

Recommendation Summary for 2019 – 2021 Biennium for SRRTTF Activities in Ecology Grant Agreement

Several potential options were developed by a subgroup of the Tech Track work group for consideration by the full Tech Track Work Group and the Task Force for the use of the 2019 – 2021 Washington State Legislature-approved funding, that would provide the basis for a grant agreement with Ecology. These options were based on several input factors:

- Available Scopes and Budgets for Projects
- Output From the PCB Workshop
- Available Funding as Provided by the Legislature and related constraints
- Input from the Task Force’s Technical Consultant – LimnoTech
- Consideration of Technical and Non-Technical Task Force Project Needs

Several tasks were identified and then included in various combinations to develop the options. Included were technical tasks commonly identified as important from the breakout sessions at the PCB Workshop, along with non-technical education and outreach activities. The three options that were identified are discussed below, followed by the summary recommendation. Associated budgets for the three options are provided in Attachment 1.

Potential Option A

This option included only technical tasks. Cost estimates were provided by LimnoTech and many of these tasks had wide ranges for cost based on the potential range of scopes. In order to balance the scopes with available budget, generally mid-range estimates were used. As a result, the detailed scopes for each task would have been constrained to fit the available budget. The most significant upfront scope adjustment was made for the 2019 multimedia sampling effort. In early option scoping discussions by the group, it was proposed to conduct synoptic sampling in the Spokane Gage to Nine Mile reach to support a mass balance assessment to confirm groundwater loads identified in the 2018 synoptic survey, but this task was not included in Option A or the other two options. The incremental cost of the add-on synoptic sampling would have required that two other tasks related to Unidentified Sources be, at a minimum, deferred.

Potential Option B

This option replaced Task 4 of the original list of option tasks (one of two tasks related to unidentified sources) and replaced it with an education and outreach related task. Task budgets for two technical tasks were also adjusted, including more focused scopes with respect to sampling river water column and designing and conducting long term monitoring related to fish, water, and sediments and conducting the selected monitoring on a pilot basis.

Potential Option C

This option makes adjustments to Potential Option B by delaying for one year additional source identification work (Task 2) until after data collected in 2019 is gathered and analyzed. The additional funds for available from Task 2 were shifted to Task 5 of the original options task list - developing a more expanded scope for determining how best to design and conduct long term monitoring related to fish, water, and sediments; and conducting the selected monitoring on a more expanded pilot basis.

Recommendation

The three options were discussed by the Tech Track subgroup on two conference calls, resulting in the following recommended statement of work and budget. Please note that that not all the Tasks in Options A, B and C were carried forward in the recommended scope for this initial grant agreement, so the task numbering has been updated to reflect the modifications. Additional discussions with the Tech Track Work Group on the scope of the tasks not included below, and other findings from the Data Synthesis workshop will be scheduled later in 2019, and a proposed amendment with additional tasks will be formulated as a recommendation to the Task Force for future action.

Statement of Work and Deliverables

This Statement of Work (SOW) describes the planned CONTRACTOR activities through June 30, 2021. The Spokane River Regional Toxics Task Force (SRRTTF) is a group of governmental agencies, private industries, environmental organizations who developed a plan to bring the Spokane River into compliance with water quality standards for polychlorinated biphenyls (PCBs). The objective of this statement of work is to identify and remove sources of PCBs in the Spokane River per the Spokane River Regional Toxics Task Force's 2016 Comprehensive Plan. Funding for this work is provided by the State General Fund.

The CONTRACTOR is leveraging funding from this contract with funding from other resources. The tasks will be completed using a combination of funding sources. Therefore if funding for this contract expires but all deliverables are not achieved, the additional funding sources will be used to complete the task and will be reported after completion. The activities funded by ECOLOGY under this contract are described below along with its corresponding budget.

Based on current understandings of scope for each task (Task 1 through Task 6), the budget for each task may need to be revised in the future. Should a scope revision for any task result in the allocated funding for that task not being fully utilized, the surplus funding will be reallocated as appropriate to other tasks. Any reallocation of budget must be mutually agreed upon between the parties.

Task 1: Conduct Multimedia Sample Collection and PCB Analyses in Coordination with EAP 2019 Biofilm Sampling Project

In support of SRRTTF’s Comprehensive Plan Element 6.3, the CONTRACTOR in collaboration with Ecology’s EAP will assure completion of the following:

- Preparation of a Quality Assurance Project Plan (QAPP), that among other things, identifies the locations, frequencies, parameters, other supporting data collection, sample collection methodologies, and analytical methods for river water column samples, sediment samples, and groundwater seep samples. Focus area for this work is the Upriver Dam to Spokane Gage reach of the river
- Execute sampling events as described in the QAPP referenced above in coordination with EAP’s 2019 biofilm sampling event
- Prepare report on results of analyses for each media and comparisons of the findings in each media with respect to how they may relate to each other and the EAP biofilm study results

Deliverables and Due Dates:

Copies of the following deliverables are to be provided to the ECOLOGY Contract Manager.

Deliverable	Due Date
Project status reports in conjunction with progress billings	As progress billing submitted
QAPP for multimedia sample collection, sample analysis, and data analysis	August 15, 2019
Draft report on results of analyses for each media and comparisons of the findings in each media with respect to how they may relate to each other and the EAP biofilm study results	March 31, 2020
Final report on sampling and analysis results	June 30, 2020

Task 2: Additional Contaminated Site Investigation for Purposes of Future Identification and Removal Focusing on Historical Information and Biofilm and Sediment Data

In support of SRRTTF’s Comprehensive Plan Element 5.14¹, the CONTRACTOR will assure completion of the following:

- Define land uses that could have served as a source of PCB and conduct a search of historical land use records or related information to determine locations of potential sources in the vicinity of the Spokane River with a focus on specific areas adjacent to locations where 2018 and 2019 monitoring showed elevated concentrations.
- In combination with land use information, use the EAP/SRRTTF 2018 and 2019 sampling results (water column/biofilm/sediment) to consult with TCP (Comprehensive Plan Element 5.14.1.b) develop a future sampling plan to target key sites identified (Comprehensive Plan Element 5.14.1.c)

Deliverables and Due Dates:

¹ This effort can be considered an extension of data mining activities discussed in Comprehensive Plan Element 5.14.1.a.

Copies of the following deliverables are to be provided to the ECOLOGY Contract Manager.

Deliverable	Due Date
Project status reports in conjunction with progress billings	As progress billing submitted
A report documenting the review of EAP/SRRTTF 2018 and 2019 sampling results in conjunction with the review of historical land use and the identification of sites of interest for targeted sampling	February 28, 2021
Develop a targeted sampling plan based on the findings of the site identification effort	May 31, 2021

Task 3: Education and Outreach

In support of SRRTTF’s efforts to provide public education and outreach on PCB, the CONTRACTOR will assure completion of the following:

- Conduct Spring 2020 education campaign through the Spokane River Forum
- Develop and provide a school education curriculum on PCB
- Hold a “State of the River” meeting in partnership with the Spokane River Forum

Deliverables and Due Dates:

Copies of the following deliverables are to be provided to the ECOLOGY Contract Manager.

Deliverable	Due Date
Project status reports in conjunction with progress billings	As progress billing submitted
A report documenting the content as well as any associated statistics on effectiveness for the Spring Campaign	June 30, 2020
A report documenting the materials developed for the “State of the River” meeting	May 31, 2021
A report documenting the materials produced and any associated statistics on effectiveness of the curriculum	May 31, 2021

Task 4: Design a Long-Term Monitoring/Tracking Program for PCB Concentrations Considering Fish, Water, Sediment, and Biofilm

In support of SRRTTF’s Comprehensive Plan Element 6.1 and 6.3, the CONTRACTOR will assure completion of the following:

- Assess methodologies and media that could be used for monitoring/tracking of concentrations in PCB
- Select the media and develop plan(s) for monitoring/tracking concentrations in PCB

Deliverables and Due Dates:

Copies of the following deliverables are to be provided to the ECOLOGY Contract Manager.

Deliverable	Due Date
Project status reports in conjunction with progress billings	As progress billing submitted
A report documenting the results of the assessment of methodologies and media for potential long-term monitoring/tracking of PCB concentrations	April 30, 2020
Prepare a QAPP for conducting long-term monitoring/tracking of PCB concentrations	June 30, 2020

Task 5: LimnoTech Technical Support

LimnoTech is the SRRTTF’s contractor for technical advice and as such participates in SRRTTF and Technical Track Work Group meetings. The SRRTTF requires LimnoTech’s technical expertise to make informed decisions. In addition to directly managing technical projects such as sampling and data analysis, LimnoTech may be called upon to manage other projects that would benefit from their overall knowledge of the PCB data and information that the SRRTTF’s previous work has generated. This task will help pay for analysis and information requests that arise which are outside the scope of other tasks in this contract.

- Draft and final technical memorandums will be generated as requested by the SRRTTF. The memorandums will be provided to the Contract Manager 30 days after they are completed
- Project management as needed

Deliverables and Due Dates:

Copies of the following deliverables are to be provided to the ECOLOGY Contract Manager.

Deliverable	Due Date
Project status reports in conjunction with progress billings	As progress billing submitted
Draft and final technical memorandums generated	30 days after issuance

Task 6: ACE Administration

The CONTRACTOR will incur administrative costs as a result of contract requirements and contracting with third parties to carry out requirements of previously described tasks. For example, for the previously described tasks, third party preparation of requests for proposals for sampling and laboratory services will be incurred. In addition, expenses for such contract requirements for insurance will be incurred. The CONTRACTOR may seek reimbursement for these administrative expenses.

- The CONTRACTOR is responsible for entering all surface, flow, and groundwater quality data generated as a result of this contract into ECOLOGY’s Environmental Information Management System.
- Facilitation services for all SRRTTF and other Work Group meetings may be funded by this contract and other sources of funding.

Deliverables and Due Dates:

Recommendation					
Basis - June Task Force Direction					
Task	Description	Legislative Funds		Other TF Funding	
		FY 1	FY 2	FY 1	FY 2
	Provide Support for Expanding the Scope of Ecology's Environmental Assessment Program's (EAP's) 2019 Biofilm Assessment for the Spokane River	\$0	\$0	\$17,000	
1	Conduct Multimedia Sample Collection and PCB Analyses in Coordination with EAP 2019 Biofilm Sampling Project	\$55,000	\$0	\$8,000	
	Green Chemistry Advancement	\$0	\$0	\$25,000	
2	Additional Contaminated Site Investigation for Purposes of Future Identification and Removal Focusing on Historical Information and Biofilm and Sediment Data	\$0	\$20,000		
3	Education and Outreach Initiatives	\$25,000	\$25,000		
4	Design and Initiate a Long-Term Monitoring/Tracking Program for PCB Concentrations Considering Fish, Water, Sediment, and Biofilm	\$48,000			
5	LimnoTech Technical Support	\$20,000	\$40,000	\$20,000	
6	ACE Administration	\$42,000	\$84,000	\$42,000	
	Total Cost	\$190,000	\$169,000	\$112,000	\$0
	Subtotal		\$359,000	\$112,000	
Uncommitted TF Funds Remaining ~ \$28, 000 ACE funding and \$141,000 State Legislature funding					

Attachment 1

Budget Summaries for Options A, B and C

Potential Option A					
Basis - June Task Force Direction					
Task	Description	Legislative Funds		Other TF Funding	
		FY 1	FY 2	FY 1	FY 2
	Provide Support for Expanding the Scope of Ecology's Environmental Assessment Program's (EAP's) 2019 Biofilm Assessment for the Spokane River	\$0	\$0	\$17,000	
1	Conduct Multimedia Sample Collection and PCB Analyses in Coordination with EAP 2019 Biofilm Sampling Project	\$55,000	\$0	\$8,000	
	Green Chemistry Advancement	\$0	\$0	\$25,000	
2	Additional Contaminated Site Investigation for Purposes of Future Identification and Removal Focusing on Historical Information and Biofilm and Sediment Data	\$15,000	\$36,000		
3	Water Column Sampling at Higher (non-low flow) Flow Conditions	\$78,000	\$0		
4	Focus on Identification and Removal of Unknown Sources	\$10,000	\$50,000		
5	Design and Initiate a Long-Term Monitoring/Tracking Program for PCB Concentrations Considering Fish, Water, Sediment, and Biofilm	\$30,000	\$40,000		
6	LimnoTech Technical Support	\$20,000	\$40,000	\$20,000	
7	ACE Administration	\$42,000	\$84,000	\$42,000	
	Total Cost	\$250,000	\$250,000	\$112,000	\$0
Uncommitted TF Funds Remaining ~ \$28, 000					

Potential Option B					
Basis - June Task Force Direction					
Task	Description	Legislative Funds		Other TF Funding	
		FY 1	FY 2	FY 1	FY 2
	Provide Support for Expanding the Scope of Ecology's Environmental Assessment Program's (EAP's) 2019 Biofilm Assessment for the Spokane River	\$0	\$0	\$17,000	
1	Conduct Multimedia Sample Collection and PCB Analyses in Coordination with EAP 2019 Biofilm Sampling Project	\$55,000	\$0	\$8,000	
	Green Chemistry Advancement	\$0	\$0	\$25,000	
2	Additional Contaminated Site Investigation for Purposes of Future Identification and Removal Focusing on Historical Information and Biofilm and Sediment Data	\$15,000	\$36,000		
3	Water Column Sampling at Higher (non-low flow) Flow Conditions	\$60,000	\$0		
4	Education and Outreach Initiatives	\$25,000	\$25,000		
5	Design and Initiate a Long-Term Monitoring/Tracking Program for PCB Concentrations Considering Fish, Water, Sediment, and Biofilm	\$33,000	\$65,000		
6	LimnoTech Technical Support	\$20,000	\$40,000	\$20,000	
7	ACE Administration	\$42,000	\$84,000	\$42,000	
	Total Cost	\$250,000	\$250,000	\$112,000	\$0
Uncommitted TF Funds Remaining ~ \$28, 000					

Potential Option C					
Basis - June Task Force Direction					
Task	Description	Legislative Funds		Other TF Funding	
		FY 1	FY 2	FY 1	FY 2
	Provide Support for Expanding the Scope of Ecology's Environmental Assessment Program's (EAP's) 2019 Biofilm Assessment for the Spokane River	\$0	\$0	\$17,000	
1	Conduct Multimedia Sample Collection and PCB Analyses in Coordination with EAP 2019 Biofilm Sampling Project	\$55,000	\$0	\$8,000	
	Green Chemistry Advancement	\$0	\$0	\$25,000	
2	Additional Contaminated Site Investigation for Purposes of Future Identification and Removal Focusing on Historical Information and Biofilm and Sediment Data	\$0	\$20,000		
3	Water Column Sampling at Higher (non-low flow) Flow Conditions	\$60,000	\$0		
4	Education and Outreach Initiatives	\$25,000	\$25,000		
5	Design and Initiate a Long-Term Monitoring/Tracking Program for PCB Concentrations Considering Fish, Water, Sediment, and Biofilm	\$48,000	\$81,000		
6	LimnoTech Technical Support	\$20,000	\$40,000	\$20,000	
7	ACE Administration	\$42,000	\$84,000	\$42,000	
	Total Cost	\$250,000	\$250,000	\$112,000	\$0
Uncommitted TF Funds Remaining ~ \$28, 000					