

***Wild Salmon Policy Implementation
Report on WORK PLAN 2009-2010***

Summary of WSP Resources by Sector, 2009-2010

Sector	PLANNED		UTILIZED	
	O&M (\$K)	FTEs	O&M (\$K)	FTEs
Science	\$244.5	2		
OHEB	\$28.0	0.25		
FAM	\$200.0	3		
Policy	\$55.0	1.75		1.0
TOTAL	\$527.5	7		

WSP Strategy 1 - Standardized Monitoring of Wild Salmon Status, Work Plan 2009-2010

Action Steps	Progress Made prior to April 1, 2009	Planned Work in 2009/10	O&M Budgeted in 2009/10	O&M Utilized in 2009/10	Progress made in 2009/10	Responsibility
1.1 Identify Conservation Units	<ul style="list-style-type: none"> Completed methodology paper on CUs and conducted PSARC review Completed and consulted on final list of CUs for BC 	Complete CU methodology paper for Yukon Territory and the Mackenzie River; consult with Yukon Salmon Committee (summer). Publish as a technical report by the end of the year.	\$ 2.5 K		The list of Yukon CU's has been completed.	Science (Holtby)
		Identify a process for revising CU's and work with SACC to identify accountabilities by the end of the year.	\$ 0 K			Science (Holtby)
1.2 Develop criteria to assess CUs and identify benchmarks to represent biological status	<ul style="list-style-type: none"> Draft paper on methodology to assess status and identify benchmarks for CUs released Oct 2008 PSARC review on methodology to assess status and benchmarks in Jan 09 	Revise benchmarks (BM) paper and the model to evaluate benchmarks (Jul 09).	\$ 4 K		Completed and released two discussion documents on benchmarks in August: Holt, C., Cass, A., Holtby, B., and Riddell, B. 2009. <i>Indicators of Status and Benchmarks for Conservation Units in Canada's Wild Salmon Policy</i> , and Holt, C. 2009. <i>Evaluation of Benchmarks for Conservation Units in Canada's Wild Salmon Policy: Technical Documentation</i> .	Science (Holt)
		Provide expert advice, tools and methodologies to identify metrics and benchmarks for regional CUs: <ul style="list-style-type: none"> Strategy 1 workshop for the regional Science WSP Implementation Team (Science, area and sectoral reps); 	\$ 10 K		Regional workshop for DFO staff on Strategy 1 completed. Science staff have followed up by engaging area staff in the development of benchmarks; significant progress has been made with Fraser sockeye.	Science (Lauzier, Holt, Folkes, Schubert, Tompkins)
		Consult with Area staff;	\$ 10 K			
		Complete CU status scan using IUCN criteria	\$ 25 K			
		Develop software to consider benchmarks and risk tolerances in a multi-dimensional framework to assess status of each CU (Jan 2010).	\$ 10 K		Software developed and ready for testing.	Science (Holt)
		Develop and evaluate metrics and benchmarks on distribution within CUs and publish as PSARC document (Spring 2010).	\$ 10 K		Technical report on metrics distribution completed: Peacock, S., and Holt, C. 2010. <i>A review of metrics of distribution with application to Conservation Units under Canada's Wild Salmon Policy</i> .	Science (Holt)
		Coordination of Science WSP implementation.			Strategy 1 Oversight group formed.	Science
		Area staff to identify and consult stakeholders on benchmarks in 2009/10.			Starting to identify benchmarks for a few pilot conservation units (Barkley Sound and the Fraser River).	Area Stock Assessment

Action Steps	Progress Made prior to April 1, 2009	Planned Work in 2009/10	O&M Budgeted in 2009/10	O&M Utilized in 2009/10	Progress made in 2009/10	Responsibility
1.3 Monitor and assess status of CUs	Draft assessment frameworks (AFs) have been completed for regional coho, Fraser sockeye and North Coast populations.	To be developed in 3 tiers: 1) an overview document that details the components of an AF; 2) regional AF's for each species; and 3) project level operational plans. Tier 1 will be completed this year; outlines will be completed for Tier 2 and area staff will be engaged.	\$ 2 K			Science (Holtby) Areas Stock Assessment
		Complete the Fraser sockeye framework and decision support tool.	\$ 5 K			Science (Cass)
TOTAL			\$78.5 K			

WSP Strategy 2 - The Assessment of Habitat Status, Work Plan 2009-2010

Action Steps	Progress Made prior to April 1, 2009	Planned Work in 2009/10	O&M Budgeted in 2009/10	O&M Utilized in 2009/10	Progress made in 2009/10	Responsibility
2.1 Document habitat characteristics	Developed habitat characteristic templates and tested on several priority CUs	<ul style="list-style-type: none"> Complete habitat status reports in 3 priority CUs (Barkley, Skeena, one other area) Provide support to Barkley Sound pilot 	To be confirmed		<ul style="list-style-type: none"> Habitat templates completed for Barkley Sound, Harrison River, and Cowichan River. Instream flow requirement analyses completed for Englishman River. 	OHEB
2.2 Select indicators and benchmarks	<ul style="list-style-type: none"> Completed identification of habitat indicators for streams, lakes and estuaries and their metrics and benchmarks. Peer review workshop on habitat indicators paper in Jan 2009. Summary report on Jan 2009 workshop completed. 	OHEB and Science co-leading revision of methodology paper to determine habitat indicators.	\$20 K		Habitat Indicators Report: <i>Canada's Policy for Conservation of Wild Pacific Salmon: Stream, Lake, and Estuarine Habitat Indicators</i> Canadian Manuscript Report of Fisheries and Aquatic Sciences 2859 by H.C. Stalberg, R.B. Lauzier, E.A. MacIsaac, M. Porter and C. Murray completed.	OHEB
2.3 Implement Monitoring		Science will participate with OHEB in the development of the Strategy 2 framework, with a focus on its interconnections to Strategy 3. This may include further refinements/revisions to the methodology paper.				Science (Lauzier, 0.5 FTE)
		Develop component on partnership support for habitat monitoring under broad WSP Partnership Strategy				OHEB
2.4 Develop integrated habitat data systems	WSP web mapping application developed and GIS information on CUs uploaded (http://www.canbcdw.pac.dfo-mpo.gc.ca/ows/imf.jsp?site=mapster).	Launch and implement web-mapping application; upload Yukon CUs.	\$3 K		GIS information on salmon CUs uploaded to the web-mapping application.	OHEB
		Explore potential partnerships with other information sharing systems (i.e. Hectares BC, Aquatic Information Partnerships BC)				
TOTAL			\$23 K			

WSP Strategy 3 - Inclusion of Ecosystem Values and Monitoring, Work Plan 2009-2010

Action Steps	Progress Made prior to April 1, 2009	Planned Work in 2009/10	O&M Budgeted in 2009/10	O&M Utilized in 2009/10	Progress made in 2009/10	Responsibility
3.1 Identify indicators to monitor status of freshwater ecosystems	<ul style="list-style-type: none"> o Draft tables of ecosystem objectives and indicators completed o Ongoing input to defining Strategy 2 and 3 interdependencies. o Ongoing consultation o Ecosystem objectives and indicators for the Barkley Pilot developed. o "Proof of concept" trials completed in fiscal 08-09 at a few riparian "stations". o Instrumentation and methods generated informative and affordable results on status of predator-carnivore complex. o Planning and advisory support provided to Barkley Sound Pilot Working Group. o Support for outreach with external groups (AMB, Parks, MOE, LRT, BCCF) provided. 	Develop discussion paper on ecosystem objectives, indicators and management options, with CU case studies, for PSARC review in Sept 2009: <ul style="list-style-type: none"> • Contract support; • Peer review workshop; 	\$20 K \$10 K \$10 K		<ul style="list-style-type: none"> o Conceptual approach reviewed and approved by Operations Committee, October 2009. o Table of contents for report well developed, existing lake survey data assembly nearing completion. o Multiple review sessions with S. Coast StAD staff suggest data review and standardization required to clean up "gaps", errors before analysis of survival series EBM indicators. 	Science
		Provision of expert scientific advice regarding the development and implementation of Strategy 3	\$0 K	\$0 K	o	Science
		Complete report on multi-trophic level indicator assessment of impact of Henderson L. fertilization on sockeye and carrying capacity of Barkley Sound lakes for sockeye CUs.	\$10 K		o	Science (Hyatt-Rankin)
		Develop semi-automated system to profile status of salmon predator-scavenger complex in riparian ecosystem ("in-kind" support expected from Parks Canada)	\$16 K		o	Science (Shardlow, Hyatt)
		Assemble Ecosystem Overview Assessment Report (EAOR) as per National EBM standard on status and trends of ecosystem attributes of Barkley CU-OEU combinations), including the assembly, review and standardization of CU stock assessment data.	\$15 K		o	Science, FAM, AMB, Parks, Hyatt, Dobson
		Engage First Nations Fisheries Council to develop a protocol for FN engagement in the development of ecosystem values.	\$10 K		o	Science (Saunders, Hyatt)

Action Steps	Progress Made prior to April 1, 2009	Planned Work in 2009/10	O&M Budgeted in 2009/10	O&M Utilized in 2009/10	Progress made in 2009/10	Responsibility
3.2 Integrate climate & ocean information into annual salmon management processes	<ul style="list-style-type: none"> Expansion of salmon information in State of Oceans Report (in 2009 includes papers on coho and chinook as well as sockeye). Additional application of oceanographic and climate indicator information to forecast salmon survival and abundance. Publication of: Irvine, J. and Crawford, B.[Editors] 2008: State of physical, biological, and selected fishery resources of Pacific Canadian marine ecosystems. CSAS <i>Research Doc.</i> 2008/013. 	Continued integration of salmon information into annual FOWG reports including additional application of oceanographic and climate indicator information.	\$10 K		○	Science (Irvine)
		Assembly and analyses of physical and biological data to explore their relationships with wild salmon productivity.	\$10 K		○	
		PSARC sanctioned workshop (pre-FOWG) to discuss salmon outlooks, forecasts and survival.	\$10 K		PSARC sanctioned workshop was held at PBS on 16 February 2010 to discuss how to improve ways of incorporating oceanographic and climatic information into predictions of salmon survival and abundance. Thirteen presentations with time for discussion covered a wide range of topics including statistical issues such as autocorrelation, a review of forecasting approaches in the Pacific region, and ways of better incorporating ocean indicators in salmon forecasts. The workshop was available to regional DFO staff as a web conference (i.e. real-time PowerPoint viewing with audio). Selected presentation summaries will be included in the upcoming State of Oceans Report, to be posted with documents from previous years at: http://www.pac.dfo-mpo.gc.ca/science/psarc-ceesp/osrs/index-eng.htm .	
TOTAL			\$121K			

WSP Strategy 4 - Integrated Strategic Planning, Work Plan 2009-2010

Action Steps	Progress Made prior to April 1, 2009	Planned Work in 2009/10	O&M Budgeted in 2009/10	O&M Utilized in 2009/10	Progress made in 2009/10	Responsibility
4.1. Implement an interim process for management of priority CUs	<ul style="list-style-type: none"> Completed discussion paper on strategic planning guidelines Completed Barkley Sound discussion paper: <i>Sustainable Management of Wild Salmon in Barkley Sound and Alberni Inlet: Challenges, Resources, and Priorities</i> Conducted Barkley Sound planning workshop Continued pilot for planning for Fraser sockeye CUs (Fraser Sockeye Spawning Initiative) Initiated testing of template on Barkley Sound sockeye 	Continue work on strategic planning guidelines	\$0 K			FAM
		Continue work on strategic plan for Fraser sockeye CUs:				
		– PSARC paper for CU benchmarks				Science
		– Develop co-management framework in conjunction with IFRAWG (Fall wkshop)	\$60 K			FAM
		Develop Barkley S. pilot project until end of 2009/10:				FAM
		– Overview of economic value of salmon to Barkley and social economic analysis of this area	\$60 K			
		– Develop production planning model for chinook and possibly sockeye (partner with Living Rivers)	\$25 K			
		– Structured decision making process for Barkley Sound Production planning	\$0 K			
		– PSARC paper for Barkley sockeye CU benchmarks	\$10 K			Science
4.2 Design & implement integrated strategic planning for salmon conservation	<ul style="list-style-type: none"> Completed discussion paper on identifying planning units (Sandy Fraser) Internal workshop on March 10, 2009 to discuss planning units; summary report done 	Develop overall approach to implement strategic planning (planning units, priority plans)	\$15 K			FAM
		Present planning approach to Ops Cttee in June 2009	\$0 K			FAM
TOTAL			\$175 K			

WSP Strategy 5 – Annual Program Delivery, Work Plan 2009-2010

External Stakeholder Engagement	<ul style="list-style-type: none"> WSP Forum in March 2008 Ongoing bilateral meetings and web consultations 	Consider other consultation/ engagement activities, e.g., webcasts or teleconferences	\$ 0 K			Consultation
		WSP annual forum (FN and Multi-interest)	\$20 K	\$ 0 K	Cancelled	Policy
		Bilateral meetings and web-based consultations	\$10K			Consultation
Aboriginal Traditional Ecological Knowledge	New to work plan.	Assess current work on consideration of ATEK into resource management processes	\$ 0 K	\$ 0 K	Analysis of ATEK options was completed by Policy.	Policy / TAPD
		Discuss options for consideration of ATEK under WSP with First Nations	\$ 0 K	\$ 0 K	Analysis of ATEK to develop options led to the conclusion that First Nations had already provided insight about the inclusion of ATEK through past consultation input. A draft targeted approach to how we would like to include ATK should be developed before seeking additional First Nation input	Policy / TAPD
External Communications	<ul style="list-style-type: none"> Ongoing email/web updates Fact sheet released, Oct 2008 WSP display produced, 2008 Revamped WSP website 	Ongoing quarterly email/ web updates	\$ 0 K	\$ 0 K	Website updated quarterly with new fact sheet	Communications
		Conversion of WSP extranet site to internet	\$ 0 K	\$ 0 K	WSP website transferred.	Communications
Partnership Strategy	<ul style="list-style-type: none"> Participation in Fraser Salmon & Watersheds Program logic model with partners 	Linkages to FSWP	\$ 0 K	\$ 0 K	WSP implementation was identified as a key priority to be considered during the project selection process for FSWP in 2009-10. WSP working group members from Policy and FAM involved in the FSWP project selection process. The immediate outcome areas of the FSWP program support capacity building for the implementation of WSP.	Policy
		Continue to participate in development of FSWP logic model with partners (PSF / FBC)	\$ 0 K	\$ 0 K	The PSF/FBC did not do further work to develop the FSWP logic model this year.	Policy
		Identify elements where partners' engagement is required and develop strategy	\$ 0 K	\$ 0 K	No progress	Policy
		Develop and formalize partnerships on identified elements	\$ 0 K	\$ 0 K	No progress	Policy

		Engage BC through PCFAM/ PFAC forum	\$ 0 K	\$ 0 K	WSP presentation made to PCFAM / PFAC.	Policy
External Governance Structures for Planning	New to work plan.	Developing governance principles within Barkley pilot and applying lessons learned to other areas			Contract with Nuuchahnulth Tribal Council (NTC) to administer the Barkley Sound pilot.	FAM
WSP Coordination	Coordination of regional WSP implementation; chairing of WSP implementation team	Ongoing coordination of regional WSP implementation, including chairing of WSP implementation team and work planning.	\$ 0 K	\$ 0 K	<ul style="list-style-type: none"> Regular meetings held. Work plan developed. 	Policy
		Develop plan to transition WSP lead from Policy to implementation in Areas; clarify internal roles and responsibilities			Not completed	Policy
Internal Communications	All staff meeting in March 2008	Continue to develop and promote use of website as resource for staff	\$ 0 K	\$ 0 K	Continued to develop and promote use of website as resource for staff	Communications
Info Management and Data Sharing	Web mapping application created.	Launch web mapping application			Web mapping application launched.	OHEB
TOTAL			\$30 K			

WSP Strategy 6 – Performance Review, Work Plan 2009-2010

Action Steps	Progress Made prior to April 1, 2009	Planned Work in 2009/10	O&M Budgeted in 2009/10	O&M Utilized in 2009/10	Progress made in 2009/10	Responsibility
Performance Measurement	<ul style="list-style-type: none">Reporting progress through external communication products; annual departmental and regional planning processes.Annual work planning completed.	Post season reviews and reporting on work plan.	Salary \$	Salary \$	<ul style="list-style-type: none">Reporting progress through external communication products; annual departmental and regional planning processes.2009-2010 work plan developed.2008-2009 work plan reviewed.	Policy
		Develop draft performance objectives.	Salary \$	\$0	No performance objectives developed.	Policy
		Review PFRCC report on WSP implementation.	Salary \$	Salary \$	Report reviewed.	Policy
		Participate in logic model/ performance measurement strategy for Fraser watershed (PSF/ FBC lead).	Salary \$	Salary \$	Policy staff participated in workshop to develop performance measurement strategy.	Policy
TOTAL			Salary \$	Salary \$		