

2018-19 Work Plan Template

All fields with an * are mandatory

Project Description Summary			Co-Chair Decision (March 8, 2018)
Date *	Project/Work Plan Identifier (if applicable)	Program Type and Strategic Alignment *	<p>* Decision Pool A Workplan approved.</p> <p>* Approved at \$494,450</p> <p>* Activities to be captured under the Oil Sands Monitoring Program Community Based Monitoring Initiatives</p> <p>* It is a requirement of funding that key members of the project team participate in a Community Based Monitoring Task Group to be informed by the Oil Sands Monitoring Secretariat. The Task Group will be coordinated by Gleb Raygorodetsky (AEP) and Krista Tremblett and will identify the options for managing and assessing CBM under the Oil Sands Monitoring Program. The Team is to recommend to the OSM Program Co-Chairs and Science-Co-Leads the preferred path forward. A preferred option is requested by May 31, 2018</p> <p>* This project should consider linkages to the Focus and Long Term Monitoring fish monitoring programs currently underway in OSM</p> <p>*Funding expectations: As a minimum, an annual progress report for this project is required by February 28, 2019. All publications or products resulting from this work requires acknowledgement of funding from the Oil Sands Monitoring Program and are to be provided to the Oil Sands Monitoring Secretariat for tracking and any programmatic communications purposes. Work funded through the Oil Sands Program will be available for public dissemination.</p>
October 2016 (original start date)	B-CM-1-1819	OSM - Focus Study	
Program Category *	Status *	Dept. ID	
Indigenous Knowledge, Community Based Monitoring, C	Existing Project		
Project Leadership / Contact information			
Project Title *	Key Words (max 10) *		
Community-Based Fish Monitoring	Indigenous, fish, contaminants, community-based, cultural indicators		
Surname *	Given Name *	Title *	
Tremblett	Krista	Manager	
Organization *	Department	Division	
Alberta Provincial	AEP	EMSD	
Branch *	Section/Unit (if applicable)	Phone *	
IKCMCS		7802297265	
Email *	Mailing Address	City	
krista.tremblett@gov.ab.ca	10 Floor, 9888 Jasper Avenue	Edmonton	
Postal Code	EMSD Executive Owner (If Applicable)		
TSJ 5C6	Gleb Raygorodetsky		
Project Information			
Project Objective(s) (Bullet Form) *	<p><i>Objective</i></p> <p>The objective of this project is to co-design an Indigenous and western science -based community-based monitoring program whereby Indigenous and local knowledge informs the design and implementation of the monitoring and assessment of fish in the Athabasca, Peace and Cold Lake oil sands areas.</p> <p>This project will:</p> <ul style="list-style-type: none"> • support community involvement in fish monitoring design, field collection, analysis, interpretation, and reporting to ensure the project is based on community-specific priorities; • develop a methodology whereby western and indigenous knowledge systems are applied to monitoring design and evaluation; • establish Indigenous culturally relevant indicators of fish health; and, • provide opportunities for relationship building, knowledge sharing and time on the land. <p>Desired outcomes (results):</p> <ul style="list-style-type: none"> • A sustainable community based monitoring program that extends beyond the life of this 3-year project. • Improved understanding of status and health of fish in the Athabasca, Peace and Cold Lake oil sands areas. • Trusted relationships between Indigenous communities and scientists. 		
Plain Language Overview (100 words) *	<p>Access to and health of fish is a key concern for Indigenous communities in the oil sands region. These concerns have been detailed in a variety of documents including the 2015 Review Panel Report for the Lower Athabasca Regional Plan where several First Nations expressed concerns regarding health and abundance of traditional foods and the ability to continue to practice traditional uses along the Athabasca river main stem (LARP Review Panel, 2015). By working in collaboration with Indigenous communities, the Oil Sands Monitoring Program can co-design community-based monitoring programs that address community information needs such as whether there are fish to catch (now and in the future) and whether the fish being caught are contaminated. This project will model an interdisciplinary approach whereby social scientists (e.g. cultural anthropologists) and natural scientists (e.g., aquatic scientists, fisheries biologists) are collaborating with interested Indigenous communities to co-design fish monitoring projects that may involve fish health assessments, fish assemblage monitoring, and contaminants levels. The ultimate goal is to create a platform for long-term community-based fish monitoring programs administered by Indigenous communities.</p>		
Project Duration *	Project Original Start Date *	Estimated Completion Date *	
Multi-Year	1/4/2017	31/03/2021	
Specify Objectives This Project Will Address in 2018/2019. *	<p>The objective of this project is to apply a tested Indigenous and western science -based approach whereby local Indigenous communities and organizations work collaboratively on the design of a program, using traditional and local knowledge, for the monitoring and assessment of fish, an important traditional food for Indigenous communities in the Athabasca, Cold Lake and Peace Oil Sands Regions.</p> <p>In 2018/2019 this project will focus on:</p> <ul style="list-style-type: none"> - Begin monitoring in the Peace and Athabasca regions.* - Co-develop processes and mechanisms for data stewardship and sharing (e.g., QA/QC, storage, and access) and for knowledge co-production (i.e. Indigenous and scientific knowledge holders working together to analyze and interpret data and report on the findings). - Build collaborative knowledge co-production processes for analyzing and interpreting western science data; braiding of Indigenous and scientific knowledge; and, communicating information and new knowledge. <p>*Monitoring with Cold Lake First Nation was initiated in 2017-18.</p>		
Specify Objectives This Project Will Address Beyond 2018/19 (if multi-year). *	<p>It is anticipated that the project objectives will not change throughout the duration of the project. If so, they will be directed by the collaborative relationship between EMSD and the participating communities.</p>		

<p>List Key Questions/Hypotheses Related to Each Objective Stated Above. *</p>	<p>Indigenous communities in the Athabasca, Cold Lake and Peace oil sands regions have expressed concern about access to, as well as abundance and quality of, traditional foods in the oil sands region. Key questions identified by communities include:</p> <ul style="list-style-type: none"> - Are the fish safe to eat? - Are there enough fish to catch now and will there be enough in the future for traditional subsistence use? 	
<p>Main Assumptions, Constraints, Dependencies. *</p>	<p>Communities will be interested in and have the capacity to participate in the project. Where practical the design, data collection, analysis and reporting of this project will be aligned with the existing Long-term Monitoring Work Plan for Fish Health Monitoring (B-LTM-E-8-1718). Constraints ECCC and AEP may not have the scientific capacity required to participate in this project as well as the Long-term Monitoring Work Plan for Fish Health Monitoring (B-LTM-E-8-1718).</p>	
<p>Partner Categories (select all that apply) * A partner is an individual, group, agency, community etc. that is an active participant in the project and in achieving the project deliverables.</p> <p><input checked="" type="checkbox"/> Federal Government <input type="checkbox"/> Another AEP Division <input type="checkbox"/> Another GoA Department <input checked="" type="checkbox"/> University/Academic Institution <input type="checkbox"/> Solely delivered by GoA <input type="checkbox"/> Citizen Science <input checked="" type="checkbox"/> Indigenous Community or Organization <input type="checkbox"/> ENGO <input type="checkbox"/> Other</p>	<p>Knowledge System *</p> <p>Both</p>	<p>Location (select all that apply) *</p> <p><input type="checkbox"/> Office or Laboratory <input type="checkbox"/> Sub-regional <input type="checkbox"/> Transboundary (provincial/territorial) <input checked="" type="checkbox"/> Lower Peace Region <input type="checkbox"/> Upper Peace Region <input type="checkbox"/> North Saskatchewan Region <input type="checkbox"/> Red Deer Region <input checked="" type="checkbox"/> Lower Athabasca Region <input type="checkbox"/> Upper Athabasca Region</p>
<p>AEP ONLY: Strategic Alignment to EMSD Outcomes</p>		
<p>AEP ONLY: Strategic Alignment to EMSD Science Plan, select 1-2 areas that apply (if Applicable) Human Relationship with the Environment Choose one</p>		
<p>AEP ONLY: Strategic Alignment to AEP Departmental Outcomes</p>		
<p>AEP ONLY: Environmental and Ecosystem Health and Integrity</p>	<p>AEP ONLY: Sustainable Economic Diversity</p>	<p>AEP ONLY: Social Well-Being</p>
<p>Biodiversity</p>	<p>No</p>	<p>No</p>
<p>AEP ONLY: Protected Public Health and Safety from Environmental</p>		
<p>Yes</p>		
<p>AEP ONLY: IMAG/IMSC Information Needs, Please Specify Which Need(s) is Being Addressed. File location M:\EMSD\Common\Portfolio Mgmt System Shared Docs</p>	<p>Biodiversity: Provincial scale monitoring of Alberta's aquatic and terrestrial species (what is the current and historic condition or status of indicator x in region y? and is it changing over time?) Environmental Health Risk: What are the contaminants of concern that need to be monitored? What are the levels of contaminants in country foods? where are the contaminants coming from? CBM in support of BMF implementation: what is the abundance and distribution of species that are valued by Indigenous community members?</p>	
<p>AEP ONLY: How This Project Will Address Each Strategic Theme Selected Above.</p>	<p>Human Relationship with the Environment: In this project, communities are defining questions for study, local harvesters are collecting samples and recording traditional knowledge (TK) observation with a view to address community information needs including whether there are fish to catch (now and in the future) and whether the fish being caught are contaminated. TK observations could also contribute to understanding the historic and current abundance and distribution of culturally relevant fish species. Environmental & Ecosystem Health & Integrity (Biodiversity): This project contributes to key strategy 1.4 under this business plan outcome: <i>Continue strengthening our relationship and engagement with Indigenous communities as we respect the objectives and principles of the United Nations Declaration on the Rights of Indigenous Peoples.</i></p>	
<p>Project Methodology</p>		
<p>List the Key Project Phases and Provide Bullets for Each Major Task Under Each Project Phase. *</p>	<p>The pilot phase of this project has focused on supporting communities in designing community-based monitoring projects. The project will reflect community interests, be driven by community concerns, and be developed at a pace that is dictated by the community. Therefore, a successful project will allow substantial time to build relationships and capacity, and will often yield objectives and deliverables that differ from other, more commonly used, monitoring approaches. All participating communities are currently in the pilot phase of this project and are developing as follows:</p> <p>Phase 1: Scoping and Design</p> <ul style="list-style-type: none"> • Confirm community interest in participating. • Identify locally relevant questions and explore stressors through the perspectives of indigenous knowledge and indicators. • Study design including: locally relevant questions and information needs; parameters to be measured/analyzed (e.g., fish presence, length, weight, tissue etc.); sampling sites; collection methods. • Identify areas of alignment between community-led project and the five-year long term fish health and fish community monitoring program including questions, parameters, SOPs, monitoring schedule, sampling sites, analysis, reporting (products, schedule). • Identify capacity needs. <p>Phase 2: Training, Data Collection and Analysis</p> <ul style="list-style-type: none"> • Train participating community monitors. • Evaluate whether existing standard operating protocols for fish collection, supporting water sample collection and contaminant sampling can be applied to the community-led monitoring pilot. • Sample collection on sites identified by communities, in collaboration with ECCC and AEP science staff in the Athabasca, Peace and Cold Lake regions. <p>Phase 3: Interpretation and Reporting</p> <ul style="list-style-type: none"> • Share and review results with communities to verify and approve. • Develop reporting products for target audiences (e.g., government agencies, community members, academic community). 	
<p>Describe How Changes in Environmental Condition Will Be Assessed. *</p>	<p>Both qualitative and quantitative data will be collected to assess changes in fish health, contaminant presence, abundance and access.</p>	

Are There Benchmarks (e.g., objectives, tiers, triggers, limits, reference conditions, thresholds, etc.) Being Used to Assess Changes in Environmental Condition? If So, Please Describe, If Not, State "NONE". *	None
Provide a Brief Description of the Methods By Project Phase. *	<p>During phase 1 (scoping and design), researchers and communities will work together to define questions for study and develop culturally relevant indicators. The mechanisms to achieve this may differ across the region (e.g., local advisory committee of Elders and youth; going out on the land with local harvesters to map fishing camps and other information such as areas are no longer used for fishing (e.g., because of fish health concerns).</p> <p>Phase 2 will focus on training, data collection and analysis. Local harvesters, including elders and youth, will collect fish and generate data on catch and fish health (culturally relevant indicators and standard fish health assessment) and send tissue samples to the University of Saskatchewan for ageing, food web (d13C and d15N), and contaminant (metals and PAH) analyses. Local harvesters and staff will receive training on fish health assessment protocols and will conduct assessments on site.</p> <p>During Phase 3 (reporting), results will be shared and discussed with communities to verify and approve.</p>
List the Key Indicators Measured. *	<p>Contaminants of concern (e.g., PAHs, mercury)</p> <p>Taste, texture, flesh color</p> <p>Size (length, weight)</p> <p>Other culturally relevant indicators related to harvesting (e.g., number of active harvesters)</p>
Describe Sample Handling Procedures, If Not Applicable, State N/A. *	To be developed in 2018-19
List SOPs that Will Be Used, If Not Applicable, State N/A. *	To be developed in 2018-19
Describe the QA/QC Plan, If Not Applicable, State N/A. *	To be developed in 2018-19
Describe How Indigenous Communities are Involved in the Project Design, Data Collection, and Analysis (Knowledge Co-creation) and How is their Consent Sought. If Not Applicable, State N/A. *	<p>As a community-led project, it is important that participating Indigenous community members are involved in all aspects of the project, including program design, implementation, evaluation, reporting, and communication to ensure the project is developed at a pace that is dictated by the community and is based on community-specific priorities.</p> <p>In order to meet standard requirements and professional ethical standards in social science research, informed consent must be given before recording or sharing any information that is gathered during the research. Informed consent means that the participants are informed about exactly what the project is and how the information that they provide will be used. Research participants ultimately own the information that they provide and can withdraw from the research or revoke the recorded information they have provided at any time.</p>
Components Delivered by Others	
List by Project or Project Phase Each Component That Will Be Delivered by an External Party (including analytical laboratories) and Name the Party. State None if Not Required. *	<p>Social science researchers (anthropologists, geographers) from the University of Saskatchewan and the University of Guelph are collaborators in all project phases. Role is to lend expertise in building institutional arrangements for long term sustainable community-based monitoring programs. Collaborators are: Dr. David Natcher (University of Saskatchewan), Dr. Nic Brunet (University of Guelph), and a Post Doctoral Fellow (30% of time embedded within Environmental Monitoring and Science Division in Edmonton and 70% of the research time devoted to collaboration with Indigenous communities and organizations in the oil sands region).</p> <p>University of Saskatchewan is also analyzing fish tissue samples for ageing, food web (d13C and d15N), and contaminant (metals and PAH) analyses. Collaborators are: Dr. Tim Jardine and Dr. Paul Jones (University of Saskatchewan).</p>
Will These Components be Delivered Under Grant or Contract or Both? Please Describe and Name the Associate Work Plan/Grant/Contract for These Services if Not Included Within This Work Plan. *	<p>Components described above will be delivered under grants to the University of Saskatchewan:</p> <p>2017-2018: Existing grant (18GRAEM22) to University of Saskatchewan (Prof. Dave Natcher) carries over past March 31, 2018 (start/end date: Dec 30 2017-Sept 30 2018) to deliver on phase 1 (scoping & design) and to initiate work in phase 2 (training, data collection and analysis). The funding is being used to investigate and apply perspectives of Indigenous and scientific knowledge systems towards the development of a community-based monitoring program focused on fish health and contaminants. The program will be co-created with communities.</p> <p>2018-2019: New grant to University of Saskatchewan (Prof. Dave Natcher) to continue work with communities on identifying indicators, collecting data (e.g., traditional harvest use surveys), and support the development of institutional mechanisms for long term implementation of Indigenous Community Based Monitoring in the oil sands region.</p>
A	
Monitoring Site Locations and Coordinates (for all sites, please add them to the Monitoring Site Location tab - a separate excel sheet)	
Attach Map of Locations. Distinguish Indicators by Station if Necessary. Distinguish Sampling Frequency by Station if Necessary.	
Project Schedule	
FOR OIL SANDS MONITORING PROJECTS ONLY: A coordinated field monitoring schedule for the OSM Program is required. Please complete the attached document named "OSM Program Field Monitoring Schedule" in addition to this work plan. Fill as much as you can recognizing that scheduling changes will occur and the scheduling document will be updated regularly. Please note the scheduling document will be shared with stakeholders.	The field schedule will be determined by each individual community in 2018.
FOR OIL SANDS MONITORING PROJECTS ONLY: Have You Coordinated With Other Project Leads On Field Logistics? If So, Please Specify. *	No
Other	

Additional Details.		
Will Capacity Building and Training be a Component of the Project and If So, Explain How. If Not, State N/A. *	Community members are being taught sample collection methods.	
Environmental Impact and Considerations.		
Data Management and Digital Assets		
Will Data be Produced as a Result Of This Project? *	Type of Quantitative Data Variables	Frequency Of Collection
Yes	Other	Other
	Qualitative Data	To be determined by community
Data Collection Period: Start Date - End Date	Timeline For Upload Period: Start Date - End Date	
June 2017-June 2019		
Is There a Data Sharing Agreement? (Yes or No).	There will be a research agreement with each participating community.	
Will the Data Include Traditional Knowledge as Defined by and Provided by an Indigenous Representative, Community or Organization (Yes / No).	Yes.	
Platform/Location of Data Storage.	TBD.	
Project Deliverables		
Proposed 2018-19 Deliverable Type (for each deliverable outline document, presentation, meeting, etc.)		
<input type="checkbox"/> Peer-reviewed Journal Publication	<input type="checkbox"/> Peer-reviewed Conference Proceeding	<input type="checkbox"/> Non-peer reviewed Conference Proceeding
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	Q1 - Deliverable, Comments
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	Q2 - Deliverable, Comments
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Q4 - Deliverable, Comments
<input type="checkbox"/> Technical Report	<input type="checkbox"/> Book Chapter	<input type="checkbox"/> Public Dissemination Document
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	Q1 - Deliverable, Comments
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	Q2 - Deliverable, Comments
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Q4 - Deliverable, Comments
Contaminant analysis report(s)		Final project annual report in a format that is guided by the community.
<input type="checkbox"/> Conference Presentation(s)	<input type="checkbox"/> Stakeholder Presentation	<input type="checkbox"/> Key Engagement/Participation Meeting *
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	Q1 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.

		Spring 2018 - Scoping meetings in Athabasca and Peace regions. Will include representatives from interested and participating communities, University of Saskatchewan researchers, and Alberta Environment and Parks scientists and technicians. Estimated 15-20 participants.
Q2 - Deliverable, Comments Choose one	Q2 - Deliverable, Comments Choose one	Q2 - Deliverable, Comments Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Q3 - Deliverable, Comments Choose one	Q3 - Deliverable, Comments Choose one	Q3 - Deliverable, Comments Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants. December 2018 - Validation Meeting with each participating community. Will include representatives from participating communities. Estimated 10 participants.
Q4 - Deliverable, Comments Choose one	Q4 - Deliverable, Comments Choose one	Q4 - Deliverable, Comments Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants. March 2019 - Project Open Houses - Fort McMurray, Peace River and Cold Lake. Will include representatives from AEP (EMSD), University of Saskatchewan, GoA, participants of the wetlands, berries and fish projects and additional interested communities. Estimated 40 -50 participants. *To be held in conjunction with Berry, Wetland and other related workplans.
<input type="checkbox"/> EMSD Strategic & Operational Publication	<input type="checkbox"/> Other Documents	
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Other communication tools (audio, video) as directed by community. Annual progress report.
Proposed Deliverables After 2018/2019 for the project funds received in 2018/2019		
<input type="checkbox"/> Peer-reviewed Journal Publication	<input type="checkbox"/> Peer-reviewed Conference Proceeding	<input type="checkbox"/> Non-peer reviewed Conference Proceeding
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	Q1 - Deliverable, Comments
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	Q2 - Deliverable, Comments
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Q4 - Deliverable, Comments
<input type="checkbox"/> Technical Report	<input type="checkbox"/> Book Chapter	<input type="checkbox"/> Public Dissemination Document
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	Q1 - Deliverable, Comments
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	Q2 - Deliverable, Comments

Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Q4 - Deliverable, Comments
<input type="checkbox"/> Conference Presentation(s)	<input type="checkbox"/> Stakeholder Presentation	<input type="checkbox"/> Key Engagement/Participation Meeting *
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	Q1 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	Q2 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	Q3 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	Q4 - Deliverable, Comments
Choose one	Choose one	Name of Meeting, Year, Location, Dates, Participant Groups and Number of Participants.
<input type="checkbox"/> EMSD Strategic & Operational Publication	<input type="checkbox"/> Other Documents	
Q1 - Deliverable, Comments	Q1 - Deliverable, Comments	
Q2 - Deliverable, Comments	Q2 - Deliverable, Comments	
Q3 - Deliverable, Comments	Q3 - Deliverable, Comments	
Q4 - Deliverable, Comments	Q4 - Deliverable, Comments	
All Completed Products		
(consistent format for the fields below). Add rows as required.		
If a multi-year project, specify all completed products to date		
Journal Paper		
Required Format: Author (follow APA citation format), Year, Title, Journal, Volume, Page Numbers, Open or Closed and Document Location		
Example: Jacoby, W. G. (1994). Public Attitudes Toward Government Spending. American Journal of Political Science, 38(2), 336-361. Fearon, J. D., & Laitin, D. D. (2003). Ethnicity, Insurgency, and Civil War. American Political Science Review, 97(01), 75. doi: 10.1017/S0003055403000534		
1)		
2)		
3)		
4)		
5)		
Technical Report		
Required Format: Author, Year, Title, Publisher Location, Name of Publisher, Publisher, Document Location		
Example: Author, F.M. (Publication Year). Title of Report (Report No. XXX). Publisher City, State: Publisher		
1)		
2)		
3)		
4)		
5)		
Book Chapter		
Required Format: Author, Year, Title of Paper, Editors, Title of Book, Page Numbers, Location of Publisher, Name of Publisher, Document Location		

Example: Hemingway, E. (1999). The Killers. In J. Updike & K. Kenison (Eds.), The Best American Short Stories of the Century (pp.78-80). Boston, MA: Houghton Mifflin)		
1)		
2)		
3)		
4)		
5)		
Conference Proceeding		
Required Format: Author, Year, Title of Paper, Editors, Title of Proceedings, Name of Conference Location of Conference, Publisher Location, Name of Publisher, Document Location		
Example: Author of Paper, A., & Author of Paper, B. (Year, Month date). Title of Paper. In A. Editor, B. Editor, & C. Editor. Title of Published Proceedings. Paper Presented at Title of Conference: Subtitle of Conference, Location (inclusive page numbers). Place of Publication: Publisher.)		
1)		
2)		
3)		
4)		
5)		
Public Dissemination Document		
Required Format: Author, Year, Title, Journal / Report, Volume, Publisher, Page Number, Number of Pages, Document Location		
1) Summary of the 2017/2018 Project will be available in March 2018.		
3)		
4)		
5)		
AEP ONLY: EMSD Strategic and Operational Publication		
Required Format: Author, Year, Title, Publisher Location, Name of Publisher, Publisher, Document Location		
1)		
2)		
3)		
4)		
5)		
Other Documents		
Detailed Information of Other Documents		
1)		
2)		
3)		
4)		
5)		
Conference Presentation		
Required Format: Presenter, Date, Location, Title, Platform or Poster, Conference Name		
1)		
2)		
3)		
4)		
5)		
Stakeholder Presentation		
Required Format: Presenter, Date, Location, Title, Platform or Poster, Name of Meeting		
1)		
2)		
3)		
4)		
5)		
Key Engagement/Participation Meeting		
Required Format: Meeting Host, Date, Location		
1) Wood Buffalo Environmental Association, TK Committee Meeting, December 13, 2016, Fort McMurray		
2) Cold Lake First Nations, February 10, 2017, Cold Lake First Nations		
3) Cold Lake First Nations, February 28, 2017, Cold Lake First Nations		
4) Wood Buffalo Environmental Association, February 15, 2017, Anzac (Community meeting)		
5) Cold Lake First Nations, July 6-9 2017, Cold Lake First Nations (Treaty Days)		
6) Cold Lake First Nations, October 18, 2017, Cold Lake First Nations (training)		
Human Resources / Staffing Plan (roles and responsibilities)		
Name & Role	Organization	Responsibilities
Krista Tremblett, Lead		Project oversight and management; coordinate EMSD scientific and technical participation; act as bridge between Indigenous communities and professional/technical project staff; coordinate with other OSM fish projects/programs
Paul Drevnick, Aquatic Scientist	AEP	Provide scientific support (design, training, analysis and reporting)
Fred Noddin, Field Biologist	AEP	Training, meeting with communities, monitoring design, data collection
Keegan Hicks, Technical Support	AEP	Design analysis and interpretation
Justine Kummer, Project support	AEP	Project management/coordination support; tool development
Dr. Dave Natcher, Co-Principal Investigator		
	University of Saskatchewan	Work with communities to identify indicators and collect data including traditional harvest use surveys. support the development of institutional mechanisms for long term implementation of CBM.
Dr. Tim Jardine/Dr. Paul Jones	University of Saskatchewan	Fish tissue analysis and interpretation
Dr. Nic Brunet	University of Guelph	Support the development of institutional mechanisms for long term implementation of CBM
Fin MacDermid, local project lead	Cold Lake First Nations	Liaison between project team and CLFN; Coordinate community involvement in data collection, fish health assessments, TK surveys

Nevada Kipling, local project lead	Beaver First Nation	Liaison between project team and BLFN; Coordinate community involvement in data collection, fish health assessments, TK surveys
Harvey Sawageham, local project lead	Little River First Nation	Liaison between project team and BLFN; Coordinate community involvement in data collection, fish health assessments, TK surveys
Other local project leads as project progresses	TBD	Liaison between project team and communities; coordinate community involvement in data collection, fish health assessments, TK surveys
AEP ONLY: Additional Human Resources Required		
Name & Role	Branch - Section	Estimated time (% of annual FTE)
Krista Tremblett, Project oversight	IKCMCS	20
Fred Noddin, Fish Biologist	EMOB	25
Keegan Hicks, Fish Biologist	EMOB	25
OSM Program Coordinator	IKCMCS	10
OSM Community Liaison	IKCMCS	25
OSM Capacity Development Coordinator	IKCMCS	10
Knowledge Translator	IKCMCS	20
Social Scientist	IKCMCS	20
Financial Details and Budget Request		
Source of Funding Requested Year 2 of 3- 2018/19		
	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		84000
Salaries and Benefits - New OSM Staff		102000
Operations and Maintenance		
Consumable materials and supplies		
Conferences and meetings travel		5000
Field work travel		15000
Project-related travel		7950
Engagement		
Reporting		
External Contracts - Organization/Vendor/Suppliers		
Overhead		
Grants		280500
Capital		
Total budget request for the year	0	494450
Total budget approved		
Source of Funding Requested Year 3 of 3- 2019/20		
	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback	96,000	
Salaries and Benefits - New OSM Staff		
Operations and Maintenance		
Consumable materials and supplies		
Conferences and meetings travel		5000
Field work travel		20000
Project-related travel		10000
Engagement		
Reporting		
External Contracts - Organization/Vendor/Suppliers		
Overhead		
Grants		200000
Capital		
Total budget request for the year	96,000	235000
Total budget approved		
Source of Funding Requested Year 4 - 2021/22		
	AEP ONLY: EMSD	OSM
Salaries and Benefits - AEP Chargeback		
Salaries and Benefits - New OSM Staff		
Operations and Maintenance		
Consumable materials and supplies		
Conferences and meetings travel		
Field work travel		
Project-related travel		
Engagement		
Reporting		
External Contracts - Organization/Vendor/Suppliers		
Overhead		
Grants		
Capital		
Total budget request for the year	0	
Total budget approved		
Budget Request for the Entire Project	96,000	729,450
Project Approval(s)		
Proposal Submitted by		
Surname	Given Name	Organization
Tremblett	Krista	Alberta Environment and Parks
Signature	Date	
X	Proposal for OSM Reviewed by	
Krista Tremblett Manager	Signature	Date February 12, 2018
AEP Administrator/Coordinator - Review	X	Date
	Gleb Rayvorodetsky Executive Director	
ECCC Administrator/Coordinator - Review	Signature	Date
OSM Project Approved by		
AEP Co-Lead for OSM	Signature	Date
ECCC Co-Lead for OSM	Signature	Date
AEP ONLY: Proposal for EMSD Reviewed by		
EMSD Director	Signature	Date
AEP ONLY: EMSD Project Approved by		

EMSD Executive Director	Signature	Date
EMSD Chief Scientist	Signature	Date
OSM / EMSD Project Has Not Been Approved		
Project Status	Date Notified	Date Required
The project is conditionally approved. The following conditions are required before approval is granted.		
List the Condition(s)		
Condition(s) Addressed / Approval Granted		
Choose one		
OSM / EMSD Approval Post Removal of Condition(s)		
Name & Title	Signature	Date

2018-2019 Grant

		Comments
Salaries - non AEP	50000	Post doctoral fellow
Operations and Maintenance	40000	Lab analysis, chemicals and other materials and incidentals.
Consumable materials and supplies	20000	Equipment costs include replacement consumables for 6 community sampling kits.
Conferences and meetings travel	5000	One national or international conference
Field work travel	20000	
Project-related travel	10000	
Engagement	20000	
Reporting	15000	Design, printing, translation
Overhead	25500	
Grants	75000	Grants for 5-6 communities to compensate community monitors (e.g., land users, youth), Elder honorarium, travel, participation in meetings.
Capital	0	
TOTAL	280500	