

Appendix Q: List of Recommended Salmon Recovery & Conservation Actions in Bainbridge Island Sub-Area

Note: Action items are grouped when similar, they are listed in no particular order, and Action ID does not indicate priority.

| Action ID | Objectives | Description | Status/ Timeframe | Lead ¹ | FTE, Cumulative Est. (.1 = 5 wks FT) | Non-staff Cost | Priority | Subwatershed ² | Stream Reach | Shoreline Management Area ³ | Nearshore Reach | Fulfills Recommendation of Anther Plan or Legal Mandate |
|--|--------------|---|-------------------------|-------------------|--|--|----------|---------------------------|--------------|--|-----------------|---|
| Adaptive Management Actions (updates, monitoring, data gaps, etc) | | | | | | | | | | | | |
| 1 | AM-1 AM-4 | Review & update the Bainbridge Island Salmon Recovery and Conservation Sub-Area Plan <ul style="list-style-type: none"> Update at least every 7-years | | | | | | | | | | |
| | | Task: Review and update BI Sub-Area Plan in preparation for 2011 Comprehensive Plan, CAO, and SSWM updates <ul style="list-style-type: none"> Update subwatershed projects and prioritization when comprehensive subwatershed assessment is completed Update nearshore projects and prioritization following the update of the BI Nearshore Assessment (action 12) and completion of the SMMP update and mandatory shoreline restoration plan (action 9) | 2009 | NRT | .25 | Unknown | High | All | All | All | All | GMA mandate: Provides best available science and basis for special consideration for anadromous fisheries |
| | | Task: Review and update BI Sub-Area Plan in preparation for 2018 Comprehensive Plan, SMMP, CAO, and SSWM updates. | 2016 | | .25 | Unknown | | All | All | All | All | |
| 10 | AM-2 AM-3 | Comprehensive Water Quality and Stream Flow Monitoring Program <ul style="list-style-type: none"> Design & pilot funded by Centennial Clean Water Grant, no funding dedicated yet to long term implementation Ambient level monitoring of WQ in all watersheds and shoreline management areas; exceedance of standards would trigger further investigation Several continuous in-stream flow gauges will be installed and other streams will likely be monitored using portable equipment. Stream flow monitoring should be coordinated with groundwater monitoring (action 13) Coordinated with state and local agencies Will utilize volunteer stewards during implementation, as appropriate Implements part of recommendations of the BI Nearshore Assessment (Williams et al 2004, Appendix F) | | | | | | | | | | |
| | | Task: Design Monitoring Program <ul style="list-style-type: none"> Review of historic data Will try to be consistent with existing efforts & guidance, including WDFW/GSRO/SRFB/PSAMP monitoring recommendations | 2005-2006 | | .25 | \$198,650 (grant) \$80,000 (COBI) Volunteers | High | All | All | All | All | |
| | | Task: Pilot Implementation & Review <ul style="list-style-type: none"> Includes full monitoring effort for 1 year in at least 2 watersheds and shoreline management areas Protocols and methods reviewed and revised based on pilot Pilot Implementation Report | 2006-2007 | SSWM & SSP | .25 | | | TBD | - | TBD | - | |
| | | Task: Full Implementation of program <ul style="list-style-type: none"> 11 subwatersheds (28 sq miles) and 9 shoreline management areas (53 miles) | 2008 (begin) ongoing | | .5 - 1 | Unknown: Consultants Operations | | All | All | All | All | |

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|-----------|------------|---|----------------------|-------------------|--|-------------------------|----------|---------------------------|--------------|--|-----------------|--|--|
| | | <ul style="list-style-type: none"> Scientific basis for recommended actions and state-mandated policy & regulation updates Integrate findings into bi-annual report (action 2) | | | | Equipment Volunteers | | | | | | | |
| 11 | AM-3 | BI Sub-Watershed Assessment <ul style="list-style-type: none"> Scientific basis for recommended actions and state-mandated policy & regulation updates Update at least every 7-years Integrate into future updates of East Kitsap Lead Entity Strategy and Kitsap Refugia Report | | | | | | | | | | | |
| | | Task: Conduct Assessment <ul style="list-style-type: none"> Inventory and characterize subwatersheds (habitat, fish passage, hydrology, land use, etc) Assess ecological function/impairment Identify recommended actions to achieve goals and objectives Develop tools to evaluate project-level and planning-level cumulative impacts/benefits Integrate into 2009 Bainbridge Island Salmon Recovery and Conservation Sub-Area Plan Integrate as BAS into 2011 Comp Plan, CAO, and SSWM updates | 2006-2008 | NRT | .5 - 1 | Unknown | High | All | All | - | - | | |
| | | Task: Update Assessment <ul style="list-style-type: none"> Integrate into 2016 Bainbridge Island Salmon Recovery and Conservation Sub-Area Plan update Integrate as BAS into 2018 Comp Plan, SMMP, CAO, and SSWM updates | 2015 | | .25 | Unknown | | | | | | | |
| 12 | AM-3 | BI Nearshore Assessment <ul style="list-style-type: none"> Inventory and characterization of nearshore Assesses ecological function/impairment Scientific basis for recommended actions and state-mandated policy & regulation updates related to nearshore Provides tools to evaluate project-level and planning-level cumulative impacts/benefits Update at least every 7-years Integrate into future updates of East Kitsap Lead Entity Strategy and Kitsap Refugia Report | | | | | | | | | | | |
| | | Task: Integrate into 2005-2007 SMMP Update (task 9) | 2005-2007 | | | | | | | | | | |
| | | Task: Update Assessment <ul style="list-style-type: none"> Update inventory, characterization, and assessment Integrate into 2009 Bainbridge Island Salmon Recovery and Conservation Sub-Area Plan Integrate as BAS into 2011 Comp Plan, CAO, and SSWM updates | 2008 | SSP | .3 | Unknown | High | - | - | All | All | | |
| | | Task: Update Assessment <ul style="list-style-type: none"> Update inventory, characterization, and assessment Integrate into 2016 Bainbridge Island Salmon Recovery and | 2015 | | .3 | Unknown | | | | | | | |

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|-----------|--------------|--|---|---------------------------|--|------------------------|----------|---------------------------|--------------|--|-----------------|--|
| | | Conservation Sub-Area Plan update <ul style="list-style-type: none"> Integrate as BAS into 2018 Comp Plan, SMMP, CAO, and SSWM updates | | | | | | | | | | |
| # | AM-2 AM-3 | Salmon Population Monitoring <ul style="list-style-type: none"> Evaluate and monitor salmon distribution (historical, existing, & potential future extent) and abundance. Work with WDFW, Suquamish Tribe, and watershed council to develop appropriate and efficient methods Review current beach seining efforts and revise as necessary to further evaluate salmon presence, distribution, and habitat associations/functions The best methods for distribution and abundance monitoring are likely spawner counts, snorkeling/electroshocking, & beach seining | Watersheds – Start 2006 Nearshore – Continue | NRT w/ Tribe & WDFW | <.1 | Unknown | High | All | Many | All | All | GMA, CAO, SMMP |
| # | AM-2 AM-3 | Forage Fish Surveys <ul style="list-style-type: none"> Existing surveys of forage fish spawning beaches were done sporadically and opportunistically, leaving large areas that were not surveyed as well as areas not surveyed over and extended period of time Recent comprehensive surveys in Jefferson, San Juan, and Island Counties have shown that significant data gaps are highly likely for spawning beach distribution Work with WDFW, the Suquamish Tribe, and the Shoreline Stewardship Program to design and conduct a comprehensive survey of beaches with suitable substrate for forage fish spawning activity Integrate results into 2008 Nearshore Assessment update (action 12) | 2006-2008 | SSP w/ Tribe & WDFW | <.1-.2 | Minimal: Volunteers | High | - | - | All | Many | GMA, CAO, SMMP |
| # | AM-2 AM-3 | Sea Bed Mapping <ul style="list-style-type: none"> Map the distribution and abundance of submerged aquatic vegetation and other species Map the distribution of subtidal substrate & bathymetry Integrate results into 2005-2007 SMMP Update (action 9) Integrate results into 2008 Nearshore Assessment update (action 12) | 2006 | SSP | <.1-.2 | \$50-100,000 | High | - | - | All | All | GMA, CAO, SMMP |
| # | AM-2 AM-3 | Drift-Cell Sediment Budget Analysis <ul style="list-style-type: none"> Map feeder bluffs, transport, and depositional zones Estimate a sediment budget for each drift-cell using historic and contemporary information Assess drift-cell function Integrate results into 2005-2007 SMMP Update (action 9) Integrate results into 2008 Nearshore Assessment update (action 12) | 2006 | SSP | <.1-.2 | Unknown | High | - | - | All | All | GMA, CAO, SMMP |
| 13 | AM-3 | Groundwater Monitoring Program <ul style="list-style-type: none"> Relevant to plan as far as relationship with in-stream flows Program should integrate with surface water monitoring, as appropriate Could be integrate into 2006-2008 subwatershed assessment | Unknown | PW | ? | Unknown | High | All | - | - | - | GMA; CAO; SSWM; Watershed Planning Act; Level-II Basin Assessment; |
| 14 | AM-3 | Subsurface Geologic Mapping <ul style="list-style-type: none"> Underway by UW/USGS Relevant to plan as far as relationship with in-stream flows Integrate into 2006-2008 subwatershed assessment | 2004-2005 | ENG | <.1 | ?? \$180,000+ | High | All | All | All | All | GMA; CAO; SSWM; SMMP; Watershed Planning Act; Level-II Basin Assessment; |
| 15 | AM-3 | Surface Geologic Mapping (UW/USGS) | 2000-2005 | ENG | <.1 | Unknown | High | All | All | All | All | GMA; CAO; SSWM; |

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|--------------------------|----------------------|---|---|-------------------|--|-------------------|---------------|---------------------------|--------------|--|-----------------|--|
| | | <ul style="list-style-type: none"> Underway by UW/USGS Useful for identifying unstable slopes (nearshore feeder bluffs, possible risk of sedimentation to streams) Possibly useful for evaluating in-stream flow & interflow Integrate into 2006-2008 subwatershed assessment | | | | | | | | | | SMMP; Watershed Planning Act; Level-II Basin Assessment; |
| # | AM-2 AM-3 AM-4 | Data Management <ul style="list-style-type: none"> Coordinate and maintain on an interdepartmental basis Georeferenced when ever possible Compatible and shared with local and state databases | Ongoing | NRT | <.1 | Minimal | High | - | - | - | - | |
| Community Actions | | | | | | | | | | | | |
| 2 | C-2 C-5 C-6 | Salmon Recovery and Conservation Report Addressing the following: <ul style="list-style-type: none"> Are proposed actions getting implemented on schedule and within planning cost estimates? Are effectiveness and validation monitoring showing overall improvements or declines? Is the community supportive of efforts? Are there procedural impediments to implementing the plan? Are resources and funding adequate to implement the plan? Are there recommended or needed changes to the plan prior to next iterative update? These could be based on: <ul style="list-style-type: none"> New scientific information, Change in funding/resources (+/-), Legal issues ↻ Preferably, this would be integrated into a larger bi-annual stewardship/indicators report for the Island's ecosystem, community, and economy. | (Bi-annually) 2006 2008 2010 2012 2014 2016 2018 | NRT | <.1 | Minimal | High | | | | | |
| 3 | C-5 | Community Survey <ul style="list-style-type: none"> Measure community awareness and support for salmon recovery and conservation, in part, through the periodic Community Values Survey conducted by COBI. | (At least twice every seven years) 2006 2009 2012 2016 | EXEC & NRT | <.1 | Unknown | Moderate/High | | | | | |
| 4 | C-1 C-2 C-5 | Annual Stewardship Event <ul style="list-style-type: none"> Continue annual shoreline stewardship event and expand to include watershed stewardship Share stewardship successes/setbacks, discuss trends, build support for next steps Opportunity for guest speakers, booths, community building, community dialogue Coincide event with the release of the bi-annual report (task 2) | Annual | NRT & WC | <.1 | Minimal | Moderate | | | | | |
| 5 | C-1 | Annual Salmon Homecoming event | Annual | WC & | <.1 | Unknown | Moderate | | | | | |

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|----------------------------------|-----------------------------------|---|--|-------------------|--|-------------------|-------------------|---------------------------|--------------|---|-----------------|---|
| | C-2 C-5 | <ul style="list-style-type: none"> Guided community tours of salmon habitat and projects Guest speakers on relevant current topics | | NRT | | | | | | | | |
| Policy/Regulatory Actions | | | | | | | | | | | | |
| 6 | E-1 - 5 C-3 - 4 C-7 | Comprehensive Plan Update <ul style="list-style-type: none"> Created Environment Element in 2004 Working on indicators – 2005 (don't know if/how these will relate to salmon recovery yet) | 2011 2018 | PCD | 1.5-2 | Unknown | High, Required | All | All | All | All | GMA |
| 7 | E-1 - 5 C-3 - 4 C-7 | CAO Update <ul style="list-style-type: none"> Consistent with mandatory BAS requirement [cite RCW/WAC] Consistent with mandatory special consideration for anadromous fish [cite RCW/WAC] Include non-regulatory components to improve public awareness, provide community assistance, and encourage voluntary stewardship actions | 2005 2011 2018 | PCD | .75-1 | Unknown | High, Required | All | All | All | All | GMA; Salmon Recovery Act |
| 8 | E-1 - 5 C-3 - 4 C-7 | SSWM Ordinance Update <ul style="list-style-type: none"> COBI is NPDES Phase-II city Adopt 2001 Ecology Manual in 2005 Encourage Low Impact Development and other green building techniques | 2005 2011 2018 | SSWM | .25-.5 | Unknown | High, Required | All | All | All | All | GMA; Clean Water Act |
| 9 | E-1 - 5 C-3 - 4 C-7 | SMMP Update <ul style="list-style-type: none"> Consistent with mandatory No net loss [cite RCW/WAC] Consistent with mandatory Shoreline Restoration Planning [WAC 173-26-201(2)(f)], which will include appropriate aspects of this salmon recovery and conservation plan Utilize Nearshore Assessment (task 12) as part of technical basis Include non-regulatory components to improve public awareness, provide community assistance, and encourage voluntary stewardship actions | 2005-2007 (Required by 2011); 2018 | PCD | 1-1.5 | Unknown | High, Required | - | - | All | All | SMA; ESA; Salmon Recovery Act |
| # | E-1 - 5 C-3 C-7 | Public Benefit Rating System (Open Space Tax Relief) <ul style="list-style-type: none"> Work with Kitsap County to review and revise the existing public benefit rating system, so that it can be reasonably applied to shoreline property and small lots. | 2007-2008 | PCD | <.1 | Minimal | Medium/ High | All | All | All | All | |
| # | C-8 | Habitat, Harvest, & Hatchery Integration <ul style="list-style-type: none"> Work with WDFW, the Suquamish Tribe, and others to ensure that local and regional salmon populations are recovered and conserved | Ongoing | NRT | <.1 | Unknown | High | All | All | All | All | ESA; Salmon Recovery Act |
| Nearshore Habitat Actions | | | | | | | | | | | | |
| 16 | E-1 - 5 C-4 C-6 – 7 AM-1 | Shoreline Roads Study <ul style="list-style-type: none"> Planning-level evaluation regarding alternative solutions to shoreline roads with chronic erosion, slide, and flooding problems. Study is planned to include: Manitou Beach Rd; Country Club Rd; Rockaway Beach Most of these roads are built on bluffs subject to erosion or fill that has buried intertidal, backshore, and marsh habitat as well as eliminated most, if not all, riparian vegetation. Use BI Nearshore Assessment to evaluate the benefits/impacts of alternative solutions and determine preferred options. | 2005 | ENG | <.1-2 | \$100,000 | High | - | - | BH EH MC Possibly: PW-BP RB-PM | | |

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|-----------|------------|---|----------------------|-------------------|--|-------------------|----------|-------------------------------|--------------|--|-----------------|--|
| | | <ul style="list-style-type: none"> ➡ This study should give serious evaluation to long-term alternatives to armoring and other practices that would help restore and reduce risks to salmon habitat, such as: realignment/ relocation; reclassification to residential and possibly narrowing or even disconnecting through traffic. ➡ Additional shoreline roads that currently or could impact salmon habitat include: Eagle Harbor Drive; Crystal Springs Rd; Moran Rd; and Pt. White Drive. These roads should be integrated into the study or addressed in a similar fashion. ➡ Reducing or eliminating habitat impacts from shoreline roads are among the most significant (in both scale & benefit) habitat projects within the Bainbridge Island nearshore. ➡ Implementing high-visibility public projects becomes a model and motivator for voluntary projects on private property. ➡ Implementing public projects shares burdens and benefits among the community as a whole and allows for potential integration of public amenities, such as non-motorized travel corridors, open space, and shoreline access. | | | | | | | | | | |
| # | # | <p>Moran Rd</p> <ul style="list-style-type: none"> ▪ The northern portion of Moran Rd is unstable and several slides have occurred during the last 2-3 years. This section of road runs parallel to one of the largest and most functional stream mouth subestuaries on the Island. A significant slide could create a complete blockage of the Murden Cove watershed and bury estuarine habitat. ▪ The BI Nearshore Assessment currently rates this area as “no impact,” although the road fill was not accounted for and has likely reduced the extent of the floodplain and resulted in some impacts. ▪ A geotechnical assessment should be conducted and used to evaluate risks to habitat and human safety. ▪ Additional community issues should be evaluated, including traffic connectivity and the functional safety of the nearby intersection with Manitou Beach Rd/SR-305. ▪ Action alternatives should minimize the habitat risk while avoiding new long-term impacts. | | | | | MC | Murden Cove/Grisdale Ck | MC | 3171 | | |
| # | # | <p>Country Club Rd</p> <ul style="list-style-type: none"> ▪ Realign road away from shoreline, remove bulkheading, and restore riparian vegetation. ▪ Integrate public shoreline access and recreation. Could be a good site for a community or public dock. ▪ Current BI Nearshore Assessment rating: xx (xx); ranked xx out of 201 ▪ Estimated post-restoration rating: xx (xx); ranked xx out of 201 | | PW | | | | | | | | |
| # | # | <p>Eagle Harbor Drive</p> <ul style="list-style-type: none"> ▪ Current BI Nearshore Assessment rating: xx (xx); ranked xx out of 201 | | PW | | | | | | | | |

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|-----------|------------|---|----------------------|-------------------|--|-------------------|----------|---------------------------|--------------|--|-----------------|--|
| | | <ul style="list-style-type: none"> Estimated post-restoration rating: xx (xx); ranked xx out of 201 | | | | | | | | | | |
| # | # | Manitou Beach Rd <ul style="list-style-type: none"> Current BI Nearshore Assessment rating: xx (xx); ranked xx out of 201 Estimated post-restoration rating: xx (xx); ranked xx out of 201 | | PW | | | | | | | | |
| # | # | Crystal Springs Rd <ul style="list-style-type: none"> Realign road away from shoreline where possible, remove bulkheading and fill, nourish beach sediment, and restore riparian vegetation (while maintaining view corridors). Maintain view corridors of existing homes and improve non-motorized facilities along roadway to enhance recreational enjoyment and safety along this popular biking/walking shoreline roadway. Current BI Nearshore Assessment rating: xx (xx); ranked xx out of 201 Estimated post-restoration rating: xx (xx); ranked xx out of 201 | | PW | | | | | | | | |
| # | # | Pt. Monroe Drive - Fringe Marsh Restoration <ul style="list-style-type: none"> Fringe marsh in a lagoon like Pt Monroe, is a highly valuable habitat. Significant loss of fringe marsh has occurred in Pt Monroe due to residential and road development. Restore fringe marsh along the edge of Pt. Monroe Drive by removal of excessive road fill, sculpting to appropriate grade, and planting riparian vegetation in the remaining road shoulder. PW has agreed to do this project at the same time they are replacing the existing culvert and resurfacing the existing road surface. | 2005 | PW | | ? | | | | | | |
| # | # | Strawberry Plant <ul style="list-style-type: none"> Remove significant fill and armoring in stream mouth subestuary and intertidal Remove 100 piles, mostly creosote treated wood, and small float Remove significant portion of large concrete area within the riparian area Restore stream mouth, intertidal, fringe marsh, and riparian vegetation Current BI Nearshore Assessment rating : Mod/High Impact (-0.725) ; ranked 186 out of 201 Estimated post-restoration rating: Low Impact (-0.175); ranked 21 out of 201 reaches With a new dock, the estimated post-restoration rating would be: xx (xx); ranked xx out of 201 <p> The Strawberry Plant was acquired in 2004 for use as a park. Restoration is very compatible with likely park use. Restoration should be integrated into any park planning process.</p> | | SSP & BIPD | | | NEH | Weaver Creek | EH | 3140 | | |
| # | # | Waterfront Park Shoreline Restoration <ul style="list-style-type: none"> Remove bulkhead, & nourish beach sediment. Design may require drift sill, unless boat ramp provides similar function. Current BI Nearshore Assessment rating: xx (xx); ranked xx out of 201 Estimated post-restoration rating: xx (xx); ranked xx out of 201 | | | | | | | | | | |
| # | # | Blakely Harbor Park Shoreline Restoration <ul style="list-style-type: none"> Scenario 1: Remove low-tide fish passage barrier between jetties | | | | | | | | | | |

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| | | <ul style="list-style-type: none"> Current BI Nearshore Assessment rating: xx (xx); ranked xx out of 201 Estimated post-restoration rating: xx (xx); ranked xx out of 201 Scenario 2: Remove south jetty, remove rip-rap bulkheading near north jetty, remove metal and wood debris on beach and tidelands <ul style="list-style-type: none"> Estimated post-restoration rating: xx (xx); ranked xx out of 201 Scenario 3: Remove both jetties, remove rip-rap bulkheading near north jetty, remove metal and wood debris on beach and tidelands, restore and enhance marsh habitat <ul style="list-style-type: none"> Estimated post-restoration rating: xx (xx); ranked xx out of 201 Scenario 4: Remove both jetties, remove concrete powerhouse, remove rip-rap bulkheading near north jetty, remove metal and wood debris on beach and tidelands, restore and enhance marsh habitat <ul style="list-style-type: none"> Estimated post-restoration rating: xx (xx); ranked xx out of 201 | | | | | | | | | | |
| # | # | Schel-Chelb Estuary <ul style="list-style-type: none"> Restore cattail wetland to brackish marsh, create and enhance wetlands (fresh and brackish) that connect to the existing estuary. Current BI Nearshore Assessment rating: xx (xx); ranked xx out of 201 Estimated post-restoration rating: xx (xx); xx out of 201 | | Owner | | | | | | | | |
| # | # | Abandoned creosote treated piles and drift wood <ul style="list-style-type: none"> Remove unused creosote treated piles and drift wood from public lands and voluntary private lands. | | SSP | <.1 | Unknown: Contractor Disposal | | | | | | |
| # | # | Close Property Task: Acquisition & Public Access Task: Property Management <ul style="list-style-type: none"> Invasive plant control Monitor | In Progress, must complete by 12/2005 Ongoing | BILT BILT | .3 - .6 | \$2.5 Million | High | GL | - | PW-BP | 3528 | |
| | | Manitou Beach Marsh (Kane Open Space Property) | | SSP | .1-.2 | Unknown | Medium | | | | | |
| | | Agate Passage (SMA-1) | | | | | | | | | | |
| | | Port Madison Bay (SMA-2) | | | | | | | | | | |
| | | Rolling Bay – Point Monroe (SMA-3) | | | | | | | | | | |
| | | Murden Cove (SMA-4) | | | | | | | | | | |
| | | Eagle Harbor (SMA-5) | | | | | | | | | | |
| | | Blakely Harbor (SMA-6) | | | | | | | | | | |
| | | Rich Passage (SMA-7) | | | | | | | | | | |

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| | | Point White – Battle Point (SMA-8) | | | | | | | | | | |
| | | Manzanita Bay (SMA-9) | | | | | | | | | | |
| Watershed Habitat Actions | | | | | | | | | | | | |
| # | # | Road Maintenance Program <ul style="list-style-type: none"> Adopted a modified version of the Tri-County Road Maintenance Manual in 2003 Street sweeping/vacuuming is probably the most important action for reducing pollutant loads to salmon habitat Special procedures for working near sensitive habitats, like streams and wetlands  Should be evaluated for sensitivity along shorelines | ongoing | SSWM | | Unknown | High | All | All | All | All | Clean Water Act (NPDES Phase II); ESA; Comp Plan; SMMP |
| # | # | Street and Stormwater Waste Material (Decant) Facility <ul style="list-style-type: none"> Essential facility for treating contaminated road/ditch/catch basin spoils The City has been cleaning up the old decant facility, which did not meet current standards and is close to a salmon stream. | Clean up, design, build- 2004-2006 Operations-ongoing | SSWM | | Need CIP \$ | High | | | | | |
| | | Fish Passage Barriers <ul style="list-style-type: none"> [list NRT priorities] | | | | | | | | | | |
| | | Minimum In-Stream Flows <ul style="list-style-type: none"> | | | | | | | | | | |
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1 – Lead for implementing action:

- NRT – COBI Natural Resource Team (COBI’s interdepartmental natural resource program)
- SSP – COBI Shoreline Stewardship Program
- PW – COBI Public Works Department
- SSWM – COBI Surface and Stormwater Management Program
- PCD – COBI Planning & Community Development Department
- ENG – COBI Engineering Division
- EXEC – Executive Department
- LRP – COBI Long-Range Planning Division
- Tribe – Suquamish Tribe
- WDFW – WA Dept of Fish and Wildlife

2 – Subwatersheds (From Kato & Warren 2001)

- AP – Agate Passage

BH – Blakely Harbor
ED – Eagledale
FB – Fletcher Bay
GL – Gazzam Lake
MB – Manzanita Bay
NEH – North Eagle Harbor
PB – Pleasant Beach
PM – Port Madison
S - Sunrise
SB – South Beach

3 – Shoreline Management Areas (From Best 2003; Williams et al 2004)

AP – Agate Passage (SMA-1)
BH – Blakely Harbor (SMA-6)
EH – Eagle Harbor (SMA-5)
MB – Manzanita Bay (SMA-9)
MC – Murden Cove (SMA-4)
PM – Port Madison Bay (SMA-2)
PW-BP – Point White – Battle Point (SMA-8)
RB-PM – Rolling Bay – Point Monroe (SMA-3)
RP – Rich Passage (SMA-7)

Additional items to be integrated into Recommended Management Actions table above.

- Implementation & effectiveness monitoring
 - Habitat, education & outreach, etc
- Groundwater – stream flow impacts

Nearshore Restoration (incomplete)

- In addition to specific projects on public lands and willing private lands, summarize 10-yr restoration & enhancement targets (i.e. % increase, linear feet, square feet, etc) for each shoreline management area based on Nearshore Assessment that will require further effort to recruit willing property owners:
 - Water Quality
 - Septic system & marina surveys & correction assistance
 - Particular emphasis on Eagle Harbor, Fletcher Bay, Port Madison Bay, and lagoons
 - Riparian vegetation restoration & enhancement
 - Bulkhead & Groin removal
 - Prioritizing feeder bluffs and beaches with documented or likely forage fish spawning
 - Prioritize in marsh/lagoon areas where bulkheads are not necessary for erosion protection
 - Bulkhead and groin modification (i.e. pull back, convert to soft-shore, etc)
 - Prioritize where forage fish spawning is documented or likely and some form of stabilization is necessary to protect structures that cannot be moved back
 - Fill removal
 - Prioritize fill removal in marsh/lagoon geomorphic class

Education & Outreach (incomplete)

- Boats & marinas
- Nearshore property owners, particularly:
 - Riparian vegetation
 - Armoring
 - Overwater structures

- Stormwater management
- Fertilizers & pesticides
- Streamside property owners, particularly:
 - Riparian vegetation
 - Stormwater management
 - Fertilizers & pesticides
- Significantly improve printed and web-based educational and guidance materials

Fish Passage Barriers

- Inventory all fish passage barriers and prioritize corrections by 2007. Work with WDFW, the Suquamish Tribe, and the Mid-Sound Fisheries Enhancement Group. Use WDFW's Prioritization Index methodology. Fund in 2006.
- Continue with fish passage correction projects planned for 2005-2007:
 - Bergman Rd culvert (N. Fork Manzanita Ck),
 - Peterson Hill Rd culvert (Manzanita Ck), and
 - Fletcher Bay Rd/High School Rd culverts and channel (Springbrook Ck).
- By 2008, when a comprehensive inventory and prioritization of fish passage barriers is complete, refine long-term goals for correcting all fish passage barriers. Until that time, the following interim goals shall guide the City's level of effort:
 - Correct a minimum of two fish passage barriers per year, up to a local cost share of \$300,000 or another limit as set by the City Council.
 - Correct all barriers that completely block fish passage by 2011.
 - Correct all fish passage barriers by 2020.
- Fully integrate fish passage barrier corrections into planning and prioritization of capital projects (i.e. annual CIP process) by 2008. Begin process by mid-2007 for 2008 budget.
- Avoid creating new fish passage barriers and adversely impacting properly functioning conditions by avoiding construction across fish habitat. When necessary, conservatively design fish habitat crossings (e.g. oversized culverts and bridges or overhead and tunneled utilities).
- Time salmon habitat projects with associated and nearby fish passage barrier correction projects in order to efficiently utilize local funds and maximize the potential to win grants and other external funds.
- Give priority to correcting partial barriers and restoring salmon habitat on streams with salmon populations at risk of extirpation if they will reduce the risk of extirpation.
- Work with WSDOT to inventory, prioritize, and correct fish passage barriers along SR-305. Currently there are three culverts identified as partial barriers to fish passage. SR-305 should be thoroughly inventoried for other fish passage barriers. The City's responsibilities regarding these fish passage barriers should be determined before the City takes responsibility for SR-305, and if necessary, an agreement should be made between WSDOT and the City regarding the correction of fish passage barriers.

Habitat Conservation

- Coordinate the City's Open Space Commission with the City's Natural Resource Team to evaluate potential property acquisitions for benefits to salmon as well as watershed and nearshore ecosystems.
- Where possible, utilize open space funds and property acquisitions to leverage external grant funds to maximize the potential of local funds for habitat conservation and to
- Utilize the Bainbridge Island Nearshore Assessment to prioritize habitat conservation efforts in partnership with the COBI Open Space Commission & BI Land Trust.
 - Prioritize areas that have lower impact and support ecosystem processes (i.e. feeder bluff) or important habitat (i.e. pocket estuary)
 - Prioritize non-conforming lots that could result in unmitigated impacts (i.e. septic, bulkhead, stormwater, etc)
 - Prioritize areas with development pressure
 - Use a reserve fund for opportunistic acquisition in priority areas
 - Attempt to use less-than-fee-title conservation methods before fee-title acquisition