

## Options Overview

Three potential options were developed for consideration for the use of the Legislative funding that has been provided based on several input factors. **Other sources of funding will need to be identified and applied to tasks not identified here.** The factors included are:

- 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

A total of ten tasks were identified. Two tasks are currently being funded by the Task Force – funding for analysis of additional biofilm samples collected by Ecology (\$17,000) and funding for an iPCB Workshop (\$25,000). Of the remaining, seven are technical tasks commonly identified as areas of importance from the breakout sessions at the PCB Workshop, the combination of which could fit within the budget constraints of the legislative funds that have been provided. The attempt was made to cover as many of the identified technical areas of importance as possible and with as wide a scope as possible for each, but at the same time attempting to constrain scopes to fit the available budget. The remaining task was non-technical and in the category of education and outreach.

### Potential Option A

This option includes 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. As discussed above, in order to balance the scopes with available budget, generally mid-range estimates were used. As a result, the detailed scopes for each task will need to be constrained to fit the available budget. The most significant upfront scope adjustment was made for the 2019 multimedia sampling effort. It was proposed to conduct synoptic sampling in the Spokane Gage to Nine Mile reach. 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 replaces one of two tasks related to unidentified sources and replaces it with an education and outreach related task. This replacement resulted in task budget allocation adjustments in two other technical tasks. One adjustment will require a more focused scope with respect to sampling river water column and the other a more robust 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 pilot basis.

### Potential Option C

This option makes adjustments to Potential Option B by delaying for one year additional source identification work until after data collected in 2019 is gathered and analyzed. The funds for this task are shifted to 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.

<b>Potential Option A</b>					
<b>Basis - June Task Force Direction</b>					
		<b>Legislative Funds</b>		<b>Other TF Funding</b>	
<b>Task</b>	<b>Description</b>	<b>FY 1</b>	<b>FY 2</b>	<b>FY 1</b>	<b>FY 2</b>
	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	
	<b>Total Cost</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$112,000</b>	<b>\$0</b>

Uncommitted TF Funds Remaining ~ \$28, 000
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<b>Potential Option B</b>					
<b>Basis - June Task Force Direction</b>					
		<b>Legislative Funds</b>		<b>Other TF Funding</b>	
<b>Task</b>	<b>Description</b>	<b>FY 1</b>	<b>FY 2</b>	<b>FY 1</b>	<b>FY 2</b>
	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	
	<b>Total Cost</b>	\$250,000	\$250,000	\$112,000	\$0

Uncommitted TF Funds Remaining ~ \$28, 000
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<b>Potential Option C</b>					
<b>Basis - June Task Force Direction</b>					
		<b>Legislative Funds</b>		<b>Other TF Funding</b>	
<b>Task</b>	<b>Description</b>	<b>FY 1</b>	<b>FY 2</b>	<b>FY 1</b>	<b>FY 2</b>
	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	
	<b>Total Cost</b>	\$250,000	\$250,000	\$112,000	\$0

Uncommitted TF Funds Remaining ~ \$28, 000
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**Potential Option A**  
**Draft Appendix A**  
**Statement of Work and Deliverables**

**Introduction**

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 7), 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 5.14, 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 5.14, 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 the Upriver Dam to Spokane Gage reach of the river
- In combination with land use information, use the EAP/SRRTTF 2018 and 2019 sampling results (water column/biofilm/sediment) to develop a biofilm/sediment sampling plan to target key sites identified
- Implement targeted biofilm/sediment sampling plan and interpret 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
A report documenting land use types identified as potentially being a source of PCB and the results of historical and use records	March 31, 2020
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	March 31, 2020
Develop and implement a targeted biofilm/sediment sampling event based on the findings of the site identification effort	September 30, 2020
Draft report on results and interpretation of targeted biofilm/sediment sampling event	March 31, 2021

**Task 3: Water Column Sampling at Higher (non-low flow) Flow Conditions**

In support of SRRTTF’s Comprehensive Plan Element 5.14, the CONTRACTOR will assure completion of the following:

- Develop a sampling and analysis plan (QAPP Addendum) to address the potential of source contribution during non-low flow conditions and implement the plan over a single river reach for a single high flow season
- Interpret the first season results to determine if any new unknown sources are identified

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
Prepare a QAPP Addendum for non-low flow sampling and analysis including targeted river reach sampling locations (first season)	September 30, 2019
A report documenting the results of non-low flow first season results and the interpretation of the results of the targeted sampling events	May 31, 2020

**Task 4: Focus on Identification and Removal of Unknown Sources**

In support of SRRTTF’s Comprehensive Plan Element 5.14, the CONTRACTOR will assure completion of the following:

- Based on data collected through the 2019 sampling events, identify candidate reaches/areas for consideration of upland investigations
- Determine methodologies for conducting potential upland investigations
- Develop sampling and analysis plans for potential upland investigations

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 candidate reaches/site consideration for upland investigation analysis	April 30, 2020
A report documenting the methodologies that could be utilized for conducting potential upland investigations	October 31, 2020
Prepare a QAPP for conducting potential upland investigations	November 30, 2020



**Task 5: Design and Initiate 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
- Implement a pilot sustainable long-term monitoring/tracking plan(s)

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
A report documenting the results obtained from the pilot long-term monitoring/tracking program	June 30, 2021

**Task 6: 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 7: 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:**

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
EIM data entry verification	May 31, 2021

**Budget:**

Based upon current understanding of the statement of work for each task (Tasks 1 through 7), 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 funding will be reallocated as appropriate to other Tasks. Any reallocation of budget must be agreed upon between the parties.

The CONTRACTOR is leveraging funding from this contract with funding from other sources. 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.

<b>Task</b>	<b>Description</b>	<b>Fiscal Year 2020</b>	<b>Fiscal Year 2021</b>	<b>Total Contract Funding Amount</b>
Task 1	Conduct Multimedia Sample Collection and PCB Analyses in Coordination with EAP 2019 Biofilm Sampling Project	\$55,000	\$0	\$55,000
Task 2	Additional Contaminated Site Investigation Focusing on Historical Information and Biofilm and Sediment Data	\$15,000	\$36,000	\$51,000
Task 3	Water Column Sampling at Higher (non-low flow) Flow Conditions	\$78,000	\$0	\$78,000
Task 4	Focus on Identification and Removal of Unknown Sources	\$10,000	\$50,000	\$60,000
Task 5	Design and Initiate a Long-Term Monitoring/Tracking Program for PCB Concentrations Considering Fish, Water, Sediment, and Biofilm	\$30,000	\$40,000	\$70,000
Task 6	LimnoTech Technical Support	\$20,000	\$40,000	\$60,000
Task 7	ACE Administration	\$42,000	\$84,000	\$126,000
	<b>Total Project Cost</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$500,000</b>

**Potential Option B**  
**Draft Appendix A**  
**Statement of Work and Deliverables**

**Introduction**

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.

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**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 5.14, 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:

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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 5.14, 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 the Upriver Dam to Spokane Gage reach of the river
- In combination with land use information, use the EAP/SRRTTF 2018 and 2019 sampling results (water column/biofilm/sediment) to develop a biofilm/sediment sampling plan to target key sites identified
- Implement targeted biofilm/sediment sampling plan and interpret results

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Deliverable	Due Date
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A report documenting land use types identified as potentially being a source of PCB and the results of historical and use records	March 31, 2020
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	March 31, 2020
Develop and implement a targeted biofilm/sediment sampling event based on the findings of the site identification effort	September 30, 2020
Draft report on results and interpretation of targeted biofilm/sediment sampling event	March 31, 2021

**Task 3: Water Column Sampling at Higher (non-low flow) Flow Conditions**

In support of SRRTTF’s Comprehensive Plan Element 5.14, the CONTRACTOR will assure completion of the following:

- Develop a sampling and analysis plan (QAPP Addendum) to address the potential of source contribution during non-low flow conditions and implement the plan over a single river reach for a single high flow season
- Interpret the first season results to determine if any new unknown sources are identified

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
Prepare a QAPP Addendum for non-low flow sampling and analysis including targeted river reach sampling locations (first season)	September 30, 2019
A report documenting the results of non-low flow first season results and the interpretation of the results of the targeted sampling events	May 31, 2020

**Task 4: 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 5: Design and Initiate 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
- Implement a pilot sustainable long-term monitoring/tracking plan(s)

Deliverables and Due Dates:

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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
A report documenting the results obtained from the pilot long-term monitoring/tracking program	June 30, 2021

**Task 6: LimnoTech Technical Support**

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**Potential Option C**  
**Draft Appendix A**  
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- In combination with land use information, use the EAP/SRRTTF 2018 and 2019 sampling results (water column/biofilm/sediment) to develop a biofilm/sediment sampling plan to target key sites identified

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 land use types identified as potentially being a source of PCB and the results of historical and use records	October 31, 2020
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 biofilm/sediment sampling plan based on the findings of the site identification effort	May 31, 2021

**Task 3:** Water Column Sampling at Higher (non-low flow) Flow Conditions

In support of SRRTTF’s Comprehensive Plan Element 5.14, the CONTRACTOR will assure completion of the following:

- Develop a sampling and analysis plan (QAPP Addendum) to address the potential of source contribution during non-low flow conditions and implement the plan over a single river reach for a single high flow season
- Interpret the first season results to determine if any new unknown sources are identified

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
Prepare a QAPP Addendum for non-low flow sampling and analysis including targeted river reach sampling locations (first season)	September 30, 2019
A report documenting the results of non-low flow first season results and the interpretation of the results of the targeted sampling events	May 31, 2020

**Task 4: 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 5: Design and Initiate 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
- Implement a pilot sustainable long-term monitoring/tracking plan(s)

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
A report documenting the results obtained from the pilot long-term monitoring/tracking program	June 30, 2021

**Task 6: 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 7: 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:

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
EIM data entry verification	June 30, 2021

**Budget:**

Based upon current understanding of the statement of work for each task (Task 1 through Task 7), 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 funding will be reallocated as appropriate to other Tasks. Any reallocation of budget must be agreed upon between the parties.

The CONTRACTOR is leveraging funding from this contract with funding from other sources. 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.

<b>Task</b>	<b>Description</b>	<b>Fiscal Year 2020</b>	<b>Fiscal Year 2021</b>	<b>Total Contract Funding Amount</b>
Task 1	Conduct Multimedia Sample Collection and PCB Analyses in Coordination with EAP 2019 Biofilm Sampling Project	\$55,000	\$0	\$55,000
Task 2	Additional Contaminated Site Investigation for Purposes of Future Identification and Removal Focusing on Historical Information and Biofilm and Sediment Data	\$0	\$20,000	\$20,000
Task 3	Water Column Sampling at Higher (non-low flow) Flow Conditions	\$60,000	\$0	\$60,000
Task 4	Education and Outreach	\$25,000	\$25,000	\$50,000
Task 5	Design and Initiate a Long-Term Monitoring/Tracking Program for PCB Concentrations Considering Fish, Water, Sediment, and Biofilm	\$48,000	\$81,000	\$129,000
Task 6	LimnoTech Technical Support	\$20,000	\$40,000	\$60,000
Task 7	ACE Administration	\$42,000	\$84,000	\$126,000
	<b>Total Project Cost</b>	<b>\$250,000</b>	<b>\$250,000</b>	<b>\$500,000</b>