhance its value to coastal property owners? Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify) ANCHORED LOGS PLANDNG OF VEGETATION . Overall, what is the most valuable thing you will take away from this workshop? BULKHEARS ARE DESTRUCTIVE Here LOGS, GRAVEL + YEGERATION **BLUFF EROSION MANAGEMENT - Evaluation** \bigvee exceeded expectations \Box met expectations \Box did not meet expectations What I appreciated most about the Bluff Erosion Management workshop: What could be added to this workshop to enhance its value to coastal property owners? Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify) Overall, what is the most valuable thing you will take away from this workshop? I would like more information regarding (Check all that apply): Future workshops □ Shore Stewards Program □ Learning more about conservation on my coastal property Green Shores for Homes Program Potential restoration on my coastal property

MRC

We appreciate your interest in the Living with the Coast Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Nome KNOW ITONS |
|---|
| Name |
| Coastal property owner? YE\$/NO |
| Physical Address (optional) |
| Address of coastal property (if different) |
| Phone (optional) emailNQOMIKNOWITONE Yahoo.com |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs, Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| No |
| 2. Do you have specific concerns regarding the management of your property? (YE)/NO |
| If YES what is the nature of your concern (Check all that apply): |
| \square rate of erosion of bluff \square rate of erosion of beach \square health of beach |
| |
| integrity of protective structures Adrainage issues Ashoreline regulations |
| integrity of protective structures Adrainage issues Ashoreline regulations |
| an a |
| interest in implementing better stewardship practices other: 3. Would you be interested in an expert site visit in order to obtain site specific |
| interest in implementing better stewardship practices other: 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO If NO why not? (Check all that apply): |
| interest in implementing better stewardship practices other: 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO |
| interest in implementing better stewardship practices □ other: |
| interest in implementing better stewardship practices □ other: |
| interest in implementing better stewardship practices □ other: |

4. What are incentives and barriers to participating in educational workshops such as these?

gaining Knowledge Incentives:

Barriers:

HEALTHY BEACH HABITATS - Evaluation

 \Box exceeded expectations \bigtriangledown met expectations \Box did not meet expectations

What I appreciated most about the Healthy Beach Habitats workshop:

expertiese of 12 Adars

What could be added to this workshop to enhance its value to coastal property owners?

time for lunch Are you likely to apply any of the information or resources from the workshop in (YES/NO (please specify) management of your own property?

Overall, what is the most valuable thing you will take away from this workshop?

BLUFF EROSION MANAGEMENT - Evaluation

 \square met expectations \square did not meet expectations exceeded expectations What I appreciated most about the *Bluff Erosion Management* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

Sel annie

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

I would like more information regarding (Check all that apply): II Future workshops Shore Stewards Program 🛛 Learning more about conservation on my coastal property Green Shores for Homes Program Potential restoration on my coastal property

We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| \square D |
|--|
| Name |
| Coastal property owner? (YES)NO |
| Physical Address (optional) 8785 SEmiantmos DR, BCARNE WA. 982 |
| Address of coastal property (if different) |
| Phone (optional) |
| email |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended. Bluffs, Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| |
| |
| 2. Do you have specific concerns regarding the management of your property? YES/NO |
| If YES what is the nature of your concern (Check all that apply): |
| \Box rate of erosion of bluff \Box rate of erosion of beach \Box health of beach |
| integrity of protective structures Indrainage issues Integrity of protective structures Indrainage issues |
| □ interest in implementing better stewardship practices □ other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO |
| If NO why not? (Check all that apply): |
| No concerns lack of trust in experts assume it will be too expensive |
| concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| □ concern about cost □ Lack of knowledge of who/how |
| other (please specify) |

MRC

4. What are incentives and barriers to participating in educational workshops such as these? educational, info-mative Incentives:

Barriers: None

HEALTHY BEACH HABITATS - Evaluation

exceeded expectations met expectations \Box did not meet expectations What I appreciated most about the *Healthy Beach Habitats* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

BLUFF PROSION MANAGEMENT - Evaluation

Vexceeded expectations \Box met expectations \Box did not meet expectations

What I appreciated most about the *Bluff Erosion Management* workshop:

educational, informative

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

eyery hing !

I would like more information regarding (Check all that apply): ____Future workshops Shore Stewards Program 🛛 Learning more about conservation on my coastal property Potential restoration on my coastal property Green Shores for Homes Program



We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name CAROL & DAVE DUFFY |
|--|
| Coastal property owner? |
| Physical Address (optional) <u>13518 178 AUE SE RENTON 9805</u> Address of coastal property (if different) <u>8977 SEMIAHMOODRIUE</u> |
| Address of coastal property (if different) <u>3977</u> SEMIAHMOODRIUE |
| Phone (optional) 425 226 3274 |
| email <u>cjdffy@aol.com</u> |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs, Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| $\mathcal{N}\mathcal{O}$ |
| |
| 2. Do you have specific concerns regarding the management of your property? YES/NO |
| If YES what is the nature of your concern (Check all that apply): |
| \Box rate of erosion of bluff \Box rate of erosion of beach \Box health of beach |
| □ integrity of protective structures ⊠ drainage issues □ shoreline regulations |
| □ interest in implementing better stewardship practices □ other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO |
| If NO why not? (Check all that apply): |
| □ No concerns □ lack of trust in experts □ assume it will be too expensive |
| concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| □ concern about cost □ Lack of knowledge of who/how |
| other (please specify) |



4. What are incentives and barriers to participating in educational workshops such as these? Incentives:

VERY INFORMATIVE.

Barriers:

HEALTHY BEACH HABITATS - Evaluation

 \overline{M} exceeded expectations \Box met expectations \Box did not meet expectations What I appreciated most about the *Healthy Beach Habitats* workshop:

INFORMATIVE

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in YES/NO (please specify) management of your own property?

Overall, what is the most valuable thing you will take away from this workshop?

BLUFF EROSION MANAGEMENT - Evaluation

 \square exceeded expectations \square met expectations \square did not meet expectations What I appreciated most about the *Bluff Erosion Management* workshop:

INFORMATION

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in YES/NO (please specify) management of your own property?

Overall, what is the most valuable thing you will take away from this workshop?

I would like more information regarding (Check all that apply): D Future workshops □ Shore Stewards Program □ Learning more about conservation on my coastal property Green Shores for Homes Program Potential restoration on my coastal property



We appreciate your interest in the Living with the Coast Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name Carol Rice |
|---|
| Coastal property owner? (ES NO |
| Physical Address (optional) 5751 Dakat Way Blaine |
| Address of coastal property (if different) |
| Phone (optional) |
| email <u>crolor equaticon</u> |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs, Beaches, Both |
| |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| NO |
| 2. Do you have specific concerns regarding the management of your property? (YES) NO |
| If YES what is the nature of your concern (Check all that apply): |
| Trate of erosion of bluff 🔲 rate of erosion of beach 🗌 health of beach |
| integrity of protective structures Adrainage issues Shoreline regulations |
| Hinterest in implementing better stewardship practices Other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? |
| If NO why not? (Check all that apply): |
| \Box No concerns \Box lack of trust in experts \Box assume it will be too expensive |
| concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| Aconcern about cost |
| Dother (please specify) am not sure I need a site visit |



4. What are incentives and barriers to participating in educational workshops such as these?

Incentives: then prowledge

Barriers:

HEALTHY BEACH HABITATS - Evaluation

Dexceeded expectations D met expectations D did not meet expectations

What I appreciated most about the *Healthy Beach Habitats* workshop:

Both presentations excellent, well presented lary to understan

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

improve there bluff plantings

Overall, what is the most valuable thing you will take away from this workshop?

Increased provoledge of bluff management able that the exosion is natural & generally ... **BLUFF EROSION MANAGEMENT - Evaluation**

Dexceeded expectations I met expectations I did not meet expectations

What I appreciated most about the Bluff Erosion Management workshop: above, comment same

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YE\$/NO (please specify)

1

above response

Overall, what is the most valuable thing you will take away from this workshop?

would like more information regarding (Check all that apply): Use future workshops Shore Stewards Program Learning more about conservation on my coastal property Green Shores for Homes Program Potential restoration on my coastal property

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We appreciate your interest in the Living with the Coast Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name Bein Pineic |
|---|
| |
| Physical Address (optional) 8831 OERTEL DR. BLAINE |
| Address of coastal property (if different) |
| Phone (optional) 360 393 - 4584 |
| Phone (optional) 360-393-4584 email privere @ Marc. Com |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs, Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| NO |
| 2. Do you have specific concerns regarding the management of your property? YES/NO |
| If YES what is the nature of your concern (Check all that apply): |
| \Box rate of erosion of bluff \Box rate of erosion of beach \Box health of beach |
| □ integrity of protective structures □ drainage issues □ shoreline regulations |
| \Box interest in implementing better stewardship practices \Box other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? |
| If NO why not? (Check all that apply): |
| No concerns 🛛 lack of trust in experts 🗍 assume it will be too expensive |
| concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| Concern about cost Lack of knowledge of who/how |
| other (please specify) |



Living with the Coast Workshops-Evaluation April 23, 2011 Living with the Coast workshops Ended

Barriers:

HEALTHY BEACH HABITATS - Evaluation

□ exceeded expectations □ met expectations □ did not meet expectations What I appreciated most about the *Healthy Beach Habitats* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

BLUFF EROSION MANAGEMENT - Evaluation

Dexceeded expectations D met expectations D did not meet expectations

What I appreciated most about the *Bluff Erosion Management* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

SCIENCE BETING EROSION CYCE

Are you likely to apply any of the information or resources from the workshop in management of your own property? (YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

RESTORATION & MARAGENENT: peacet

I would like more information regarding (Check all that apply): □ Shore Stewards Program □ Learning more about conservation on my coastal property Green Shores for Homes Program Potential restoration on my coastal property



We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name BERNIECE PIWEK |
|---|
| Coastal property owner? (YES/NO |
| Physical Address (optional) 8831 OERTEL DR BLAINE 98230 |
| Address of coastal property (if different) |
| Phone (optional) 360 393-4584 |
| Phone (optional) 360 393-4584 email bpiwek @ mac. com |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended Bluffs, Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| NO |
| |
| 2. Do you have specific concerns regarding the management of your property? YES NO |
| If YES what is the nature of your concern (Check all that apply): |
| \Box rate of erosion of bluff \Box rate of erosion of beach \Box health of beach |
| \Box integrity of protective structures \Box drainage issues \Box shoreline regulations |
| □ interest in implementing better stewardship practices □ other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO If NO why not? (Check all that apply): |
| □ No concerns □ lack of trust in experts □ assume it will be too expensive |
| concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| Concern about cost Lack of knowledge of who/how |
| Other (please specify) |
| |

MRC

Incentives: learn more about keeping our property Barriers: none

HEALTHY BEACH HABITATS - Evaluation

exceeded expectations
 met expectations
 did not meet expectations
 What I appreciated most about the *Healthy Beach Habitats* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

BLUFF EROSION MANAGEMENT - Evaluation

 \square exceeded expectations \square met expectations \square did not meet expectations

What I appreciated most about the *Bluff Erosion Management* workshop:

clear explanation reformation & erosion of bluffor how this may impact our own beach. Thoper What could be added to this workshop to enhance its value to coastal property owners? maintance

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

to watch for another opportunity to hear fin break.

I would like more information regarding (Check all that apply): □ Future workshops
 □ Shore Stewards Program □ Learning more about conservation on my coastal property
 □ Green Shores for Homes Program □ Potential restoration on my coastal property



We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name BERNARD ; ELAINE KLOP |
|---|
| Coastal property owner? (YES)NO |
| Physical Address (optional) 9545 Gibson Rd. Chilliwach, B.C |
| Address of coastal property (if different) 9672? Holemon Ane |
| Phone (optional) 604 - 792 - 8088 |
| email 6Klopa caylix. com |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs, Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| No. |
| 2. Do you have specific concerns regarding the management of your property? (YES/NO |
| If YES what is the nature of your concern (Check all that apply): |
| $oldsymbol{D}$ rate of erosion of beach $oldsymbol{\Box}$ health of beach |
| □ integrity of protective structures □ drainage issues □ shoreline regulations |
| \Box interest in implementing better stewardship practices \Box other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES NO If NO why not? (Check all that apply): |
| \Box No concerns \Box lack of trust in experts \Box assume it will be too expensive |
| concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| Concern about cost Lack of knowledge of who/how |
| other (please specify) |
| |

Incentives: Educative value.

Barriers: None

HEALTHINGEACHLITABLEATS - Evaluation

 \Box exceeded expectations \Box met expectations \Box did not meet expectations

What I appreciated most about the Healthy Beach Habitats workshop:

Aractical Experience of Eccilitation.

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? (YES/NO (please specify)

Gives me some Key pointers to evaluate my blut. Overall, what is the most valuable thing you will take away from this workshop?

Access to resources.

BLUFF EROSION MANAGEMENT - Evaluation

 \Box exceeded expectations \Box met expectations \Box did not meet expectations What I appreciated most about the *Bluff Erosion Management* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you wilktake away from this workshop?

I would like more information regarding (Check all that apply): □ Future workshops □ Shore Stewards Program □ Learning more about conservation on my coastal property □ Green Shores for Homes Program □ Potential restoration on my coastal property

MRC

We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| An I |
|--|
| Name BRYAN MCKNIGHT |
| Coastal property owner? YES/NO |
| Physical Address (optional) |
| Address of coastal property (if different) 397 West Buff Rd Pt Rober |
| Phone (optional) 604 377-7353 |
| Phone (optional) 604 377-7353 email 16 melenight @ telus. net |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs, Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| No secondaria de la companya de la |
| 2. Do you have specific concerns regarding the management of your property? YES/NO |
| If YES what is the nature of your concern (Check all that apply): |
| \Box rate of erosion of bluff \Box rate of erosion of beach \Box health of beach |
| \Box integrity of protective structures \Box drainage issues \Box shoreline regulations |
| \Box interest in implementing better stewardship practices \Box other: <u>all falour</u> |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO |
| If NO why not? (Check all that apply): |
| \Box No concerns \Box lack of trust in experts \Box assume it will be too expensive |
| Concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| □ concern about cost □ Lack of knowledge of who/how |
| other (please specify) |

MRC

Incentives: Lean 2 bot, red expects, great

Availability Barriers:

HEALTHY BEACH HABITATS - Evaluation

Pexceeded expectations I met expectations I did not meet expectations What I appreciated most about the Healthy Beach Habitats workshop: header don't forage fish, sparing it, very good quel, What could be added to this workshop to enhance its value to coastal property owners? Are you likely to apply any of the information or resources from the workshop in management of your own property? (YES/NO (please specify) Overall, what is the most valuable thing you will take away from this workshop? Spanny ahea **BLUFF EROSION MANAGEMENT - Evaluation** Reveeded expectations I met expectations I did not meet expectations What I appreciated most about the Bluff Erosion Management workshop: Terrifie Inousledy, very clear, sendly What could be added to this workshop to enhance its value to coastal property owners? Low I! Are you likely to apply any of the information or resources from the workshop in management of your own property? (YES/NO) (please specify) Overall, what is the most valuable thing you will take away from this workshop? Vacanons types of sharling protection 12 Sante Soft shake - very interesting I would like more information regarding (Check all that apply): Tuture workshops □ Shore Stewards Program □ Learning more about conservation on my coastal property Green Shores for Homes Program Potential restoration on my coastal property

MRC

We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name Becky Chan Coastal property owner? YE\$/NO Physical Address (optional) Bibo358nd Address of coastal property (if different) fth. Kolzant3 Phone (optional) Buy 30-1200 email buban 1046 Shart email buban 1046 Shart CIRCLE applicable Geasonal resident/permanent resident CIRCLE applicable workshop attended: Biuffs, Beaches, Batb 1. Have you ever attended a similar workshop on coastal processes? If so when/where? ND 2. Do you have specific concerns regarding the management of your property? YES/NO If YES what is the nature of your concern (Check all that apply): If rate of erosion of bluff rate of erosion of beach Integrity of protective structures drainage issues Interest in implementing better stewardship practices other: | |
|--|---|
| Physical Address (optional) Holeo3ford Address of coastal property (if different) fthe Roberts Phone (optional) 604 907-2000 email bubon 10166 5 Journal email bubon 10166 5 Journal CIRCLE applicable: Geasonal resident/permanent resident If YES what is the nature of your concern (Check all that apply): Grate of erosion of bluff Trate of erosion of bluff Trate of ero | NameBecky Chan |
| Address of coastal property (if different) ft Kakent3 Phone (optional) 64 907-2600 email haten 1066 Share CIRCLE applicable: Geasonal resident/permanent resident CIRCLE applicable: Geasonal resident/permanent resident CIRCLE applicable: Geasonal resident/permanent resident CIRCLE applicable workshop attended: Bluffs, Beaches, Gatb 1. Have you ever attended a similar workshop on coastal processes? If so when/where? No 2. Do you have specific concerns regarding the management of your property? YES/NO If YES what is the nature of your concern (Check all that apply): If rate of erosion of bluff rate of erosion of beach integrity of protective structures drainage issues shoreline regulations interest in implementing better stewardship practices other: | Coastal property owner? YE\$/NO |
| Phone (optional) (w) (w) (w) email (w) (w) (w) (w) CIRCLE applicable: (easonal resident/permanent resident CIRCLE applicable workshop attended: Bluffs, Beaches, (w) 1. Have you ever attended a similar workshop on coastal processes? If so when/where? (w) 1. Have you ever attended a similar workshop on coastal processes? If so when/where? (w) 2. Do you have specific concerns regarding the management of your property? (ES/NO If YES what is the nature of your concern (Check all that apply): (w) If rate of erosion of bluff rate of erosion of beach health of beach integrity of protective structures (drainage issues) shoreline regulations interest in implementing better stewardship practices other: (ES/NO 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? (ES/NO If NO why not? (Check all that apply): (Concern about ramifications (please specify) (ES/NO If YES, what would be the obstacles for you to make this happen: (check all that apply) (f YES, what would be the obstacles for you to make this happen: (check all that apply) | |
| email bubon 1016b C Shown CL CIRCLE applicable: Geasonal resident/permanent resident CIRCLE applicable workshop attended: Bluffs, Beaches, Goth 1. Have you ever attended a similar workshop on coastal processes? If so when/where? No 2. Do you have specific concerns regarding the management of your property? VES/NO If YES what is the nature of your concern (Check all that apply): Image: Trate of erosion of bluff Integrity of protective structures Integrity of protective structures Integrity of protective structures Image: source of your structures Image: source of your structures Integrity of protective structures Integrity of protective structures Integrity of protective structures Image: source of your structures Image: source of your structures Image: source of your shoreline? YES/NO If NO why not? (Check all that apply): No concerns lack of trust in experts Image: source of your shoreline? YES/NO If NO why not? (Check all that apply): No concerns lack of trust in experts Imag | Address of coastal property (if different) P+ Kokertz |
| CIRCLE applicable: Geasonal resident/permanent resident CIRCLE applicable workshop attended: Bluffs, Beaches, Gotb 1. Have you ever attended a similar workshop on coastal processes? If so when/where? No No No 2. Do you have specific concerns regarding the management of your property? ✓ES/NO If YES what is the nature of your concern (Check all that apply): ✓If ate of erosion of bluff □rate of erosion of beach □ health of beach □ integrity of protective structures □ drainage issues □ shoreline regulations □ interest in implementing better stewardship practices □ other: | |
| CIRCLE applicable workshop attended: Bluffs, Beaches, (atb) 1. Have you ever attended a similar workshop on coastal processes? If so when/where? NO 2. Do you have specific concerns regarding the management of your property? VES/NO If YES what is the nature of your concern (Check all that apply): arate of erosion of bluff arate of erosion of beach health of beach anterest in implementing better stewardship practices other: 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? No why not? (Check all that apply): No concerns alack of trust in experts assume it will be too expensive concern about ramifications (please specify) ff YES, what would be the obstacles for you to make this happen: (check all that apply) Concern about cost alack of knowledge of who/how | email behan 1066 C shawi Ce |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? No 2. Do you have specific concerns regarding the management of your property? VES/NO If YES what is the nature of your concern (Check all that apply): arate of erosion of bluff arate of erosion of beach health of beach integrity of protective structures drainage issues shoreline regulations interest in implementing better stewardship practices other: 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? If NO why not? (Check all that apply): No concerns lack of trust in experts assume it will be too expensive concern about ramifications (please specify) other (please specify) If YES, what would be the obstacles for you to make this happen: (check all that apply) Concern about cost Lack of knowledge of who/how | CIRCLE applicable: Seasonal resident/permanent resident |
| No 2. Do you have specific concerns regarding the management of your property? YES/NO If YES what is the nature of your concern (Check all that apply): If rate of erosion of bluff rate of erosion of beach health of beach Integrity of protective structures drainage issues shoreline regulations Interest in implementing better stewardship practices other: | CIRCLE applicable workshop attended: Bluffs, Beaches, Both |
| 2. Do you have specific concerns regarding the management of your property? YES/NO If YES what is the nature of your concern (Check all that apply): I rate of erosion of bluff arate of erosion of beach health of beach i integrity of protective structures drainage issues shoreline regulations i interest in implementing better stewardship practices other: 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO If NO why not? (Check all that apply): No concerns lack of trust in experts assume it will be too expensive concern about ramifications (please specify) If YES, what would be the obstacles for you to make this happen: (check all that apply) I concern about cost lack of knowledge of who/how | 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| If YES what is the nature of your concern (Check all that apply): rate of erosion of bluff arate of erosion of beach health of beach integrity of protective structures drainage issues shoreline regulations interest in implementing better stewardship practices other: 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? If NO why not? (Check all that apply): No concerns lack of trust in experts assume it will be too expensive concern about ramifications (please specify) If YES, what would be the obstacles for you to make this happen: (check all that apply) Concern about cost lack of knowledge of who/hôw | No |
| □ rate of erosion of bluff □ rate of erosion of beach □ health of beach □ integrity of protective structures □ drainage issues □ shoreline regulations □ interest in implementing better stewardship practices □ other: | 2. Do you have specific concerns regarding the management of your property? VES/NO |
| □ integrity of protective structures □ drainage issues □ shoreline regulations □ interest in implementing better stewardship practices □ other: | If YES what is the nature of your concern (Check all that apply): |
| ☐ interest in implementing better stewardship practices ☐ other: 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO If NO why not? (Check all that apply): ☐ No concerns ☐ lack of trust in experts ☐ assume it will be too expensive ☐ concern about ramifications (please specify) | ☐ rate of erosion of bluff ☐ rate of erosion of beach ☐ health of beach |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO If NO why not? (Check all that apply): No concerns all lack of trust in experts assume it will be too expensive concern about ramifications (please specify) other (please specify) If YES, what would be the obstacles for you to make this happen: (check all that apply) If YES, what would be the obstacles for you to make this happen: (check all that apply) | □ integrity of protective structures □ drainage issues □ shoreline regulations |
| suggestions to help you improve long term management of your shoreline? YES/NO If NO why not? (Check all that apply): No concerns I lack of trust in experts assume it will be too expensive concern about ramifications (please specify) other (please specify) If YES, what would be the obstacles for you to make this happen: (check all that apply) Concern about cost I Lack of knowledge of who/how | □ interest in implementing better stewardship practices □ other: |
| □ No concerns □ lack of trust in experts □ assume it will be too expensive □ concern about ramifications (please specify) | |
| □ concern about ramifications (please specify) □ other (please specify) If YES, what would be the obstacles for you to make this happen: (check all that apply) ☑ concern about cost □ Lack of knowledge of who/hôw | If NO why not? (Check all that apply): |
| □ other (please specify) | \Box No concerns \Box lack of trust in experts \Box assume it will be too expensive |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) | concern about ramifications (please specify) |
| Concern about cost Lack of knowledge of who/how | other (please specify) |
| | If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| Mother (please specify) have to go & check on amount of crossion | Concern about cost Lack of knowledge of who/how |
| | Dother (please specify) have to go & check on amount of crossion |

4. What are incentives and barriers to participating in educational workshops such as these? Incentives: of Knowledge

Barriers: distance, time

HEALTHY BEACH HABITATS - Evaluation

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify) dm't gu to property that much

Overall, what is the most valuable thing you will take away from this workshop? Knowledge of tidal spanning in Sand.

BLUFF EROSION MANAGEMENT - Evaluation

 \Box exceeded expectations \square met expectations \square did not meet expectations

What I appreciated most about the Bluff Erosion Management workshop: Talk was over my head but good eye opener. Will work into on properly free What applies - Exclusive rem hice

What applies. Stephanie very nice. What could be added to this workshop to enhance its value to coastal property owners? Maybe let is know who are on neighbors, it from Pt. Robert 5?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

Erosion awareness

□ Shore Stewards Program □ Learning more about conservation on my coastal property

Green Shores for Homes Program Potential restoration on my coastal property



We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name BONIT ANDRENS |
|---|
| Coastal property owner? (YES)NO |
| Physical Address (optional) 5727 NARAT WAY - BBVILLAG |
| Address of coastal property (if different) |
| Phone (optional) 360.305.4246 |
| email BONNE. ANDREWS ECONCAST. NET |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? \mathcal{NO} |
| 2. Do you have specific concerns regarding the management of your property? YES/NO If YES what is the nature of your concern (Check all that apply): |
| ${\boxtimes}$ rate of erosion of bluff \Box rate of erosion of beach \Box health of beach |
| Kintegrity of protective structures of drainage issues shoreline regulations |
| Arinterest in implementing better stewardship practices other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO If NO why not? (Check all that apply): |
| □ No concerns □ lack of trust in experts □ assume it will be too expensive |
| concern about ramifications (please specify) |
| Other (please specify) HAVE GEOTECH EVAL |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| □ concern about cost □ Lack of knowledge of who/how |
| Other (please specify) |



Incentives: INFORMATION HELPS DEVELOP A KEEN SENSE FOR THE OBVIOUS

Barriers:

HEALTHY BEACH HABITATS - Evaluation COULDNT AHTNO

exceeded expectations met expectations did not meet expectations What I appreciated most about the *Healthy Beach Habitats* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

BLUFF EROSION MANAGEMENT - Evaluation

 $/\Sigma$ exceeded expectations \Box met expectations \Box did not meet expectations

What I appreciated most about the *Bluff Erosion Management* workshop:

FIELD TRIP; REAL LIFE EXAMPLES OF EXACT MATERIAL CAVERED IN CLASSROOM. What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? (YES)NO (please specify) CLOSE EXAMINATION OF BLUEF VESETATION to DETERMINE WET / DRY SUB'SUCFACE CONDITIONS TO AID IN PLANT SELECTION Overall, what is the most valuable thing you will take away from this workshop?

PERFORM MORE DETAILED EXAMINATION OF MYBLUFF TO MAP MICRO CONDITIONS

I would like more information regarding (Check all that apply): I Future workshops

□ Shore Stewards Program □ Learning more about conservation on my coastal property

Green Shores for Homes Program Potential restoration on my coastal property



We appreciate your interest in the Living with the Coast Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name Ann Spink |
|---|
| Coastal property owner? |
| Physical Address (optional) |
| Address of coastal property (if different) |
| Phone (optional) |
| email |
| CIRCLE applicable: (seasonal resident) permanent resident |
| CIRCLE applicable workshop attended: Bluffs, Beaches, Both |
| 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| nd. |
| |
| 2. Do you have specific concerns regarding the management of your property? YES/NO |
| If YES what is the nature of your concern (Check all that apply): |
| \Box rate of erosion of bluff \Box rate of erosion of beach \Box health of beach |
| □ integrity of protective structures □ drainage issues □ shoreline regulations |
| □ interest in implementing better stewardship practices □ other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific suggestions to help you improve long term management of your shoreline? YES/NO If NO why not? (Check all that apply): |
| \Box No concerns \Box lack of trust in experts \Box assume it will be too expensive |
| concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| □ concern about cost □ Lack of knowledge of who/how |
| other (please specify) |

4. What are incentives and barriers to participating in educational workshops such as these? Incentives: Knowledge of the area

Barriers: time

HEALTHY BEACH HABITATS - Evaluation

□ exceeded expectations □ met expectations 2 did not meet expectations What I appreciated most about the *Healthy Beach Habitats* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

BLUFF EROSION MANAGEMENT - Evaluation

 \Box exceeded expectations \Box met expectations \boxtimes did not meet expectations

What I appreciated most about the *Bluff Erosion Management* workshop: rebuilding beaches

What could be added to this workshop to enhance its value to coastal property owners? More info on Vegitation

Are you likely to apply any of the information or resources from the workshop in management of your own property? (YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

I would like more information regarding (Check all that apply): □ Future workshops □ Shore Stewards Program □ Learning more about conservation on my coastal property □ Green Shores for Homes Program □ Potential restoration on my coastal property

MRC

We appreciate your interest in the *Living with the Coast* Workshops. The target audience for these workshops is coastal property owners. Please help us learn more about your needs and concerns by answering the following questions. Responses will be used to design future outreach programs and resources. (Please feel free to write additional comments on scratch paper)

| Name 10m & Nan Inomas |
|--|
| Coastal property owner? (YES)NO |
| Coastal property owner? (YESYNO Physical Address (optional) 5733 Nakat Way Blaink WA |
| Address of coastal property (if different) |
| Phone (optional) |
| email |
| CIRCLE applicable: seasonal resident/permanent resident |
| CIRCLE applicable workshop attended: Bluffs, Beaches, Both and Swark wark |
| CIRCLE applicable: seasonal resident/permanent resident CIRCLE applicable workshop attended: Bluffs, Beaches, Both 1. Have you ever attended a similar workshop on coastal processes? If so when/where? |
| n en |
| 2. Do you have specific concerns regarding the management of your property? (YES/NO |
| If YES what is the nature of your concern (Check all that apply): |
| \Box rate of erosion of bluff \Box rate of erosion of beach \Box health of beach |
| □ integrity of protective structures □ drainage issues □ shoreline regulations |
| □ interest in implementing better stewardship practices □ other: |
| 3. Would you be interested in an expert site visit in order to obtain site specific YES/NO suggestions to help you improve long term management of your shoreline? YES/NO If NO why not? (Check all that apply): |
| |
| □ No concerns □ lack of trust in experts □ assume it will be too expensive |
| concern about ramifications (please specify) |
| other (please specify) |
| If YES, what would be the obstacles for you to make this happen: (check all that apply) |
| □ concern about cost □ Lack of knowledge of who/how |
| other (please specify) |
| |



HEALTHY BEACH HABITATS - Evaluation didn't atkind

□ exceeded expectations □ met expectations □ did not meet expectations What I appreciated most about the *Healthy Beach Habitats* workshop:

What could be added to this workshop to enhance its value to coastal property owners?

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

BLUFF EROSION MANAGEMENT - Evaluation

 \square exceeded expectations \square met expectations \square did not meet expectations

What I appreciated most about the *Bluff Erosion Management* workshop:

* ideas of what to do for blug crossin * lots of great information b What could be added to this workshop to enhance its value to coastal property owners? More locally specific

Are you likely to apply any of the information or resources from the workshop in management of your own property? YES/NO (please specify)

Overall, what is the most valuable thing you will take away from this workshop?

I would like more information regarding (Check all that apply): □ Future workshops □ Shore Stewards Program □ Learning more about conservation on my coastal property □ Green Shores for Homes Program □ Potential restoration on my coastal property

MRC

| Name | Address | Region | seasona | I Length | phone | email | owner | perm/se asonal | workshop attended | attended similar workshop | specific concerns* | site visit? | why or why not? | workshop incentives | workshop barriers | HB wksp met expectation | to add2 | HB will you apply? | HB best content | BF wksp met expectation | BF what to add? | BF will you apply? | BF best content | Future workshop | Shore stewards | Greensh ores | Conservati on | Restora on |
|---------------------------------|--|-------------|---------------|-------------|--------------|--|------------------|-------------------|----------------------|---------------------------------|-----------------------|----------------|---|--|---|----------------------------|-----------------------------|--------------------------|--|-------------------------|--|-------------------------------|---|--------------------|-------------------|-----------------|------------------|---------------|
| Ann Spink | | | | | | | Y | S | Bluff | N | N | Ν | | local knowledge | time | N | | | | N | more information on vegetation | Y | rebuilding beaches | | | | | |
| Bonnie Andrews | 5727 Nakat Way, Birch Bay Village | BB | | 5+ | 360.305.4246 | bonnie.andrews @comcast.net | Y | Р | Bluff | N | BfER, AR, DI, BS | N | have geotech | knowledge | | | | | | Y | | vegetation informatio n | detailed understanding of bluff | Y | | | | |
| Becky Chan | | PR | CND | | 604.807.2020 | <u>bchan1066@sha</u> <u>w.ca</u> | Y Y | S | both | N | BfER | Y | cost concern, lack of knowledge to whom? Wants to check erosion rate | increase knowledge | distance, time | Y | | N | intertidal spawning | Y | connect neighbors or have more local content | maybe | erosion awareness | | | | | |
| Bryan McKnight | 397 West Bluff Rd, Pt Roberts | PR | CND | | 604.377-7353 | <u>ibmcknight@telu</u> <u>s.net</u> | Y | S | both | N | all | Y | | knowledge, great speakers | time | Y | | Y | intertidal spawning | Y | again on pt roberts | Y | types of shoreline protection | Y | | | | |
| Bernard and Elaine Klop | 9545 Gibson Rd Chilliwack, BC | BB | CND | 2-5 | 604-792-8088 | bklop@caylix.co <u>m</u> | Y | S | Bluff | N | BfER, SR | Y | cost concern | knowledge | none | | | | | Y | | Y | resources | Y | | | Y | |
| Berniece Piwek | 8831 Oertel Dr Blaine, 98230 | SM | | 5+ | 360.393.4584 | bpiwek@mac.co <u>m</u> | Y | Р | Bluff | N | N | Y | cost concerns, lack of knowledge as to who | knowledge | none | | | | | Y | | Y | clarity, information, how to interpret on their bluff | Y | | | | |
| Brian Piwek | 8831 Oerter Dr, Blaine | SM | | 5+ | 360.393.4584 | bpiweic@mac.co m | <mark>)</mark> Y | Р | Bluff | N | BfER | Y | cost | | | | | | | Y | | Y | erosion, beach restoration and management | Y | | | | |
| Carol Rice | 5751 Nakat Way, Blaine, WA | BB | | 5+ | | crclcr@gmail.co m | Y | Р | both | N | BfER, DI, BS | Y | cost concerns, lack of knowledge as to who | knowledge | | Y | | Y | bluff plantings | Y | | Y | bluff erosion is natural | Y | Y | Y | | |
| Carol and Dave Duffy | 13518 178 Ave SE Renton, WA 98050 | SM | Renton | n 5+ | 425.226.3274 | djdffy@aol.com | Y | S | both | N | | | | knowledge | | Y | | | info | | | | information | | | | | |
| Jim Rasar | 8958 Semiahmoo Dr, Blaine WA 98230 | SM | | 5+ | | | Y | Р | Bluff | N | BfER, DI, BS | N | no concerns | knowledge | | | | | | Y | | Y | bluff plantings | Y | Y | | | Y |
| Knowltons | 2067 Bayview Ave | BL | | | | naomiknowlton @yahoo.com | Y | Р | both | N | BfER, DI, SR | N | too expensive | knowledge | 1 | Y | time for lunch | Y | | Y | time for lunch | Y | | Y | | Y | | |
| Karen Carlson | 2220 Mont Fort Blaine, WA 98230 | BL | | 5+ | | carlsonkrn@msn .com | Y | Р | Bluff | N | BfER,Di, SR | Ν | too expensive, cost concerns | | | | | | | Y | | Y | vegetation planting, bulkheads are destructive, gravel and vegetation better | | | | | |
| Keats Gaman | 8710 Oertel Dr | BB | | 5+ | 371-3554 | keatsandgail@c omcast.net | Y | Р | both | Y | DI | Y | | | | Y | | Y | | Y | vegetation suggestions | Y | | Y | | Y | Y | Y |
| Ken Shannon | 5697 Nakat Way | BB | BB | | | kshannon26a@c omcast.net | Ŷ | S | Bluff | N | BfER, BS | N | too expensive, cocnerns with ramifications, | knowledge | | | | | | Y | more focus on beach owners less plate techtonics | Y | slope stability information | Y | | | | |
| L Churhcward | 8234 Birch Bay Dr | BB | | 5+ | 360.201.8146 | louinda@honorle vel.com | e Y | Р | both | Y | BH, DI, BS | Y | too expensive, concern about cost | | time | Y | emphasiv e sack lunch | Y | clams, bulkheads, habitats | Y | | N | importance of setback distances | Y | | | | |
| Lynn Rose | 7356 Seashell Way, Blaine, WA | BB | BL | 0-2 | | Lrose1565@msn .com | Y | S | both | N | ER, BchER, HB, | N | too expensive | knowledge | | Y | | Y | watch out for fish habitat and protect | Y | | Y | bluff vegetation | Y | | Y | Y | Y |
| Magie Bell | 2057 Bayview Ave Blaine, WA | BL | | | | gmbell07@comc ast.net | Ŷ | Р | both | N | BchER, HB, DI, S | Y | cost concerns, lack of knowledge as to who | knowledge, climate change | , time, follow up, resources | Y | | Y | new knowledge of species, renewed interest | Y | more on resources available | Y | vegetation planting on bluff | Y | Y | | Y | |
| R Hoffman | 1150 Paradise Rd Ferndale, WA | EL | FE | 5+ | 384-0348 | | | undevelop ed | both | N | BfER, SR, BS | Y | cost concern | knowledge | | Y | | Y | fish habitat | Y | | Y | vegetation planting | Y | | | | |
| Ron Sangura | 8531 Semiahmoo Dr, 7271 Bridge St, Richmond BC | SM | CND | 5+ | 604-279-9966 | rons@lesliefores <u>t.com</u> | Ŷ | S | Bluff | N | BfER, DI, BS | Y | cost concern | knowledge | | | | | | Y | | Y | what to do to slow erosion | | | | | Y |
| Tom and Nan Thomas | 5733 Nakat Way, Blaine WA | BB | | 0-2 | | | Y | Р | Bluff | N | BfER, | Y | | | nice weather! | | | | | Y | local specifics | Y | beach walk showed applied knowledge, what to do to slow bluff erosion | | | | | maybe |
| * indicates responses via s | | ons, but di | d not fill ou | ut evaluati | ion form | 1 | | | | | | | | knowledge. | 1 | | | | | | | | | | | | | |
| Bevan Wilson* | 8997 Semiahmoo Dr, Blaine, WA 98230 | SM | | 5+ | 604-318-9399 | bevanwilson@tel | Y | S | Bluff | | Di, BfER, | Y | | great speakers | ' conflicts btwn Depts | | | | | | | | | | | | | |
| Dan Maus* | 6889 Holeman Ave, Blaine, WA 98230 | BB | | 5+ | 206.714.8900 | dmaus@themau sgroup.com | Y | | Bluff | | BfER | Y | | | | | | | | | | | | | | | | |
| Jane and Bruce Montegani* | 6893 Holeman Ave, Blaine, WA 98230 | BB | | 5+ | 360-371-0403 | bruce@montega | Y | Р | Bluff | | BfER | Y | | financial incentives available | working with local gov. regulations | | | | | | | | | | | | | |
| Ken Kaliher and Mary Mooney* | 1207 Chuckanut Dr | СН | | 0-2 | 360.734.2096 | kenkaliher@hotm | Y | Р | both | | BH, SR, BS | | | knowledge | don't know | | | | | | | | | | | | | |
| Mark Gascon* | PO Box 1067, Ferndale, WA 98248 | | | | 960.319.6304 | <u>markstuf@gmail.</u> <u>com</u> | | | both | | BfER | | | financial incentives available | none | | | | | | | | | | | | | |
| Rhyon Caldwell* | 429 Bluff Rd, Pt Roberts, WA 98 | PR | CA | 5+ | 604-505-0223 | rcaldwell1@vaho | Y | S | | | Di, BS, BfER | Y | build house in next 2 yrs | knowledge on shoreline regs | time | | | | | | | | | Y | | | | |
| Sandra Abernathy* | 6905 Holeman Ave Blaine, WA 98230 | BB | | 5+ | 360-371-5794 | sandaber2@com cast.net | Y | Ρ | both | | BfER, BH, BS | | | knowledge, vegetation to help bluff stability | | | | | | | | | js. (SR), better stewardship (BS), other | | | | | |

Appendix 4. Workshop Evaluation Responses Spreadsheet