

Outline of Anticipated Strategies and Sub-strategies

rev 5 Oct 2011

line	Category	text	Strategy	subtask	Sub-Strategy text	Ongoing Programs	owner	Performance Measure	NTA #	NTA desc	char	owner	Performance Measure	owner	performance objectives
1	1	Smart	A	1	1	Focus land development away from ecologically important and sensitive areas									
2	1	Smart	A	1	1.1	Identify and prioritize areas that should be protected or restored and those that are best suited for development.			1	The Partnership will convene an interagency workgroup by 2012, that will by 2013, prepare regional ecosystem protection standards with a decision-making framework.	165		Status of standard development and status of decision making framework.		
3	1	Smart	A	1	1.1	Identify and prioritize areas that should be protected or restored and those that are best suited for development.			2	The Puget Sound Institute, in coordination with Ecology, Commerce, and WDFW, will develop a tool to improve and support spatial landscape data collection, sharing and analysis among local and tribal jurisdictions, state and federal agencies, NGOs and others by 2012, in order to better inform the identification of sensitive areas and areas suitable for development.	366		Status of data sharing tool development		
4	1	Smart	A	1	1.2	Local plans, regulations and policies are consistent with protection and recovery targets for Puget Sound.			1	Ecology and Commerce will provide easy web access to the Puget Sound Basin Characterization results and other landscape data, information and analysis by 2012.	159		By 2012 PSBC data is available to all local governments		
5	1	Smart	A	1	1.2	Local plans, regulations and policies are consistent with protection and recovery targets for Puget Sound.			2	Ecology and Commerce will create an interagency Watershed Technical Assistance Team to help local and regional entities access and use the results of the Puget Sound Ecosystem Characterization project by 2012.	209		By 2012 Watershed Technical Assistance Team established		
6	1	Smart	A	1	1.2	Local plans, regulations and policies are consistent with protection and recovery targets for Puget Sound.			3	By 2013, Ecology and Commerce will develop and distribute a set of local model planning land development and growth policies and goals that are consistent with protection and recovery targets and the Growth Management and Shoreline Management Acts, and DNR's Aquatic Lands Habitat Conservation Plan when approved by the National Marine Fisheries Service.	354		By 2013 Model growth policies are distributed to local governments		
7	1	Smart	A	1	1.2	Local plans, regulations and policies are consistent with protection and recovery targets for Puget Sound.			4	By 2013, Ecology and Commerce will conduct an analysis and assessment of GMA Comprehensive plans, Shoreline Master Programs and development regulations. The analysis and assessment will focus on analyzing how jurisdictions are incorporating ecosystem characterization information and methods, and related protection strategies, and encouraging compact growth patterns, increased density, redevelopment and rural lands protection.	429		Assessment Criteria developed by 2Q 2012 and Assessment complete by 2Q 2013.		
8	1	Smart	A	1	1.2	Local plans, regulations and policies are consistent with protection and recovery targets for Puget Sound.			5	By 2012, Ecology and Commerce will work with local governments to identify the 5 primary barriers to incorporating policies consistent with implementation of the Action Agenda and identify assistance needed to overcome these barriers.	234		By 2012, 5 barriers & assistance needed are identified for all jurisdictions		
9	1	Smart	A	1	1.2	Local plans, regulations and policies are consistent with protection and recovery targets for Puget Sound.			6	The Partnership, in collaboration with the Association of Washington Cities (AWC) and the Washington State Association of Counties (WSAC), will work with the legislature to redirect existing funding or increase funding to state agencies to increase technical assistance to local governments by 2013.	300		By 2013, funding for technical assistance has increased		
10	1	Smart	A	1	1.2	Local plans, regulations and policies are consistent with protection and recovery targets for Puget Sound.			7	State and Federal grant programs prioritize projects consistent with PS ecosystem recovery and those that encourage compact growth patterns, density and redevelopment and rural lands protection by 2013.	202				
11	1	Smart	A	1	1.3	Improve local governments ability and willingness to implement, monitor and enforce plans, regulations and policies.			1	By 2013, Commerce will coordinate broad stakeholder discussion of ways to promote state funding for GMA comprehensive plan implementation rather than only and required plan updates of plans and development regulations.	218		Priorities are identified for state funding of local planning and provided to the Legislature for consideration in the 2013 session.		
12	1	Smart	A	1	1.3	Improve local governments ability and willingness to implement, monitor and enforce plans, regulations and policies.			2	State agencies will work with stakeholders to request the Legislature increase state financial support to local governments for plan and regulatory implementation, enforcement, management, training, and education by 2013.	221		State financial support to local governments for plan and regulatory implementation, enforcement, management, training, and education will have increased by 2013.		
13	1	Smart	A	1	1.3	Improve local governments ability and willingness to implement, monitor and enforce plans, regulations and policies.			3	[Who? Possibly the Association of WA Cities?] will provide bi-annual BMP workshops and compliance training for local government code enforcement staff by 2013.	161		4 workshops by 2013		

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14	1	Smart	A	1	1.4	Strengthen and streamline existing local, state, federal permitting programs.			1	[Who] will convene a workgroup, by 2012, that will, by 2013, conduct a cumulative effects assessment of the 'no net loss policy' in producing net gain toward the recovery targets and articulate how cumulative effects assessment could be integrated into existing programs.	274		Workgroup convened by 2012, assessment complete by 2013		
15	1	Smart	A	2	2.1	Permanently Protect the Intact Areas of the Puget Sound Ecosystem that still function well					0				
16	1	Smart	A	2	2.1	Obtain Full or Partial Property Interests for Lands at Risk of Conversion or Impacts From Hurr			1	To protect areas of ecological importance to Puget Sound Recovery, by 2014, the RCO and the PSP will revise as necessary the Recreation and Conservation Funding Board and Salmon Recovery Funding Board policies so that, for acquisitions within the Puget Sound Basin, the Aquatic Lands Enhancement Account, Washington Wildlife and Recreation Program Habitat Conservation Account, and Salmon Recovery Funding Board grant programs include 1) a clear method for identifying whether a project is in conflict with the Action Agenda and 2) a clear method, within selection criteria, for identifying whether a project is referenced in the Action Agenda.	644		PSP and the Recreation and Conservation Office will revise the Conservation Funding Board and Salmon Recovery Funding Board policies to ensure they are not in conflict with the Action Agenda.		
17	1	Smart	A	2	2.1	Obtain Full or Partial Property Interests for Lands at Risk of Conversion or Impacts From Hurr			2	PSP will convene a task force to develop a funding mechanism to rapidly acquire properties with high ecological value and imminent risk of conversion by 2012.	159		PSP convenes a task force by 2012		
18	1	Smart	A	2	2.1	Obtain Full or Partial Property Interests for Lands at Risk of Conversion or Impacts From Hurr			3	DNR will work with Congress to encourage passage of the Community Forestry Conservation Act (HR 1982), which would enable non-profit conservation organizations to use bonds to purchase private working forests for long-term environmental and economic sustainable management by 2013.	281		The Community Forestry Conservation Act (HR 1982) is passed by 2013		
19	1	Smart	A	2	2.1	Obtain Full or Partial Property Interests for Lands at Risk of Conversion or Impacts From Hurr			4	American Farmland Trust will identify farmlands with high ecological value and at imminent risk of conversion by 2013.	118		Farmlands with high ecological value and at imminent risk of conversion are identified by 2013.		
20			A	2	2.2	Use Special designations to protect intact areas			1	No near term actions identified	31				
21	1	Smart	A	3	3.1	Protect and Steward Ecologically Sensitive Rural and Resource Lands					0				
22	1	Smart	A	3	3.1	Create and offer an expanded, integrated suite of incentives and market-based programs that			1	By 4Q 2012, DNR and the Conservation Commission will develop criteria and direct stewardship funding, consistent with current statutory and regulatory requirements, to ecologically important areas as defined by the Puget Sound Basin Ecosystem Characterization and other assessment and characterization information.	316		By 4Q 2012 the criteria to direct stewardship funding to ecologically important areas are created		
23	1	Smart	A	3	3.1	Create and offer an expanded, integrated suite of incentives and market-based programs that			2	By 2012, the Conservation Commission will assess existing stewardship incentive programs to identify changes to better include underserved landowners, including small farmers and owners of non-working rural lands.	215		By 2012, assessment of existing stewardship incentive programs and identification of changes are complete		
24	1	Smart	A	3	3.1	Create and offer an expanded, integrated suite of incentives and market-based programs that			3	By 2012, the Conservation Commission will work to enhance use of all USDA conservation and habitat restoration program funding, i.e., CREP and EQUIP, which are currently underused by and not tailored for western Washington growers.	231				
25	1	Smart	A	3	3.1	Create and offer an expanded, integrated suite of incentives and market-based programs that			4	By 2012, the Conservation Commission will work with other entities including WSU Extension, Conservation Districts, UW Sea Grant and counties, to improve and expand public recognition for voluntary private sector stewardship of lands.	234				
26	1	Smart	A	3	3.2	Create a Comprehensive Conservation and Ecosystem Services Market focused on resource lands			1	[Who] will establish a center for state efforts to organize and stimulate conservation markets for resource lands by 2013	121		By 2013, a center is established.		
27	1	Smart	A	3	3.2	Create a Comprehensive Conservation and Ecosystem Services Market focused on resource lands			2	DNR will support pilot market transactions for delivery of watershed services from private forest landowners to downstream water beneficiaries in at least the Snohomish and Nisqually watersheds.	194		A pilot market for delivery of watershed services from private forest landowners will exist in Snohomish and Nisqually watersheds.		
28	1	Smart	A	3	3.3	Develop a comprehensive strategy for retaining economically viable and long-term successful			1	By 3Q 2013, DNR will identify and lead a collaborative process to develop a comprehensive strategy for retaining economically viable and long-term successful working forestlands.	180		In 3Q 2013 DNR will have initiated a collaborative process		
29	1	Smart	A	3	3.3	Develop a comprehensive strategy for retaining economically viable and long-term successful			2	DNR will incorporate analysis of third party certification standards when DNR recalculates the sustainable harvest on state trust lands in 2014.	144		The analysis of third party certification standards will be incorporated into sustainable harvest on state trust lands in 2014.		

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30	1	Smart	A	3	3.3	Develop a comprehensive strategy for retaining economically viable and long-term successful				3	[Who] will work to amend the Open Space Tax Program to improve incentives for small landowners and to reduce tax and administrative burden on working farm and forest landowners.	177				
31	1	Smart	A	4	4	Encourage compact regional growth patterns and create dense, attractive and mixed-use and transit-oriented communities						0				
32	1	Smart	A	4	4.1	Provide the necessary infrastructure and incentives within urban growth areas to accomoda				1	Commerce will launch a regional program similar to the federal sustainable communities program by 2013.	103				
33	1	Smart	A	4	4.2	Enhance and expand the benefits of living in compact communities to increase consumer dem				2	The Partnership, in collaboration with Commerce, will secure legislative authority for tax increment financing for local governments to finance infrastructure improvements within designated areas by 2013.	204		By 2013, tax increment financing for local governments to finance infrastructure improvements within designated areas will be secured by legislative authority.		
34	1	Smart	A	4	4.3	Enhance and expand the benefits of living in compact communities to increase consumer dem				1	No near-term action identified yet	0				
35	1	Smart	A	5	5	Protect and Restore Floodplain Function						0				
36	1	Smart	A	5	5.1	Protect and maintain intact and functional floodplain functions (i.e., flood storage, channel migration, and habitat forming processes) by focusing growth away fr						0				
37	1	Smart	A	5	5.1	5.1.1 Identify, assess and revise regulatory policies (e.g., exemptions and variances) allowin				1	By the fourth quarter of 2012, synthesizing the results in the July 2010 "Floodplain Management: A Synthesis of Issues Affecting Recovery of Puget Sound" report and other relevant and timely information, the PSP will identify and draft an action plan to address, the programs and target programmatic recommendations for legislative change, rule amendments, and administrative changes, needed to achieve the floodplains pressure reduction target.	446		(status of action plan development) By 4Q 2012, an action plan addressing programmatic, legislative, administrative, and regulatory changes needed to achieve the floodplain recovery target is drafted.		
38	1	Smart	A	5	5.1	5.1.2 Use floodplain characterizations and prioritizations, watershed assessments and plans, i				2	The PSP will convene a group to identify floodplain areas and then prioritize most important for protection, restoration, farmland preservation or other compatible and non-compatible uses by 2013. The outputs from this effort will include the identification of currently functioning floodplain areas that must be protected to meet the 2020 floodplain recovery target.	368		(status of floodplain mapping) By 2013, functioning and non-functioning floodplain areas have been mapped, identified and prioritized as appropriate for protection, restoration, compatible and non-compatible uses.		
39	1	Smart	A	5	5.1	5.1.3 Align agency plans, programs, regulations and policies to better protect and restore flo				3	The PSP will convene a multi-agency group to bring the results of the prioritization work to identify the implementation steps needed to protect functioning floodplain areas by 2013.	182		(status of list of implementation steps) By 2013, implementation steps needed to protect functioning floodplain areas have been identified.		
40	1	Smart	A	5	5.1	5.1.4 Provide assistance to local jurisdictions with implementation and enforcement of floodpl				4	By 2012, FEMA completes augmented annual reporting requirements relative to the obligations of the 122 communities in Puget Sound to abide by the NMFS NFIP BIOP.	161		(status of FEMA reporting requirements) By 2012, FEMA reporting requirements are complete.		
41	1	Smart	A	5	5.1	5.1.5 Ensure that a modern scientific understanding is applied to local floodplain managem				5	Ecology leads State engagement with local government representatives about how they manage Frequently Flooded Areas (CAO update), including advocating for the use of Frequently Flooded Areas and providing technical support and oversight of local government use of updated flood information by 2013.	300		(status of FFA information in CAO updates?) By 2013, Ecology and other State agencies oversee incorporation of FFA information in CAO updates in all local jurisdictions.		
42	1	Smart	A	5	5.1	5.1.6 Improve and increase outreach and education regarding the values healthy floodplains				6	The PSP will include the risks and costs of developing in floodplains and the economic and social benefits/services of preserving and restoring floodplain functions as a top messaging priority in its outreach efforts by 2012.	225		(status of inclusion of floodplain risks, services and benefits in SP outreach materials) By 2012, all PSP outreach materials related to development includes messaging about floodplain risks and benefits and services of intact, functional floodplains.		
43	1	Smart	A	5	5.2	Support long-term protection and stewardship of agricultural lands, working farms, and forests to help maintain existing ecosystem function, sustain quality of li						0				
44	1	Smart	A	5	5.2	5.2.1 Use, coordinate, expand and promote financial incentives, including flood/riparian easer				1	DNR, WDFW and other state agencies, tribes, local governments, and non-governmental entities will use applicable federal and state grants, local government funds, and private funds to purchase development rights from working forest and farm landowners for lands at risk of conversion in Key Puget Sound watersheds.	314				
45	1	Smart	A	5	5.2	5.2.1 Use, coordinate, expand and promote financial incentives, including flood/riparian easer				2	Secure increased WWRP funding for purchasing development rights, ensuring easement language doesn't preclude future restoration and prioritizing those places without levees or hardened banks.	191		(amount and focus of WWRP funding) By 2013, WWRP funding is increased and directed toward protecting and restoring floodplains.		

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46	1	Smart	A	5	5.2	5.2.1 Use, coordinate, expand and promote financial incentives, including flood/riparian easer				3	The Ruckelshaus Center, NRCS, and PSP will work to secure NRCS funding for Puget Sound flood easements in the next farm bill and identify/design a pilot by 2013. Compensation rates should be based on the level of floodplain function that is protected (i.e. different rates for those behind levees (no flooding), those behind riprap (no channel migration), and those that are fully connected).	393		(NRCS funding in farm bill and status of pilot project) By 2013, the farm bill includes NCS funding for flood easements and a project piloting variable compensation rates for easements is in place.		
47	1	Smart	A	5	5.2	5.2.1 Use, coordinate, expand and promote financial incentives, including flood/riparian easer				4	By 2013, Conservation Districts and Watershed Groups implement 3 pilot projects that demonstrate ecosystem services markets associated with flood hazard prevention and agricultural lands in floodplains.	202		(status of 3 pilot projects) By 2013, 3 pilot projects demonstrating ecosystem service markets for floodplains are in place.		
48	1	Smart	A	5	5.2	5.2.1 Use, coordinate, expand and promote financial incentives, including flood/riparian easer				5	By 2012, the Local Integrating Organizations will convene a multi-disciplinary team including conservation districts, NRCS, NOAA, lead entities for the WRIAs, and use the definition of floodplain function to identify priority opportunities for floodplain compatible agricultural practices. The Ruckelshaus process will be used to create incentive programs in incentivize these practices.	388		(status of list of priority areas and status of incentive programs) By 2012, priority opportunities for floodplain compatible agriculture have been identified and programs supporting these activities have been incentivized.		
49	1	Smart	A	5	5.2	5.2.2 Develop and promote (CREP and EQUIP) economic and regulatory incentives to promot				1	[Who] will assess the disincentives for reestablishing habitat land on agricultural lands by 2013.	98		(status of understanding/ documenting disincentives) By 2013, disincentives for reestablishing habitat on agricultural lands have been documented.		
50	1	Smart	A	5	5.3	Implement and maintain priority ecosystem restoration projects for floodplains, tidal and non-tidal.						0				
51	1	Smart	A	5	5.3	5.3.1 Use floodplain characterizations and prioritizations, watershed assessments and plans, and other information to identify areas that should be restored.						0				
52	1	Smart	A	5	5.3	5.3.2 Restore and increase floodplain function on agricultural lands through collaborative app				1	The conservation districts, agricultural community, watershed planning groups, and local jurisdictions will use the outputs from the characterization work to identify potential land swaps (i.e., county land use and conservation districts) and identify candidate areas available to expand for agriculture outside of priority floodplain areas by 2012.	350		(Status of list) By 2012, potential land swaps and candidate areas available to expand for agriculture are identified.		
53	1	Smart	A	5	5.3	5.3.2 Restore and increase floodplain function on agricultural lands through collaborative app				2	PSP, DFW, NOAA, NRCS and others will work with farming communities to implement the Skagit Tiedgate Fish Initiative, the Snohomish Sustainable Lands Strategy and other win-win approaches that enable agricultural infrastructure improvements and/or provide regulatory certainty in exchange for restoration actions.	312		Acres of restoration projects for which there is farm community support.		
54	1	Smart	A	5	5.3	5.3.3 Develop and implement a multiple benefit floodplain restoration pilot project program t				1	PSP will work with commerce, the agricultural community, local jurisdictions, federal agencies (FEMA, NOAA, NMFS, USGS), and the Nature Conservancy to develop three case studies, as part of a broader pilot program, that are illustrative of the benefits of a multi-objective approach to floodplain restoration and use them as tools to promote and educate by 2013.	361		(status of case study development) By 2013, 5 case studies illustrating benefits of multi-objective approach to floodplain restoration are in place and included in outreach and education efforts (latter is really a second objective or measure)		
55	1	Smart	A	5	5.3	5.3.3 Develop and implement a multiple benefit floodplain restoration pilot project program t				2	[Who leads? Participants should include PSP, the Federal Caucus, State Agencies and others], will identify Federal, State, Local, and private funding to develop a pilot program to build local capacity and fund projects that leverage the work and lessons learned from the case studies and the NTA 1.2 prioritization work by the fourth quarter of 2013.	352		(status of availability of pilot program) By 2013, pilot program focused on multi-objective floodplain restoration is in place and funding projects.		
56	1	Smart	A	5	5.3	5.3.4 Identify programmatic changes to facilitate sustainable, multi-objective floodplain man				1	PSP, FEMA, USACE, EPA, NOAA, NRCS and Ecology will collaborate to develop and implement a coordinated funding approach, including cost-share mechanisms, for floodplain-friendly modifications to flood protection infrastructure by 2012.	234		(Status of coordinated funding approach) By 2012, a coordinated funding approach is delineated.		
57	1	Smart	A	5	5.3	5.3.4 Identify programmatic changes to facilitate sustainable, multi-objective floodplain man				2	PSP and Ecology will convene FEMA, NOAA, EPA, USACE, and Local Governments to identify the policy and program changes of federal, state and local I flood risk reduction, flood mitigation and ecosystem protection and restoration programs to foster multi-objective floodplain management and implement non-structural, ecosystem based approaches to protecting local communities through coordinated project identification and investment by 2012.	440				

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58	1	Smart	A	5	5.3	5.3.4	Identify programmatic changes to facilitate sustainable, multi-objective floodplain man		3	PSP will identify an indicator champion to measure recovery progress relative to the 2011 baseline and share data regarding floodplain functions and services.	158		Identification of an indicator champion		
59	1	Smart	A	5	5.3	5.3.4	Identify programmatic changes to facilitate sustainable, multi-objective floodplain man		4	In 2012, PSP will convene the USACE, Ecology, DFW, and flood districts/watershed groups, as appropriate, to identify incentive mechanisms to participate and implement non-structural alternatives to flood hazard reduction.	221				
60	1	Smart	A	5	5.3	5.3.5	Revise federal policies (USACE and FEMA) to develop regionally-specific Puget Sound pc		1	[Who] will convene the USACE, FEMA, NOAA, Ecology, DFW, local government and local levee owners to identify the barriers to implementing levee setbacks and habitat friendly levee management practices and work with key parties to address barriers by the fourth quarter of 2012.	276		By 4Q 2012, complete identification of barriers and strategies to eliminate barriers.		
61	1	Smart	A	5	5.3	5.3.5	Revise federal policies (USACE and FEMA) to develop regionally-specific Puget Sound pc		2	PSP will lead and participate in the development of new regional-based levee based vegetation standards by 2012.	112		(Status of the standard development) Completion of standards by 2012		
62	1	Smart	A	5	5.3	5.3.6	Develop new approach to cost-benefit analysis that includes ecosystem services and lor		1	[Who] will work with PSP, TNC, NOAA, FEMA, USGS, EPA, USACE and Ecology to develop a decision making framework that enables agencies to identify cross-agency floodplain project priorities based on their ability to meet multiple goals in a cost-effective manner.	261		(Status of decision-making framework) Completion of decision-making framework		
63	1	Smart	A	5	5.3	5.3.7	Locate new and replacement public infrastructure (e.g., bridges, roads, rails, treatment		1	By 2013, PSP will work with WSDOT to identify the top road and bridge retrofit projects by identifying those that both have the biggest impacts and floodplain connectivity and those in most need of repair or replacement in the next 10-20 years.	244		(Status of project list) Completion identification of priority projects.		
64	1	Smart	A	5	5.4		Incorporate climate change forecasts into floodplain protection and restoration strategies.				0				
65	1	Smart	A	5	5.4	5.4.1	Work with Federal, State, and Local governments to integrate climate change risk facto		1	By 2012, a representative from Climate Impacts Group will be a member of the Puget Sound Partnership Science Panel.	115		(Status of appointment of representative) By 2012, a member of the Climate Impacts Group serves on the science panel		
66	1	Smart	A	5	5.4	5.4.2	Use findings from research studies on climate change impacts on floodplains in the Pug		1	EPA with collaboration from the PSP will work with research study authors, floodplain managers, and other affected parties to distill the current state of knowledge of climate change impacts pertinent to floodplains; identify, assess and prioritize risk factors, and develop adaptations strategies by 2013. Findings will be documented in a published report.	358		(Status of published report) By 2013, findings are documented in published report.		
67	1	Smart	A	5	5.4	5.4.3	Incorporate climate change forecasts into cost benefit analysis for structural versus nor		1	PSP and Ecology will work with EMD to change State comprehensive flood management planning and project funding policies to ensure that plans and projects supported with state funding fully incorporate projected changes to sea level rise, flood frequency and volumes, sediment regimes and other issues that could be a major threat to human safety and floodplain ecosystem health.	378				
68	2	Restor	A	6	6		Adapt, where necessary, and implement and maintain freshwater and upland restoration proj		0		0				
69	2	Restor	A	6	6.1		Adapt, where necessary, and implement and maintain stream (river and creek) restoration pr		1	The 14 Lead Entities for Salmon Recovery implement the highest priority restoration projects identified within the salmon recovery Three-year Work Plans from the 14 watershed groups that are based on salmon recovery plans. Potential funding sources include SRFB; PSAR; and EPA funded Puget Sound Lead Organizations.	315		Successfully obtain funding for the highest priority projects and complete or begin implementation of those projects within the 2011-13 biennium.		
70	2	Restor	A	6	6.1		Adapt, where necessary, and implement and maintain stream (river and creek) restoration pr		2	Local jurisdictions, in consultation with Lead Entities for Salmon Recovery implement the highest priority restoration projects identified by local jurisdictions within the Shoreline Master Programs; coordinate with the implementation of projects on the salmon recovery Three-year Work Plans (see NTA #1). Potential funding sources include SRFB; PSAR; and EPA funded Puget Sound Lead Organizations.	398		Coordinate with the salmon recovery watersheds to successfully obtain funding for the highest priority projects and complete or begin implementation of those projects within the 2011-13 biennium.		
71	2	Restor	A	6	6.2		Adapt, where necessary, and implement and maintain wetland restoration and creation projec		1	None. Near-term work in this area is addressed in A6.1.	56				
72	2	Restor	A	6	6.3		Adapt, where necessary, and implement and maintain lake restoration projects.		1	None. Near-term work in this area is addressed in A6.1.	56				
73	2	Restor	A	6	6.4		Establish a stable funding source and local capacity to implement large-scale and complex fre		1	The RCO and Puget Sound Partnership (as the salmon recovery Region for Puget Sound) on behalf of the Puget Sound Salmon Recovery Council, establish a stable funding source for Projects of Regional Significance identified by the Puget Sound Salmon Recovery Council.	264		Establish a stable funding source within the 2011-13 biennium.		

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74	2	Restor	A	7	7	Mitigation that Works						0				
75	2	Restor	A	7	7.1	Increase the success rate of mitigation projects to achieve at a minimum no net loss of ecosy				1						
76	3	Sustain	A	8	8	Protect and conserve freshwater resources to increase and sustain water availability for instream flows						0				
77	3	Sustain	A	8	8.1	Regulation, Monitoring, and Enforcement: Reform state water laws to be more protective of it				1	Ecology, with support from WDFW, will set flow rules in three remaining Puget Sound watersheds (WRIA's 16, 18, and 19) that currently do not have instream flow rules within 6 years. Two additional watersheds – San Juan (WRIA 2) and Island (WRIA 6) are not near-term candidates for instream flow rules due to naturally limited freshwater habitat. Priority will be given to critical basins or those with known significant problems meeting instream or out-of-stream demands. By 2013 Ecology will have adopted an instream flow rule for the Dungeness River portion of WRIA 18.	577				
78	3	Sustain	A	8	8.1	Regulation, Monitoring, and Enforcement: Reform state water laws to be more protective of it				2	A7.1 NTA 2 Ecology will develop and implement the comprehensive basin flow protection and enhancement programs called for in the recovery plans for Puget Sound Chinook and Hood Canal/Strait of Juan de Fuca summer Chum by [date]. By 2013 Ecology will [increment of anticipated progress.]	287				
79	3	Sustain	A	8	8.1	Regulation, Monitoring, and Enforcement: Reform state water laws to be more protective of it				3	Implement the recommendations from approved watershed plans prepared under the Watershed Planning Act (RCW 90.82) consistent with the Action Agenda and coordinated with other local restoration and protection efforts.	216				
80	3	Sustain	A	8	8.1	Regulation, Monitoring, and Enforcement: Reform state water laws to be more protective of it				4	Ecology will establish local water masters in each Puget Sound watershed to increase water code compliance and enforcement by [date]. By 2013, Ecology will establish at least one water master in a selected high priority watershed to increase water code compliance and enforcement, this will include providing funding for the water master to be a local contact to water users, provide a local compliance presence, protect the resource, reduce water use, and protect senior water rights, including instream flows.	512				
81	3	Sustain	A	8	8.2	Water Demand and Water User Conservation: Decrease the amount of water withdrawn or di				1	Who will support municipal water systems' implementation of Washington Department of Health's Water Use Efficiency Rule, including establishing water conservation goals, metering, and reporting from all municipal suppliers by [when? If not 2013 need to specify an increment of progress by 2013]	294				
82	3	Sustain	A	8	8.2	Water Demand and Water User Conservation: Decrease the amount of water withdrawn or di				2	[Who] will support an increase in periodic audits of industrial water users of [how much] by 2013.	98				
83	3	Sustain	A	8	8.2	Water Demand and Water User Conservation: Decrease the amount of water withdrawn or di				3	Building on existing public-private models, public utilities will adopt demand management strategies (such as tiered pricing structures) to discourage inefficient and unnecessary use of municipal water, particularly in flow-limited areas or low flow periods. By 2013, [x] number of utilities will have adopted demand management strategies.	340				
84	3	Sustain	A	8	8.3	Implement effective management programs for groundwater.				1	[who] will convene a stakeholder group to identify management options for exempt wells and make a recommendation to the Partnership and Ecology by [date].	154				
85	4	Protec	A	9	9	Protect and recover salmon						0				
86	4	Protec	A	9	9.1	Implement regional salmon recovery plan.						0				
87	4	Protec	A	9	9.2	Implement the Hood Canal Summer Chum plan.						0				
88	4	Protec	A	9	9.3	Strategies around other salmonid species.						0				
89	5	Protec	A	10	10	Implementation of other plans in a coordinated way and maintenance and enhancement of biodiversity						0				
90	5	Protec	A	10	10.1	Biodiversity Strategy: Implement existing biodiversity plans in a coordinated way while a mor				1	Identify a single state agency or commission to serve as coordinating entity for biodiversity programs (the Washington Biodiversity Council developed recommendations for a sustainable leadership strategy, available here). This entity will be tasked with compiling biodiversity strategies and/or policies affecting biodiversity from across state and federal agencies, local governments, tribes, non-profits and others, and mapping these strategies to ensure they are complimentary and beneficial to terrestrial and freshwater species recovery.	546		Formation of single entity to coordinate biodiversity activities in Washington State		

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91	5	Protec	A	10	10.1	Biodiversity Strategy: Implement existing biodiversity plans in a coordinated way while a mor				2	DNR will increase resources for incentive-based landowner conservation programs to make them more accessible and easier to use. DNR will target resources toward high-priority terrestrial and freshwater biodiversity conservation areas and aim to [placeholder to define increment of activity, e.g. number of landowners participating in incentive-based conservation programs and/or acres of land conserved through such programs] by 2013.	435				
92	5	Protec	A	10	10.1	Biodiversity Strategy: Implement existing biodiversity plans in a coordinated way while a mor				3	Department of Commerce will accelerate the development of biodiversity markets with the goal of [placeholder to define increment of activity, e.g. number of transactions or number of acres conserved through biodiversity market activity] by 2013.	245				
93	5	Protec	A	10	10.1	Biodiversity Strategy: Implement existing biodiversity plans in a coordinated way while a mor				4	WDFW will expand technical assistance to support the efforts of local governments to plan and manage for biodiversity conservation with the goal of [placeholder to define increment of activity, e.g. number of local governments incorporating biodiversity as a planning/land use consideration] by 2013.	300				
94	5	Protec	A	10	10.2	Terrestrial and Freshwater Species Recovery: Implement existing species recovery plans in a				1	Appropriate state agencies will prioritize the implementation of restoration projects identified within existing terrestrial and freshwater species recovery plans.	163				
95	5	Protec	A	10	10.2	Terrestrial and Freshwater Species Recovery: Implement existing species recovery plans in a				2	WDFW will use and augment existing species plans to create actionable work plans for imperiled terrestrial and freshwater species without existing or specified plans.	167		Number of actionable work plans for imperiled species currently lacking such plans		
96	5	Protec	A	11	11	Prevent and respond to the introduction of freshwater and terrestrial invasive species				1		0				
97	5	Protec	A	11	11.1	Prevent and rapidly respond to the introduction and spread of invasive species.				1	The Invasive Species Council will expand its baseline assessment to include an additional 15 of the Council's priority invasive species.	136		Complete assessment by June 30, 2015.		
98	5	Protec	A	11	11.1	Prevent and rapidly respond to the introduction and spread of invasive species.				2	The Invasive Species Council, in collaboration with Puget Sound Partnership, will begin developing an early detection and monitoring program plan for priority invasive species in Puget Sound. The Council and Puget Sound Partnership will coordinate the plan and implementation efforts with the Puget Sound Coordinated Ecosystem Monitoring and Assessment Program.	362		Develop work plan and cost estimates by June 30, 2015.		
99	5	Protec	A	11	11.1	Prevent and rapidly respond to the introduction and spread of invasive species.				3	Washington Department of Fish and Wildlife will prepare to respond to a potential zebra/quagga mussel invasion in the Puget Sound Basin.	136		Complete a management plan by June 30, 2015.		
100	5	Protec	A	11	11.1	Prevent and rapidly respond to the introduction and spread of invasive species.				4	Washington Department of Fish and Wildlife will limit the spread of New Zealand mud snails in the Puget Sound basin.	116		Change in the number of areas or acreage infested with New Zealand or change in the number of locations containing mudsnails.		
101	5	Protec	A	11	11.2	Answer key invasive species research questions and fill information gaps.				1	The Washington Invasive Species Council and Puget Sound Partnership will initiate a risk assessment to evaluate the environmental and economic impacts of invasive species in the Puget Sound Basin and incorporate short-term climate change considerations.	253		Complete risk assessment by June 2015.		
102	6	Fill Key	A	12	12	Strategies and actions to flow from the Biennial Science Work Plan effort				1		0				
103	7	Nearsh	B	1	1	Use anticipated population and economic growth as a catalyst for recovery by building on exist				1		0				
104	7	Nearsh	B	1	1.1	Ensure complete, accurate and recent information directly assists shoreline planning and deci				1	Document science-based priorities for protection, restoration, enhancement and managed growth that reconcile sediment supply priorities with high-value areas for salmon, shellfish, and other natural resources. The outcome of this effort will be agreed upon maps or other documents showing the science-based priorities for protection, restoration, enhancement, and managed growth are at a drift cell (or below) scale.	417		Puget Sound Partnership convenes task force to unite priorities. Is the map done or not: is the map agreed to or not by December 2013.		
105	7	Nearsh	B	1	1.1	Ensure complete, accurate and recent information directly assists shoreline planning and deci				2	Convene an advisory team to develop workplan for implementing a network of marine reserves in Puget Sound.	108		Puget Sound Partnership's Hershman Fellow creates detailed workplan by September 30, 2012.		
106	7	Nearsh	B	1	1.2	Monitor projects to effectively evaluate results and implement adaptive management.				1	[PSP and WDFW] will institute a tracking system for nearshore projects by the end of 2012 to enable future evaluation of the effectiveness of actions taken.	157				
107	7	Nearsh	B	1	1.3	Use outreach and education to encourage actions to protect and restore nearshore and marin				1	[PSP, WHO and local governments] Establish pilot shoreline stewardship program to increase the frequency at which residential shoreline owners remove rather than replace aging armoring.	186		Conduct formative research, determine diffusion strategy, launch program.		

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108	7	Nearsh	B	1	1.3	Use outreach and education to encourage actions to protect and restore nearshore and marin				2	[PSP, WHO and local governments] Implement public involvement and stewardship actions to increase recognition of and compliance with marine reserves while improving rockfish protection.	185		WDFW Rockfish Conservation Plan includes actions to "clearly mark Marine Reserves and RCAs" and "Develop a webpage and utilize other media to feature the Puget Sound Rockfish Conservation Plan and the Department's effort to protect and restore rockfish in Puget Sound"; LO and PSP support as module for "Puget Sound Starts Here" appear in alignment with such an effort.		
109	7	Nearsh	B	2	2	Protect and conserve relatively intact and relatively intact ecosystems to maintain the health				1		0				
110	7	Nearsh	B	2	2.1	Take actions that protect priority nearshore physical and ecological processes consistent with				1	Ensure all Partners have access to and are using the science-based priority maps identified in B1 to inform the locations of specific nearshore protection actions and projects.	178		Percent of projects consistent with maps; goal is 100% consistent for state and federal funded projects; 80% (or 90?) consistency overall.		
111	7	Nearsh	B	2	2.1	Take actions that protect priority nearshore physical and ecological processes consistent with				2	Use acquisition and regulatory protections to permanently protect at least 10% of bluff-backed beaches with high sediment supply potential facing shoreline development pressure.	177		PSNERP Strategies document (and targeted analysis by Cereghino) points to added protection of 2 of 18 such beaches to satisfy benchmark; consistency with B1 maps (see NTA 1 above).		
112	7	Nearsh	B	2	2.1	Take actions that protect priority nearshore physical and ecological processes consistent with				3	Conserve [number of or acres of] relatively intact large river deltas and coastal embayments.	93		Number of deltas/embayments and/or acres conserved; consistency with B1 maps (see NTA 1 above).		
113	7	Nearsh	B	2	2.2	Prevent new shoreline armoring except where it is required to protect existing infrastructure l				1	Use best available science to revise Hydraulic Code Rules (chapter 220-110 WAC) and clarify conditions under which hydraulic projects may be conducted to prevent or mitigate the impacts to fish life and habitat.	212				
114	7	Nearsh	B	2	2.3	Where armoring is aging or non-protective, seek opportunities for permanent removal or the				1	[Which state agency], in consultation with local permitting agencies, will identify potential permit and economic incentives for soft armoring and pilot incentives in at least [number] jurisdictions by 2013. The goal is to encourage alternative shoreline erosion control and other innovative options to become operational in state and local permitting programs, including but not limited to incentives for armoring removals, nearshore restoration and other techniques (disincentives); incentives should apply to new armoring projects (where armoring is required) and to armoring repair and replacement efforts.	611		Done or not; number of jurisdictions that have piloted incentives; whether permits for soft armoring are easier to get than those for hard armoring.		
115	7	Nearsh	B	2	2.3	Where armoring is aging or non-protective, seek opportunities for permanent removal or the				2	WDFW, in consultation with other Agencies and experts, will publish design guidance on alternatives to hard armoring and the benefits and cost-effectiveness of soft armoring techniques by 2012.	193		Done or not.		
116	7	Nearsh	B	2	2.3	Where armoring is aging or non-protective, seek opportunities for permanent removal or the				3	[Who] will provide training about application of soft armoring techniques for bulkhead contractors and local planners/permit writers for at least [number] people by 2013. The training will focus on advantages and proper application of soft armoring to both new armoring projects and to repair and replacement projects and will use the new design guidance identified in NTA 2.	376		Number of individuals who have been through the training.		
117	7	Nearsh	B	2	2.4	Take actions to protect migratory corridors and vegetation particularly in sensitive areas such				1	Through the habitat stewardship measures of the Aquatic Lands Habitat Conservation Plan, DNR will condition aquatic use authorizations to ensure new or retrofitted over-water structures do not impact eelgrass beds. Through revision of WAC 220-110, limit construction of new overwater structures in ecologically sensitive areas and improve the design of new structures (for example, dock grating to allow light penetration).	423				
118	7	Nearsh	B	2	2.4	Take actions to protect migratory corridors and vegetation particularly in sensitive areas such				2	For state-owned aquatic lands, DNR, in consultation with [who else], will identify potential permit, economic, and social incentives for community use docks. The goal of this effort is to significantly increase community use docks as a viable alternative to individual docks and to thereby reduce the total number of overwater structures in Puget Sound.	356		Performance metric: Done or not; number of community use docks (increase); number of private individual docks (decrease).		

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119	7	Nearst	B	2	2.4	Take actions to protect migratory corridors and vegetation particularly in sensitive areas such			3	DNR, in consultation with [who else], will publish design guidance on construction, repair and rebuilding of overwater structures to increase light by 2012.	156		Done or not.		
120	7	Nearst	B	2	2.5	Take actions that protect intact marine environments and priority marine physical and ecolog			1	Ensure all Partners have access to and are using the science-based priority maps identified in B1 to inform the locations of specific marine protection actions and projects.	175		Percent of projects consistent with maps; goal is 100% consistent for state and federal funded projects; 80% (or 90?) consistency overall.		
121	7	Nearst	B	2	2.5	Take actions that protect intact marine environments and priority marine physical and ecolog			2	Evaluate effectiveness of Puget Sound marine reserves to increase protections for rockfish, forage fish habitat and/or species in existing MPAs.	144		Gap Analysis by TNC due by Spring 2012 and/or report WDFW by DATE; consistency with B1 maps (see NTA 1 above).		
122	7	Nearst	B	2	2.6	Give permitting agencies and local governments the tools and resources they need to ensure			1	[Who] will create a coordinated permit review and decision making process for shoreline significant development permits [other types of permits?] to provide additional efficiency and predictability for applicants and promote permitting agencies working together to ensure nearshore protection.	294		Done or not; some measure of how coordinated instead of sequential permits are? How quickly permit decisions are made?		
123	7	Nearst	B	2	2.6	Give permitting agencies and local governments the tools and resources they need to ensure			2	[something on increasing compliance and enforcement]	52		Number of miles/acres conserved; consistency with B1 maps (see NTA 1 above).		
124	7	Nearst	B	2	2.6	Give permitting agencies and local governments the tools and resources they need to ensure			3	[something on requiring information and documentation from permittees on the fact that permit conditions are met; and monitoring]	129				
125	7	Nearst	B	3	3	Implement and maintain priority nearshore and marine ecosystem restoration projects.					0				
126	7	Nearst	B	3	3.1	Use a variety of mechanisms to advance priority restoration projects.			1	[Who] will ensure implementation of the priority restoration projects as identified in the Puget Sound Nearshore Ecosystem Restoration Project (PSNERP) Strategic Restoration Conceptual Engineering – Final Design Report for which 10% design exists by [date]. [Add increment of progress on this anticipated by 2013.]	314		Number of projects funded; number implemented; amount of various nearshore habitats restored.		
127	7	Nearst	B	3	3.1	Use a variety of mechanisms to advance priority restoration projects.			2	[Who] will ensure implementation of [how much/how many] nearshore restoration projects consistent with the [PSNERP strategies report] by [date]. [Add increment of progress on this anticipated by 2013.]	202		Number of projects funded; number implemented; amount of various nearshore habitats restored.		
128	7	Nearst	B	3	3.1	Use a variety of mechanisms to advance priority restoration projects.			3	[Who will] locate mitigation banks, in lieu fee program sites, and advance mitigation sites consistent with the protection and restoration priorities identified in B1.	169				
129	7	Nearst	B	3	3.1	Use a variety of mechanisms to advance priority restoration projects.			4	DNR will increase the beneficial re-use of clean dredged material through the Dredged Material Management Program. Identify potential restoration sites that could qualify for placement of materials from routine maintenance dredge locations. Coordinate design and permitting of potential restoration sites to optimize the use of clean dredged material when it becomes available.	380				
130	7	Nearst	B	3	3.2	Provide incentives to encourage removal of armoring and associated fill and use of soft armor			1	[Who] will capitalize a low interest loan program to help homeowners remove armoring and restore nearshore processes and to replace hard armoring with soft shore or similar techniques [by when].	194		Number of loans? Miles of bulkhead replaced w/ soft armoring?		
131	7	Nearst	B	3	3.2	Provide incentives to encourage removal of armoring and associated fill and use of soft armor			2	[blank in document]	19				
132	7	Nearst	B	3	3.2	Provide incentives to encourage removal of armoring and associated fill and use of soft armor			3	[Who] will create a recognition program to highlight retrofits, redevelopments, bulkhead removals, and soft shoreline projects that demonstrate key techniques and restore nearshore processes by [when].	201		Program in place or not; number of awards.		
133	7	Nearst	B	3	3.3	Implement priority marine restoration actions consistent with the Soundwide priorities identif			1	DNR will meet annual GMAP performance expectations for derelict vessel removals by [date].	90		Number or volume of removals.		
134	7	Nearst	B	3	3.3	Implement priority marine restoration actions consistent with the Soundwide priorities identif			2	DNR will apply USCG Large Derelict Vessel Task Force recommendations to Puget Sound by [date].	94		Provide and apply results to maritime community.		
135	7	Nearst	B	3	3.3	Implement priority marine restoration actions consistent with the Soundwide priorities identif			3	DNR will complete derelict creosote piling inventory of Puget Sound and remove 15,000 pilings by [date].	104		Done or not; number of pilings removed; amount of removal in priority areas per B1?		
136	7	Nearst	B	3	3.3	Implement priority marine restoration actions consistent with the Soundwide priorities identif			4	Northwest Straits Commission will remove remaining derelict nets near shore in Puget Sound by [date].	101		Complete removal of about 500 known legacy nets.		
137	7	Nearst	B	3	3.4	Accelerate restoration projects on public lands where government can lead by example.			1	[State parks] will identify opportunities to remove hard armoring at Parks and will implement at least [number] of miles of armoring removal by [date].	153		Done or not; miles removed		
138	7	Nearst	B	3	3.4	Accelerate restoration projects on public lands where government can lead by example.			2	[USACE] will identify opportunities to remove hard armoring at federal facilities and work with responsible agencies to implement at least [number] of miles of armoring removal and/or softening by [date].	204				

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139	7	Nearst	B	3	3.4	Accelerate restoration projects on public lands where government can lead by example.			3	DNR, in collaboration with Ecology, DFW, Department of Veterans Affairs, and Parks, shall deploy Puget SoundCorps crews on protection and restoration projects on state-owned lands.	180				
140	7	Nearst	B	3	3.5	Expand funding for restoration projects.			1	Complete PSNERP General Investigation and seek authorization for construction.	78				
141	7	Nearst	B	3	3.5	Expand funding for restoration projects.			2	Investigate other funding sources, including existing US Army Corps of Engineers authorities.	93				
142	7	Nearst	B	3	3.5	Expand funding for restoration projects.			3	Create a dedicated fund to (a) support Puget SoundCorps crews to provide cost-effective restoration services on state-owned aquatic lands and (b) provide incentives for removal of armoring along Puget Sound shorelines that is not necessary for property protection.	264				
143	7	Nearst	B	4	4	Support economic viability of working waterfronts to help maintain ecosystem function and sustain quality of life					0				
144	7	Nearst	B	4	4.1	Ports/Marine Industry: Use, coordinate, expand and promote financial incentives and program			1	Ecology will provide funding assistance for marinas to meet requirements for stormwater discharge and pressure wash water treatment of copper from boat repair and maintenance activities.	186		Number of marinas meeting stormwater discharge and pressure wash water treatment requirements		
145	7	Nearst	B	4	4.1	Ports/Marine Industry: Use, coordinate, expand and promote financial incentives and program			2	A multi-party working group will explore the feasibility of expanding the phase-out of copper bottom paint: For recreational boats over 65 feet in length and/or commercial vessels of various sizes.	197		Working group formation and timeline for development of recommendations		
146	7	Nearst	B	4	4.1	Ports/Marine Industry: Use, coordinate, expand and promote financial incentives and program			3	Ecology will provide funding assistance for ports and maritime industry to undertake comprehensive stormwater management planning.	130		Number of completed comprehensive stormwater management plans for ports and/or marinas.		
147	7	Nearst	B	4	4.1	Ports/Marine Industry: Use, coordinate, expand and promote financial incentives and program			4	Ecology and ports/marinas in Washington will jointly fund research and innovation in lower impact methods of shoreline armoring in an urban industrial context.	159				
148	7	Nearst	B	5	5	Protect and recover marine & nearshore species					0				
149	7	Nearst	B	5	5.1	Biodiversity Strategy: Implement existing biodiversity plans in a coordinated way while a mor			1	This strategy is described in detail in strategy A9.1] [check that cross ref is still correct]	94				
150	7	Nearst	B	5	5.2	Marine and Nearshore Species Recovery: Implement existing marine and nearshore species r			2	Appropriate state agencies will prioritize the implementation of their restoration projects identified within existing marine & nearshore species recovery plans.	161				
151	7	Nearst	B	5	5.2	Marine and Nearshore Species Recovery: Implement existing marine and nearshore species r			3	Use and augment existing species plans to create actionable work plans for imperiled species without existing or specified plans. Such species include Geoduck Clam, Pinto Abalone, Olympia Oyster, Dungeness Crab, Pacific Hake, Pacific Cod, Walleye Pollock, and Rockfish	270		Number of actionable work plans for imperiled species currently lacking such plans		
152	8	Fill Key	B	6	6	Prevent and respond to the introduction of marine invasive species					0				
153	8	Fill Key	B	6	6.1	Prevent and rapidly respond to the introduction and spread of marine invasive species.			1	The Invasive Species Council will expand its baseline assessment to include an additional 15 of the Council's priority invasive species. The assessment provides locations of species; details about management programs, and identifies gaps that exist.	249		Assessment completed by June 30, 2015		
154	8	Fill Key	B	6	6.1	Prevent and rapidly respond to the introduction and spread of marine invasive species.			2	The Invasive Species Council, in collaboration with PSP, will begin developing an early detection and monitoring program plan for priority invasive species in Puget Sound. The Council and PSP will coordinate the plan and implementation efforts with the Puget Sound Coordinated Ecosystem Monitoring and Assessment Program.	322		Develop work plan and cost estimates by June 30, 2015.		
155	8	Fill Key	B	6	6.1	Prevent and rapidly respond to the introduction and spread of marine invasive species.			3	Washington Department of Fish and Wildlife will evaluate options for managing invasive species transported on the hulls and sea chests of commercial ships.	155		Complete literature survey and draft recommendations by June 30, 2015.		
156	8	Fill Key	B	6	6.1	Prevent and rapidly respond to the introduction and spread of marine invasive species.			4	Washington Department of Fish and Wildlife will complete an assessment of the effectiveness of open sea exchange and treatment in meeting state ballast water standards.	168		Complete report and make available to resource managers and the public by June 30, 2015.		
157	8	Fill Key	B	6	6.2	Answer key invasive species research questions and fill information gaps.			1	The Washington Invasive Species Council and Puget Sound Partnership will initiate a risk assessment to evaluate the environmental and economic impacts of invasive species in the Puget Sound Basin and incorporate short-term climate change considerations.	253		Complete risk assessment by June 2015.		
158	9	Prever	C	1	1	Reduce the sources of toxic chemicals entering Puget Sound			1		0				

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159	9	Prever	C	1	1.1	Implement and strengthen authorities and programs to prevent toxic chemicals from entering				1	Ecology, working with its partners, will complete a PAH Chemical Action Plan by 2012 and begin to implement the recommendations from the Plan. (Wood smoke actions in the CAP will build from the control strategies outlined in the Tacoma State Implementation Plan for fine particulates. The CAP may also include recommendations such as diesel fleet retrofit activities and/or electrical shore power for ships at Port facilities.)	429		PAH chemical action plan completed or not, pounds/year of PAH reduced		
160	9	Prever	C	1	1.1	Implement and strengthen authorities and programs to prevent toxic chemicals from entering				2	By December 1, 2012, Ecology will develop rules to implement the state law relating to limiting copper used in vehicle brake friction material.	143		Rules developed or not, pounds/year of copper reduced		
161	9	Prever	C	1	1.1	Implement and strengthen authorities and programs to prevent toxic chemicals from entering				3	Ecology will complete a Chemical Action Plan for PFOS (perfluorooctane sulfonate) or all PFCs (perfluorinated compounds) by 2013, which will include an evaluation of safer alternatives and recommendations for reducing use of PFOS and/or PFCs.	243		PFOS or PFC chemical action plan completed or not		
162	9	Prever	C	1	1.1	Implement and strengthen authorities and programs to prevent toxic chemicals from entering				4	Ecology will establish a mercury lamp product stewardship program by 2013.			Program established or not, pounds/year of mercury reduced		
163	9	Prever	C	1	1.1	Implement and strengthen authorities and programs to prevent toxic chemicals from entering				5	Water Quality and Sediment Standards Updates: The Northwest Indian Fisheries Commission and several tribes in the Puget Sound region (and other areas of the state) are examining existing information on fish consumption and in 2012 will provide recommendations to Ecology on tribal consumption rates to support the revisions to the standards. In 2012, Ecology plans to revise the state's sediment quality standards and begin the process to revise the water quality standards to reflect up-to-date information about rates of fish and shellfish consumption in Washington.			Standards revised or not		
164	9	Prever	C	1	1.1	Implement and strengthen authorities and programs to prevent toxic chemicals from entering				6	Alternatives to Copper in Pesticides. By 2013, the Washington Department of Agriculture and Department of Ecology will assemble data on non-agricultural use of copper-based pesticides in Washington and evaluate alternatives to copper in pesticides to identify whether safer alternatives are available and commercially viable. Based on the alternatives analysis results, the agencies will explore options to limit the use of copper-based pesticides, if better alternatives are available.			Better loading estimates for copper from pesticide use, identification of alternatives to copper in pesticides, identification of options to limit the use of copper-based pesticides for residential use		
165	9	Prever	C	1	1.1	Implement and strengthen authorities and programs to prevent toxic chemicals from entering				7	The auto shred task force chartered by Ecology will issue its recommendations regarding how to reduce the amount of toxic chemicals present in all shred residue from shredding automobiles and other metal objects by 2012. In 2013, Ecology will begin implementation of the recommendations for an all shred residue program to reduce the amount of toxic chemicals in shred residue.			Recommendations developed or not, number of businesses adopting practices to reduce the amount of toxic chemicals in all shred residue		
166	9	Prever	C	1	1.1	Implement and strengthen authorities and programs to prevent toxic chemicals from entering				8	Ecology and its partners will identify and implement actions such as piling and bulkhead removal to address problems associated with creosote-treated wood in nearshore areas of Puget Sound.			Number of creosote-treated wood pilings removed		
167	9	Prever	C	1	1.1	Implement and strengthen authorities and programs to prevent toxic chemicals from entering				9	Monitoring and Assessment: PSP and the agencies involved in toxics source-reduction programs in the Puget Sound region—including air, stormwater, wastewater, and toxics reduction programs at Ecology, DNR, DOH, and local jurisdictions—will develop a long-term Puget Sound toxics monitoring and assessment program that would cover: (1) status and trends monitoring of toxics in and released to Puget Sound; (2) effectiveness of strategies and actions to reduce and prevent toxic chemicals from entering the Puget Sound environment; and (3) annual progress reports that compile information on results and effectiveness from multiple programs. To avoid redundancy and improve program design, this toxics-focused effort will be coordinated with and through the Puget Sound Assessment and Monitoring Program. Provided that funding is obtained, the agencies would seek to make recommendations for monitoring in 2012, and develop a monitoring plan in 2013.			Monitoring and assessment plan developed or not		

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168	9	Prever	C	1	1.2	Promote the development and use of safer alternatives to toxic chemicals.				1	The EPA Design for Environment Program will complete an assessment of alternatives to commercial uses of phthalates in 2012 as part of its Phthalates Action Plan. By 2013, the Department of Ecology will interpret the data provided in EPA's phthalate alternative assessment, as well as other sources, and recommend alternative(s) to phthalates in specific applications. Ecology will also incorporate the information on safer alternatives into its guidance materials and technical assistance efforts and recommend and take actions to reduce phthalates entering Puget Sound. Future efforts will incorporate the recommendations of the Sediment Phthalate Workgroup, which provided recommendations on sediment recontaminated by phthalates in stormwater.	749		Phthalates alternatives assessment completed or not, phthalate alternatives identified or not, recommendations on phthalate reduction identified		
169	9	Prever	C	1	1.2	Promote the development and use of safer alternatives to toxic chemicals.				2	Ecology will work with the Interstate Chemicals Clearinghouse (IC2) to develop a guidance document on chemical alternatives assessment by 2013.	143		Guidance document developed or not		
170	9	Prever	C	1	1.2	Promote the development and use of safer alternatives to toxic chemicals.				3	Ecology and key stakeholders in business, government, and academia will develop a green chemistry road map for Washington by 2012 outlining ways to promote the adoption of green chemistry practices. Ecology will begin implementation of the recommendations in the roadmap and advance green chemistry practices through the Green Chemistry Roundtable, which includes government, business, and non-governmental partners. By 2013, Ecology will host a green chemistry conference in the region.	489		Green chemistry road map developed or not, green chemistry conference held or not		
171	9	Prever	C	1	1.2	Promote the development and use of safer alternatives to toxic chemicals.				4	By 2013, Ecology will complete assessments of five chemicals to identify safer alternatives, provided that Ecology receives grant funding.	138		Alternatives assessments complete or not		
172	9	Prever	C	1	1.2	Promote the development and use of safer alternatives to toxic chemicals.				5	Safer Roofing Alternatives. Ecology will establish a task force that will oversee a study evaluating toxic materials (including toxic metals and, possibly, phthalates) in roofing materials and recommend strategies for promoting less-toxic alternatives by 2013. To support the task force's work, Ecology will solicit information from manufacturers on the presence of toxic chemicals in roofing materials. Using any data from manufacturers or previously published studies, Ecology will create and implement a sampling strategy to assess the release of contaminants from different roofing materials. The task force will use this information to develop its recommendations.			Study of toxic materials in roofing materials completed or not, task force recommendations developed or not		
173	9	Prever	C	1	1.3	Adopt and implement plans and control strategies to reduce toxic releases into the Puget Sou				1	Ecology will complete development of a State Implementation Plan for the Tacoma/Pierce County air quality non-attainment area for fine particulates (PM 2.5) by 2012, and will adopt the necessary regulations by 2013.	215		Tacoma PM 2.5 SIP completed or not		
174	9	Prever	C	1	1.3	Adopt and implement plans and control strategies to reduce toxic releases into the Puget Sou				2	Ecology will complete a statewide anti-idling regulation by July 1, 2013 to reduce petroleum emissions to the air. The regulations would be designed to reduce diesel soot, PAHs, and greenhouse gases from petroleum-powered engines and equipment.	245		Regulation completed or not, diesel emissions reduced per year (after the regulation is effective)		
175	9	Prever	C	1	1.4	Provide education and technical assistance to prevent and reduce toxic releases.				1	Local Source Control Programs. EPA and Ecology will continue to support and expand the Local Source Control Partnership in Puget Sound in which local jurisdictions provide education and technical assistance to small businesses to prevent pollution and reduce sources of polluted runoff.	286		Number of local source control visits completed per quarter (Ecology's statewide target is 600 per quarter)		
176	9	Prever	C	1	1.4	Provide education and technical assistance to prevent and reduce toxic releases.				2	Toxics Metals Reductions: Ecology will continue to support site visits and other technical assistance for pollution prevention planner facilities in the state that use or produce waste containing lead, mercury, or cadmium to help them to reduce their hazardous wastes.	269		Number of toxic metals site visits conducted per quarter (statewide goal of 25 per quarter); reductions in lead, mercury, and cadmium from businesses reporting via TRI, pounds of hazardous waste generated per year		

line	Category	text	Strategy	subtask	Sub-Strategy text	Ongoing Programs	owner	Performance Measure	NTA #	NTA desc	char	owner	Performance Measure	owner	performance objectives
177	9	Prever	C	1	1.4	Provide education and technical assistance to prevent and reduce toxic releases.			3	Landscaper Certification. By 2013, the Department of Ecology will work with the Washington Department of Agriculture, business associations, and other stakeholders to establish a landscaper certification program to promote environmentally friendly landscape development and maintenance practices. The program would be designed to reduce the use of pesticides containing toxic chemicals, reduce the use of fertilizers, reduce runoff from landscaped properties, reduce use of water for irrigation, reduce emissions from landscape equipment, and improve habitat.	560				Program established or not, number of accredited professionals or certified sites (or other participation measure)
178	9	Prever	C	1	1.4	Provide education and technical assistance to prevent and reduce toxic releases.			4	By 2013, the Department of Ecology will work with the new Washington Department of Enterprise Services to develop environmental opportunity assessments for 6 to 10 contracts; these assessments will identify environmentally preferable purchases that could help reduce toxic pollution while seeking best value for the state. Best value includes looking at price, performance, availability and environmental considerations when developing and awarding contracts.	461				Number of completed "environmental opportunity assessments" for Department of Enterprise Services contracts, number of environmentally preferable purchases completed based on the assessments, pounds of hazardous wastes reduced per year
179	9	Prever	C	1	1.5	Increase compliance with and enforcement of environmental laws, regulations, and permits.			1	Increase funding for Ecology's hazardous waste, wastewater, and air quality compliance inspection and enforcement programs to allow for increased compliance inspections of facilities in the Puget Sound region.	211				Number of compliance inspections completed per year, pounds of hazardous wastes and air pollutants reduced per year, volume of wastewater discharges reduced per year
180	10	Contro	C	2	2	Use a comprehensive approach to manage urban stormwater runoff at the site and landscape scales					0				
181	10	Contro	C	2	2.1	Manage urban runoff at the basin and watershed scale			1	Protect best remaining streams - King County, in cooperation with agencies populating the Puget Sound Stream Benthos database, identify and map remaining streams with "excellent" B-IBI scores and develop an overall strategy and tailored actions to protect these areas.	268				Map of all streams with "excellent" B-IBI scores; robust strategies and actions to protect the stream drainages.
182	10	Contro	C	2	2.1	Manage urban runoff at the basin and watershed scale			2	Watershed characterization - Washington State Department of Ecology, in cooperation with the Puget Sound Partnership, completes the Puget Sound Watershed Characterization Project and shares information & guidance from this & EPA-funded watershed planning projects to inform local land use planning decisions regarding where to protect, develop, or restore. Follow up with finer scale analyses to determine locations and types of restoration strategies.	452				Completed study; developed and distributed guidance or report; local governments using this in land use planning; local governments and state using this to inform restoration efforts.
183	10	Contro	C	2	2.1	Manage urban runoff at the basin and watershed scale			3	System mapping - Washington State Department of Ecology, in cooperation with local governments, works to better understand and manage the region's stormwater infrastructure, develop protocols, methodology and definitions, and develop geo-referenced databases that can be compiled into an overall geo-referenced database of the Sound's regulated, municipal stormwater system.	374				Protocols, methodology and definitions to guide mapping and documentation efforts; completed geo-referenced database.
184	10	Contro	C	2	2.2	Prevent problems from new development at the site & subdivision scale			1	Muni NPDES Permits - Washington State Department of Ecology reissues the municipal NPDES permits and provides financial assistance to permittees for implementation, particularly for code changes, stormwater system mapping, operations and maintenance, inspections and enforcement. Ensure permits contain requirements for LID and status and trends monitoring; effectiveness studies; and source control. Provide additional resources to Ecology for permit oversight and enforcement. Provide incentives to NPDES permittees who, by interlocal agreement, lead or carry out regional or watershed scale NPDES implementation.	615				Reissued permits with LID and monitoring requirements; financial assistance provided to permittees; incentives provided to permittees for regional implementation; additional resources to Ecology.
185	10	Contro	C	2	2.2	Prevent problems from new development at the site & subdivision scale			2	Treatment - Washington State Department of Ecology evaluates under which circumstances (i.e., for which pollutants, from which land uses) discharges to Puget Sound should be required to provide treatment beyond sediment removal (i.e., TSS removal) to help meet 2020 recovery targets.	284				Evaluation with supporting documentation.

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186	10	Contro	C	2	2.2	Prevent problems from new development at the site & subdivision scale				3	LID - Washington Stormwater Center and Puget Sound Partnership provide guidance on proper siting, design, review, installation & maintenance of LID practices. Provide guidance and model ordinances to help local governments add LID requirements to codes and standards. Develop and share information on LID projects, cost comparisons, performance, longevity, maintenance needs, incentives, successes and challenges.	414		Updated guidance and model ordinances; distribution of info on projects & other listed needs		
187	10	Contro	C	2	2.2	Prevent problems from new development at the site & subdivision scale				4	Outside permitted areas - Washington State Department of Ecology provides assistance to help non-permitted local governments reduce stormwater impacts to high priority areas, such as shellfish growing areas, salmon-bearing streams, and nearshore areas.	253		Assistance provided to non-permitted local governments; reduced impacts from stormwater discharges to high priority areas		
188	10	Contro	C	2	2.2	Prevent problems from new development at the site & subdivision scale				5	Evaluate unpermitted areas - Washington State Department of Ecology evaluates unpermitted areas with documented stormwater discharges to shellfish growing areas, or discharges causing other harms, for potential municipal NPDES permit coverage.	244		Evaluation of non-permitted areas for inclusion in 2013 municipal permit.		
189	10	Contro	C	2	2.2	Prevent problems from new development at the site & subdivision scale				6	Vesting - Washington Stormwater Center or Puget Sound Institute assess projected implications and impacts of current state vesting laws on aquatic resources and beneficial uses. Prepare report for the Science Panel, ECB and LC.	227		Proposed performance measure: Report on projected implications and impacts of current vesting laws.		
190	10	Contro	C	2	2.3	Fix problems caused by existing development (structural upgrades; regular & enhanced main				1	Retrofits - Washington State Department of Ecology and Puget Sound Partnership, in partnership with local governments, develop a regional prioritization process for structural stormwater retrofits. Assess the level of effort (i.e., projects and acreage) needed. Develop new funding for planning and construction, and begin projects. Include retrofits to transportation network.	377		New regional SW retrofit prioritization process; development of new funding source; assessment of level of effort needed.		
191	10	Contro	C	2	2.3	Fix problems caused by existing development (structural upgrades; regular & enhanced main				2	Restore degraded streams - King County, in cooperation with agencies populating the PS Stream Benthos database, identify & map stream drainages with "fair" B-IBI scores, and develop prioritized list, strategies and actions to improve scores of 30 of these streams.	264		Map of targeted drainages; prioritized list for restoration; strategies, actions, and budgets.		
192	10	Contro	C	2	2.3	Fix problems caused by existing development (structural upgrades; regular & enhanced main				3	Legacy pollutants - Washington State Department of Ecology, in cooperation with local governments, provides guidance and financial assistance to local governments to help them remove legacy pollutant loads from their stormwater systems.	236		Shared guidance; financial assistance to permittees.		
193	10	Contro	C	2	2.3	Fix problems caused by existing development (structural upgrades; regular & enhanced main				4	Retrofit in permits - Washington State Department of Ecology ramps up retrofit requirements in municipal NPDES permits and provides technical and financial assistance to permittees for development and implementation of programs.	228		Clearer, increased requirements for retrofits in municipal permits with ramp-up time; technical and financial assistance to permittees.		
194	10	Contro	C	2	2.4	Control sources of pollutants				1	Source control - Washington State Department of Ecology provide guidance and financial assistance to local governments to establish & carry out pollution identification & correction programs to reduce bacteria loadings to shellfish growing areas, carry out TMDL actions, and reduce toxics, nutrients and bacteria to nearshore areas.	332		Guidance and financial assistance to local governments on local pollution identification & correction programs.		
195	10	Contro	C	2	2.4	Control sources of pollutants				2	Inspections - Washington State Department of Ecology provides technical and financial assistance to local governments to carry out broader inspection, assistance and enforcement programs for business and construction sites. Use results of toxics loading studies to target and prioritize efforts.	295		Increased number of inspections, assistance, and enforcement.		
196	10	Contro	C	2	2.4	Control sources of pollutants				3	Vehicle leak program - Puget Sound Partnership, in cooperation with WSDOT and advisory committee, convene group to discuss options for developing a new program to inspect and eliminate privately-owned vehicle drips and leaks.	226		Report on options, benefits, costs, feasibility		

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197	10	Contro	C	2	2.5	Provide focused stormwater-related education and training				1	Education - Puget Sound Partnership, Washington State Department of Ecology, and local governments develop funding for and carry out broad stormwater-focused education and behavior change campaign. Emphasize problems, sources, solutions and roles, funding needs, and stormwater management on home lots. Provide focused information for legislators on problems, issues, funding needs, results of toxics loading studies, 2020 recovery targets, and ideas and options relating to needed product bans and phase-outs.	512		Funding and implementation of campaign; behavior changes of homeowners; information to legislators		
198	10	Contro	C	2	2.5	Provide focused stormwater-related education and training				2	Training - Washington Stormwater Center; Washington State Department of Ecology and Puget Sound Partnership provide focused training for local government staff on LID project review; inspections and approvals, and to local government staff and private sector on maintenance. Develop new professional certification for stormwater maintenance specialists. Provide business staff and contractors with training on source control, spill recognition, spill response, and erosion control.	484		Increased professional training with additional emphases on topics listed; new certification for maintenance specialists; new source control training for businesses.		
199	10	Contro	C	2	2.6	Assess effectiveness of actions and effects on the environment				3	Monitoring & assessment - Washington State Department of Ecology, in cooperation with Stormwater Work Group, carries out the recommendations of the Stormwater Work Group for status & trends monitoring; BMP and program effectiveness; and source control. Develop priorities for and expand implementation of the 2010 Stormwater Monitoring and Assessment Strategy for the Puget Sound Region beyond municipal permit requirements.	425		Recommendations of the SWG implemented; SWG develops priorities for expanded implementation (to other permits and land uses).		
200	10	Contro	C	2	2.6	Assess effectiveness of actions and effects on the environment				4	Stormwater Center - Washington Stormwater Center develops ongoing, stable funding for the Washington Stormwater Center to conduct research on stormwater BMPs; and provide municipalities and businesses with needed information and assistance.	241		Stable funding for the WA Stormwater Center; stormwater research projects and sharing of info; needed assistance to municipalities and businesses		
201	10	Contro	C	2	2.6	Assess effectiveness of actions and effects on the environment				5	CSOs - Washington State Department of Ecology, EPA, and communities with combined sewers develop and share annual report on progress in reducing CSO events. Evaluate existing reduction plans in terms of 2020 targets.	217		Annual reports on progress. Evaluation of existing reduction plans.		
202	11	Prever	C	3	3	Prevent, reduce and/or eliminate pollution from decentralized wastewater treatment systems				6		0				
203	11	Prever	C	3	3.1	Effectively manage and control pollution from small on-site sewage systems.				1	DOH, in consultation with LHJs, will evaluate the effectiveness of the state OSS rule, identify potential changes, and outline recommendations to the State Board of Health by 2013.	181		Done or not		
204	11	Prever	C	3	3.1	Effectively manage and control pollution from small on-site sewage systems.				2	DOH will coordinate with LHJs and other interests to develop standards of practice for O&M providers in the Puget Sound region by [date]. These standards will focus on providing standard criteria and guidance for successful O&M activities.	241		Standards complete or not; number of O&M inspections completed per standards?		
205	11	Prever	C	3	3.1	Effectively manage and control pollution from small on-site sewage systems.				3	DOH will evaluate public domain OSS treatment technologies for nitrogen reduction and develop standards and guidance for their use if testing results indicate the technologies are effective and reliable by [date].	218		Evaluation complete or not; standards and guidance (if appropriate) done or not; number of OSS where nitrogen reduction technologies are deployed.		
206	11	Prever	C	3	3.2	Effectively manage and control pollution from large on-site sewage systems.				1	LHJs will work to inventory, inspect and fix OSS and designate areas for enhanced management to make progress on the OSS ecosystem recovery target. To support this, DOH will work with LHJs to identify successes and best practices and develop common performance standards and recommend approaches to improve this work.	317				
207	11	Prever	C	3	3.3	Improve and expand funding for on-site system maintenance, repair and replacement.				1	LHJs will work with DOH, policy makers and other interests to develop legislation that will allow the county treasurer to collect local board of health fees needed to implement on-site management plans via property tax statements. The funding authority will allow inspection, monitoring, reporting, education and compliance activities and associated technology and infrastructure. Funding authority is needed for entire county OSS management areas and should not be limited to MRAs or special study areas.	509				

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208	11	Prever	C	3	3.3	Improve and expand funding for on-site system maintenance, repair and replacement.			2	DOH, Ecology, and Puget Sound Partnership will help evaluate options and support proposals to fund a unified, self-sustaining, low-interest loan program in the Puget Sound region to help homeowners repair and replace on-site sewage systems.	240				
209	11	Prever	C	4	4	Prevent, reduce and/or eliminate pollution from centralized wastewater systems			3		0				
210	11	Prever	C	4	4.1	Reduce the concentrations of contaminant sources of pollution conveyed to wastewater treat			1	Ecology will require increased annual monitoring for the full priority pollutant scan for all industrial users in pretreatment programs by 2013.	145		Done or not; number of industrial users who complete an annual full priority pollutant scan.		
211	11	Prever	C	4	4.2	Reduce pollution loading to Puget Sound by preventing and reducing Combined Sewer Overfl			2	None. Near-term work in this area is focused implementation of existing program requirements.	94				
212	11	Prever	C	4	4.3	Improve the reliability of the wastewater collection system by reducing inflow, infiltration and			1	[Who] In accordance with NPDES permits issued under the Clean Water Act, will reduce SSOs [by how much] in all areas of Puget Sound, beginning with MRAs by [date]. [Add increment of progress by 2013.]	201		Reduction in SSOs in MRAs and overall		
213	11	Prever	C	4	4.3	Improve the reliability of the wastewater collection system by reducing inflow, infiltration and			2	[Who] will reduce inflow and infiltration in centralized wastewater collection systems in all areas of Puget Sound [by how much], beginning with watersheds with declining baseflows or watersheds closed to additional withdrawals or otherwise water stressed, by [date]. [Add increment of progress by 2013.]	307		Reduction in I&I in priority watersheds and overall		
214	11	Prever	C	4	4.3	Improve the reliability of the wastewater collection system by reducing inflow, infiltration and			3	[Who] will reduce exfiltration in all areas of Puget Sound [by how much], beginning with watersheds and marine waters where bacteria concentrations violate water quality standards, by [date]. [Add increment of progress by 2013.]	229		Reduction in exfiltration in priority watersheds and overall		
215	11	Prever	C	4	4.3	Improve the reliability of the wastewater collection system by reducing inflow, infiltration and			4	Who] will complete evaluations of I/I project effectiveness in Puget Sound Basin and review evaluations from elsewhere to determine the potential effectiveness of I/I reduction programs by [date].	196		Done or not		
216	11	Prever	C	4	4.4	Implement priority upgrades of municipal and industrial wastewater facilities in urban and urt			1	The Department of Ecology will complete the South Sound Dissolved Oxygen Study by August 2012. If the study shows that something needs to be done to protect dissolved oxygen levels in South Puget Sound, Ecology will initiate a plan to improve water quality. Ecology will complete the Puget Sound Dissolved Oxygen Model in 2012, which will identify any other areas of concern in Puget Sound	391		Complete or not		
217	11	Prever	C	4	4.4	Implement priority upgrades of municipal and industrial wastewater facilities in urban and urt			2	The Department of Ecology will accelerate other ongoing efforts, including the TMDL process, to identify areas where enhanced wastewater treatment may be needed. In Puget Sound, results from TMDLs and water cleanup plans for Budd Inlet/Deschutes River will be available in 2013.	282		Complete or not		
218	11	Prever	C	4	4.4	Implement priority upgrades of municipal and industrial wastewater facilities in urban and urt			3	EPA and Ecology will advocate for continued funding of State Revolving Fund sources to support wastewater infrastructure upgrades.	132				
219	11	Prever	C	4	4.5	Ensure all centralized wastewater treatment plants meet discharge permit limits through com			1	None. Near-term work in this area is focused on implementing the requirements of existing programs.	100				
220	11	Prever	C	4	4.6	Promote appropriate reclaimed water projects to reduce pollutant loading to Puget Sound.			1	The Departments of Ecology will resume the Reclaimed Water Rule no earlier than 2013 or as directed by the Governor. The intent of this rule is to encourage the appropriate use of reclaimed water.	197				
221	11	Prever	C	4	4.6	Promote appropriate reclaimed water projects to reduce pollutant loading to Puget Sound.			2	The Department of Ecology will develop materials that describe the full range of beneficial uses for reclaimed water, best and appropriate uses, and public health issues (in consultation with the Department of Health) to expand market demand for reclaimed water. The draft guidance document developed for the rule is also on hold with the Reclaimed Water Rule until 2013 at the earliest.	388				
222	11	Prever	C	4	4.6	Promote appropriate reclaimed water projects to reduce pollutant loading to Puget Sound.			3	As part of the future Reclaimed Water Rule, The Partnership and the Department of Ecology will develop a comprehensive outreach and education approach to promote the appropriate use of reclaimed water, including incentives for reclaimed water use where appropriate, and reduce barriers to reclaimed water projects.	316				
223	11	Prever	C	5	5	Rethinking how We Plan for and Approach Wastewater Control and Management					0				

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224	11	Prever	C	5	5.1	Include assessment of cumulative impacts in planning and permitting for centralized and decc				1	The Departments of Commerce, Ecology and Health and the Department of Natural Resources will encourage communities to more comprehensively provide for wastewater treatment on a watershed basis, using water budgeting tools and striving to use all water resources available (including reclaimed water) to meet the needs of people and the environment by aligning existing plans and planning process to more effectively meet wastewater treatment and management needs. This might take the form of a pilot program in a watershed that has or will soon have a full TMDL assessment and a water cleanup plan.	599		Pilot project done or not?		
225	11	Prever	C	5	5.1	Include assessment of cumulative impacts in planning and permitting for centralized and decc				2	The Departments of Commerce, Ecology and Health will identify shoreline areas outside urban growth boundaries where residential densities are great enough that it may be appropriate to extend centralized wastewater collection systems and that are in close enough proximity to centralized treatment that extension of infrastructure may be feasible. The goal of this effort is completion of one pilot project by 2012.	418		Pilot program in place or not.		
226	11	Prever	C	6	6	Control and manage pollution from discharges of wastewater from boats & vessels						0				
227	11	Prever	C	6	6.1	Establish No Discharge Zones for commercial and/or recreational vessels in all parts of Puget				1	By Fall of 2013 the Departments of Ecology and Health, in coordination with the Department of Natural Resources, will conduct an evaluation and draft a petition to EPA to establish a No Discharge Zone for commercial and recreational vessels to eliminate bacteria, nutrients, and pathogens from being discharged to all or parts of Puget Sound. The evaluation will include researching petition requirements, gathering background information and pumpout station data for the petition, identifying, reaching out to, and getting input of stakeholders, identifying and prioritizing which areas of the Puget Sound are feasible for petition, and evaluate how to implement the designation.	682		Done or not?		
228	11	Prever	C	6	6.1	Establish No Discharge Zones for commercial and/or recreational vessels in all parts of Puget				2	The Departments of Ecology and Health, with NEP grant funding, will coordinate with Washington State Parks' Clean Vessel Program to assist in construction, repair and monitoring of pump out stations to meet requirements of the No Discharge Zone petition.	254		Number of pumpout stations added or improved. Amount of sewage pumped out. Pump out capacity is able to support a No Discharge Zone designation.		
229	12	Restor	C	7	7	Improve shellfish water quality and increase harvestable, upgraded shellfish acres in commercial						0				
230	12	Restor	C	7	7.1	Shellfish Bed Protection: Protect and prevent downgrade of important current commercial are				1	Assist counties in establishing and funding sustainable PIC programs to identify and fix nonpoint pollution problems with an emphasis on bacterial and viral control from for example, septic systems, agricultural runoff, pet waste, and boater discharges. These programs should routinely monitor water bodies, reach out to their communities to educate and inform them, and take actions to address problems, including enforcement.	428		Number of PIC assessments completed; need a target number of assessments; % of shellfish growing areas covered by a PIC program[should there be a geographic target to this action, e.g. emphasizing threatened areas and/or MRC w/out pic programs in place?]		
231	12	Restor	C	7	7.1	Shellfish Bed Protection: Protect and prevent downgrade of important current commercial are				2	Provide start-up and planning funding for Shellfish Protection Districts, including voluntary SPDs.	99		Amount of funding provided; number of new SPDs established.		
232	12	Restor	C	7	7.1	Shellfish Bed Protection: Protect and prevent downgrade of important current commercial are				3	Replicate model programs, such as those in Henderson Inlet and Oakland Bay, that create coordinated, locally-driven efforts to protect and improve shellfish growing areas to create a best practices library or menu highlighting successful strategies so that jurisdictions do not have to reinvent the wheel.	308		Best practices library complete or not; number of replicate efforts/programs.		
233	12	Restor	C	7	7.1	Shellfish Bed Protection: Protect and prevent downgrade of important current commercial are				4	4 [Something about acting more quickly or in a more concerted way when growing areas show up on the threatened list? Lessons learned from Samish beyond that we need sustainable non-point programs in every county?]	215		Reduction in the number of growing areas on the annual threatened inventory.		
234	12	Restor	C	7	7.2	Encourage environmentally responsible shellfish culture, gardening, restoration and enhancer				1	The Puget Sound Restoration Fund, in collaboration with individual tideland owners, Tribes, Marine Resource Committees of the NWSC, WDFO and other state and local partners, will accelerate restoration of the Olympia oyster by restoring 100 acres of beds by 2020.	264		Done or not; acres restored; number of participating homeowners/individual sites; increased native oyster seed settlement and recruitment in historic Olympia Oyster areas.		

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235	12	Restor	C	7	7.2	Encourage environmentally responsible shellfish culture, gardening, restoration and enhancer				2	Replicate projects using mussel culture or other suspended or beach culture to mitigate nitrogen pollution in sensitive areas, such as the project in Quartermaster Harbor. This aquaculture application serves to encourage public-private opportunities to reduce nitrogen impacts that are both efficient and cost effective and provide an alternative to advanced wastewater treatment technology.	391		Number of replicate projects?		
236	12	Restor	C	7	7.2	Encourage environmentally responsible shellfish culture, gardening, restoration and enhancer				3	[Are more NTAs needed? Something on shellfish gardening? Other restoration efforts? On use/application of the recently developed BMPs for shellfish restoration?]	162				
237	12	Restor	C	7	7.3	Resolve conflicts between aquaculture and upland uses.				1	n/a	3		None. Near-term work in this area is focused on implementation of ongoing programs especially marine spatial planning and the Department of Ecology's final Shoreline Management Act rule amendment to include geoduck aquaculture under county Shoreline Master Program updates.		
238	12	Restor	C	7	7.3	Implement NOAA's Sustainable Aquaculture Policy [reference] and the proposed National She				1	[Discussions are ongoing about implementation of these policies/initiatives relative to Puget Sound shellfish and near term actions will be added as they are identified. Some issues that may be addressed are the efficiency and effectiveness of permitting for shellfish aquaculture and restoration; ecosystem services provided by shellfish (e.g., filtering, nitrogen removal); and science needs.	396				
239	12	Restor	C	8	8	Agricultural Runoff						0				
240	12	Restor	C	8	8.1	Target voluntary and incentive-based programs in ways that will best contribute to Puget Sou				1	[who] will identify which, if any, NRCS best management practices should be modified or tailored to more effectively account for local conditions and support Puget Sound protection and recovery and make any needed modifications by [date].	238				
241	12	Restor	C	8	8.1	Target voluntary and incentive-based programs in ways that will best contribute to Puget Sou				2	[Anything on reducing toxics?]	30				
242	12	Restor	C	8	8.1	Target voluntary and incentive-based programs in ways that will best contribute to Puget Sou				3	Fund and implement voluntary incentive, stewardship and technical assistance programs for rural unincorporated landowners, hobby farms, working farms and nurseries .	165				
243	12	Restor	C	8	8.2	Ensure compliance with regulatory programs designed to reduce, control or eliminate pollutio				4	The Departments of Agriculture and Ecology and the Conservation Commission will establish priorities and develop related policies to effectively work together address pollution from agricultural lands by [date].	211		Done or not		
244	12	Restor	C	9	9	Surface Runoff from Forest Lands						0				
245	12	Restor	C	9	9.1	Demonstrate achievement of water quality standards through implementation of the Forest ai				1	Stabilize and diversify funding for the Forest Practices AMP, training and certification, compliance monitoring, and enforcement.	129				
246	12	Restor	C	9	9.1	Demonstrate achievement of water quality standards through implementation of the Forest ai				2	Obtain an independent performance review of the Forest Practices AMP to include an evaluation of the structure and function of the program, based on its performance, efficiency and accountability.	196				
247	12	Restor	C	9	9.2	Complete road maintenance and abandonment plans on public and privately held working for				1	Clear the current backlog of Family Forest Fish Passage Program projects within the Puget Sound Basin. As of September 2011, there are 148 projects that would open about 90 miles of habitat at an estimated cost of \$15 million.	226				
248	12	Restor	C	9	9.2	Complete road maintenance and abandonment plans on public and privately held working for				2	Complete a resource risk assessment of small forest landowner roads for the delivery of sediment to waters of the state and begin restoration on small forestlands in key watersheds in the Puget Sound Basin. Watersheds could be prioritized based on Ecology sediment gauging station data or Watershed Characterization analysis to identify the three highest priority watersheds for restoration based on SFL road systems. Conduct physical road condition risk assessments and fish passage barrier inventories for selected watersheds, focusing on high-risk, willing landowners.	571				

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249	12	Restor	C	9	9.2	Complete road maintenance and abandonment plans on public and privately held working for				3	Maintain adequate financial support for the Family Forest Fish Passage Program based on the resource risk assessment and prioritization. This should build on strong existing partnerships with federal agencies such as USDA Natural Resource Conservation Service, US Fish & Wildlife Service, NOAA Fisheries, EPA, and Bonneville Power Administration, as well as outreach to private sector and nonprofit sector funding sources.	422					
250	12	Restor	C	9	9.3	Ensure road systems in Federal forests meet the same substantive standards for maintenance				1	Secure executive-level participation from U.S. Forest Service in annual RMAP coordination meetings with landowners, WDFW, Ecology, affected tribes, NOAA-Fisheries, USFWS, affected counties, watershed councils and other interested parties within each watershed (per WAC 222-24-051(9)). Participants will discuss opportunities to provide a coordinated approach within each watershed resource inventory area by (1) prioritizing road maintenance and abandonment planning and (2) exchanging information on road maintenance and stream restoration projects.	550					
251	12	Restor	C	9	9.3	Ensure road systems in Federal forests meet the same substantive standards for maintenance				2	Pursue increased funding to the US Forest Service for the repair of failing legacy roads on federal forestlands in collaboration with the Washington Watershed Restoration Initiative and Washington's congressional delegation.	224					
252	12	Restor	C	10	10	Effectively prevent, plan for and respond to oil spills						0					
253	12	Restor	C	10	10.1	Prevention: Emphasize risk-based analyses to improve marine saf	Study,	Ecology	Ecology	1	Assess trends in incidents and near-misses to better target inspections and inform standards.	96	Study,	Ecology			
254	12	Restor	C	10	10.1	Prevention: Emphasize risk-based analyses to improve marine saf	Study,	Ecology	Ecology	2	Evaluate marine traffic models to better identify and mitigate high-risk areas and activities.	94	Study,	Ecology			
255	12	Restor	C	10	10.1	Prevention: Emphasize risk-based analyses to improve marine saf	Ecology	Ecology	Ecology	3	Strengthen marine safety standards in shared waters of WA/BC through consultation and coordination.	99	Ecology				
256	12	Restor	C	10	10.2	Readiness: Restore State's participation in and evaluation of drills	Ecology	Ecology	Ecology	1	Re-establish an appropriate level of tabletop drill participation by oil spill contingency planners at Ecology and WDFW	120	Ecology				
257	12	Restor	C	10	10.2	Readiness: Restore State's participation in and evaluation of drills	Ecology	Ecology	Ecology	2	Promote the integration of locals (governments, community, etc.) in State-organized drills and updates of Northwest Area Plan.	126	Ecology				
258	12	Restor	C	10	10.3	Response: Integrate best achievable technology (BAT) to promote	Ecology	Ecology	Ecology	1	Initiate and complete BAT rulemaking.	37	Ecology				
259	12	Restor	C	10	10.3	Response: Integrate best achievable technology (BAT) to promote	Ecology	Ecology	Ecology	2	Formulate Action Plan to implement transboundary recommendations of Pacific States/BC Task Force	96	Ecology				
260	9	Prever	C	11	11	Address and Clean Up Cumulative Water Pollution Impacts in Puget Sound				2		0					
261	9	Prever	C	11	11.1	Complete Total Maximum Daily Load (TMDL) studies and other necessary water cleanup plan:				1	Ecology will complete TMDL assessments for high-priority water bodies in Puget Sound watersheds. Ecology will also continue implementation of completed TMDL plans for the Puget Sound and adjacent watersheds.	208		Number of TMDL plans completed, changes in water quality parameters (dissolved oxygen, pollutant reductions, temperature, suspended solids, pathogens, etc.) specific to each TMDL			
262	9	Prever	C	11	11.2	Clean up contaminated sites within and near Puget Sound.				1	Ecology will continue to work with other organizations to identify, clean up, and restore contaminated sites located within one-half mile of Puget Sound. This includes the following "priority bays" for the Puget Sound Initiative: Anacortes Area (Fidalgo/Padilla Bays), Budd Inlet, Dumas Bay, Everett Area (Port Gardner Bay), Oakland Bay, Port Angeles Bay, and Port Gamble Bay. It also includes the following other major Puget Sound cleanup locations: Bellingham Bay, Bremerton area (Port Washington Narrows), Elliott Bay, and Lower Duwamish Waterway. Ecology will consult with DNR regarding cleanup activities on state-owned aquatic lands. Ecology will also ensure that these and other cleanup sites within the Puget Sound area have post-construction monitoring plans in place that provide data on the effectiveness of cleanup actions over time.	849		Number of remedial investigation/feasibility studies for cleanup sites completed, number of sites with final cleanup construction completed, acres of habitat restoration projects completed, post-construction monitoring plans in place			
263	9	Prever	C	11	11.2	Clean up contaminated sites within and near Puget Sound.				2	Restore and protect the Local Toxics Control Account (LTCA) under MTCA to assure continued, timely cleanup and remediation of toxic sites. Assure that Ecology is able to provide an appropriate level of state match to approved Remedial Action Grant projects and that the LTCA is protected for its intended statutory purposes.	325		Funding for the Local Toxics Control Account per year, number of Remedial Action Grant projects completed (final cleanup construction complete) with LTCA funds			

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264	9	Prever	C	11	11.3	Restore and protect water quality at swimming beaches and recreational areas.				1	The Departments of Ecology and Health with work with relevant local jurisdictions and tribes to investigate the root causes of the problems at the beaches that consistently fail to meet water quality standards and will develop implementation plans with schedules for restoring water quality conditions at those high priority beaches. These cleanup planning efforts will be done in conjunction with any ongoing TMDL studies for the water bodies in which the beaches are located.	479					Implementation plans for resolving problems at priority beaches developed or not	
265	9	Prever	C	11	11.3	Restore and protect water quality at swimming beaches and recreational areas.				2	The Departments of Ecology and Health, working with the Steering Committee for the Puget Sound Assessment and Monitoring Program, will develop a program for coordinated environmental monitoring and notification of public health threats from contaminated water at freshwater swimming beaches. The Steering Committee will discuss a proposed approach for a beach monitoring program for the Puget Sound region by 2013.	415					Development and adoption of a freshwater beach assessment and monitoring program	
266	9	Prever	C	11	11.3	Restore and protect water quality at swimming beaches and recreational areas.				3	The Departments of Ecology and Health will evaluate options for expanding the marine BEACH program to address potential water-contamination issues faced by all recreational users of Puget Sound marine waters, including surfers, paddle boarders, kite boarders, and scuba divers. The agencies will expand the BEACH program or take other appropriate actions to address the issues of non-swimming recreational users by 2013.	421					Program expanded or not or other control measures instituted	
267	9	Prever	C	11	11.4	Develop and implement local and tribal pollution identification and correction (PIC) programs.				1	Local jurisdictions and tribes will establish or enhance PIC programs to identify and address pathogen, nutrient, and toxic pollution problems in specific geographical areas that may arise from a variety of sources, including on-site sewage systems, stormwater runoff, agricultural sources, and other nonpoint sources. Grant funding available through 2014 can help these agencies to design programs that integrate across multiple local water quality interests.	461					Number of new PIC programs established; reductions in pathogens, nutrients, and toxic pollutants (pounds/year) from PIC water quality improvement efforts	
268	9	Prever	C	11	11.5	Develop and implement a monitoring and evaluation program.				1	PSP will work with Ecology, DNR, DOH, other key implementation agencies, and stakeholders for the Action Agenda to develop a program for monitoring the effectiveness of activities to reduce water pollution to Puget Sound and monitoring progress towards ecosystem recovery targets for water quality. This will be done through the activities described in strategies PSP8 (build a performance measurement system), PSP9 (strategies related to science and ecosystem monitoring), and PSP10 (strategies related to adaptation and learning circle).	540					Effectiveness monitoring program established or not	
269	13	Fill	Key	C	12	12	Strategies and actions to flow from the BSWP effort											
270	13	Fill	Key	D	1	1	Foster collaborative partnerships across partner interests and sectors to advance implementation.											
271	13	Fill	Key	D	1	1.1	Continue to improve, support and advance the coordination of local recovery actions via local integrating organizations.											
272	13	Fill	Key	D	1	1.2	Focus collective partner implementation efforts advance implementation of multiple needs											
273	13	Fill	Key	D	1	1.3	Integrate and coordinate Puget Sound ecosystem recovery efforts with related work in Canada and along the west coast.											
274	13	Fill	Key	D	1	1.4	Engage and coordinate diverse members and expertise of the scientific community to provide the scientific information that will inform and advance Puget Sound recovery											
275	13	Fill	Key	D	1	1.5	Continue to explore and implement creative ways to offer and share technical expertise across sectors and interests.											
276	14	Contin	D				Expand Regional Stewardship											
277	14	Contin	D	2	2	2	Cultivate broad-scale practices and behaviors among Puget Sound Residents that benefit Puget Sound.											
278	14	Contin	D	2	2.01	2.01	Promote science-based targeted communications and behavior change approaches.											
279	14	Contin	D	2	2.02	2.02	Develop and implement comprehensive behavior change strategies (i.e., social marketing, diffusion, and other proven behavior change approaches) targeted to priority actions and audiences.											
280	14	Contin	D	2	2.03	2.03	Enable and encourage residents to take informed stewardship actions beneficial to Puget Sound related to infiltration, pollution reduction, habitat improvement, forest cover, soil development, critical areas, shoreline armoring, and other rela											
281	14	Contin	D	2	2.04	2.04	Prioritize investments to address detrimental practices and behaviors based on 1) problem severity, 2) problem frequency (i.e., how frequent and widespread the problem occurs), 3) availability of and confidence in science (natural and socia											
282	14	Contin	D	2	2.05	2.05	Integrate vetted messages and technical assistance into existing programs (behavior change, adult education, volunteerism, pollution identification and correction, youth education, and public awareness) to stimulate broad-scale individual st											
283	14	Contin	D	2	2.06	2.06	Sustain and expand targeted volunteer and public engagement programs that support Action Agenda priorities and that have demonstrated ongoing measurable progress. Improve the capacity, sustainability, participation, engagement, effec											
284	14	Contin	D	2	2.07	2.07	Sustain and expand local, targeted, behavior change programs that support Action Agenda priorities and that have demonstrated ongoing measurable progress. Improve the capacity, sustainability, strategies, effectiveness, and outcomes of											
285	14	Contin	D	2	2.08	2.08	Provide uniform guidance to partners for the development of Best Management Practice Diffusion Strategies, including 1) the intentional dissemination of priority practices and behaviors and 2) the formative research and analysis needed to c											
286	14	Contin	D	2	2.09	2.09	Compile and disseminate a unified body of market, social, and audience research for priority practices. Link and combine research and data from local governments, state government, federal government, nonprofit, and private sector sourc											
287	14	Contin	D	2	2.10	2.10	Review practices and issues that require solutions beyond the Puget Sound region such as automotive, manufacturing and distribution of toxins, and pharmaceutical waste management. Prioritize and develop strategies to develop solutions w											
288	14	Contin	D	3	3	3	Build Issue Awareness and Understanding that fosters beneficial practices and behaviors and removes institutional barriers to those practices.											
289	14	Contin	D	3	3.1	3.1	Implement a long-term, highly visible, coordinated public-awareness effort to increase public understanding of Puget Sound's health, status, and threats: Conduct regionally-scaled communications to provide a foundation for local communica											
290	14	Contin	D	3	3.2	3.2	Incorporate Puget Sound related messages and actions into the daily activities of diverse social settings (e.g., recreation, education institutions, local government, neighborhood and community groups, nonprofit organizations).											
291	14	Contin	D	3	3.3	3.3	Incorporate Puget Sound specific, place-based learning into K-12 curricula throughout the Puget Sound region. Connect schools with technical assistance, inquiry-based learning opportunities, and non-formal education resources.											
292	14	Contin	D	3	3.4	3.4	Implement locally-based student service projects that are connected to broader local and regional ecosystem recovery efforts. Link schools to local organizations that provide structured opportunities for public engagement in recovery efforts											
293	14	Contin	D	3	3.5	3.5	Foster a long-term sense of place among Puget Sound residents. Encourage direct personal contact with Puget Sound's aquatic and terrestrial resources through recreation, learning opportunities, and public access.											
294	14	Contin	D	3	3.6	3.6	Develop and enhance coordinated regional efforts to link residents with public engagement and stewardship programs, including citizen-science, education, restoration volunteerism, and related efforts.											
295	14	Contin	D	3	3.7	3.7	Build awareness and understanding of stewardship-building efforts and strategies among elected officials, executive staff, funders, resource managers, and others with resource allocation ability. Emphasize program needs, drivers, objective											
296	14	Contin	D	4	4	4	Build Social and Institutional Infrastructure that fosters beneficial practices and behaviors and removes institutional barriers to those practices.											

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297	14	Conti	D	4	4.01	Apply appropriate social science relative to Puget Sound recovery to identify targeted actions, audiences, opportunities, strategies, and evaluation metrics.										
298	14	Conti	D	4	4.02	Build capacity among partner organizations so they can promote beneficial practices and behaviors and build issue awareness and understanding. Provide technical support and training to partners to support program effectiveness, evaluation										
299	14	Conti	D	4	4.03	Develop and maintain communications infrastructure (e.g., MyPugetSound.net) to effectively collaborate, coordinate, and share information among partner groups.										
300	14	Conti	D	4	4.04	Develop and maintain the organizational capacity and infrastructure for a sustained regional public communication effort to Puget Sound residents.										
301	14	Conti	D	4	4.05	Provide easy-to-access public information conduits to connect individuals to local activities and resources related to education, volunteerism, and stewardship.										
302	14	Conti	D	4	4.06	Enhance and sustain strategic networks to increase collaboration, build long-term sustainability, align efforts, improve messaging, and share results of ongoing work: including ECO-Net, STORM, tribes, municipalities not covered by stormwat										
303	14	Conti	D	4	4.07	Evaluate and align social drivers, remove barriers (e.g., physical, economic, regulatory, enforcement, policy), provide incentives, and provide technical guidance to enable residents and communities to adopt beneficial practices and behavior:										
304	14	Conti	D	4	4.08	Foster the development of a distributed network of partners. Promote the development of bonds among priority groups. Advance the development of strategic bridges between key groups.										
305	14	Conti	D	4	4.09	Encourage and enhance the social capital necessary for the diffusion of beneficial practices and long-term place-based cultural development (communities, associations, watershed councils, individuals, households, and third places, for exam										
306	14	Conti	D	4	4.10	Enable partner organizations to provide opportunities for facilitated action on the part of residents and communities (e.g. community projects, incentive programs, one-on-one technical assistance, and volunteer experiences). Increase resou										
307	14	Conti	D	5	5	Implement a Coordinated, Integrated Ecosystem Monitoring Program										