

APPROVAL OF THE 2020 – 2021
AMBIENT ENVIRONMENT MONITORING PLAN for OIL SANDS DEVELOPMENT

Stephanie Clarke, representing Alberta Environment and Parks (AEP), and,


Kevin Cash (on behalf of Nancy Hamzawi), representing Environment and Climate Change Canada (ECCC),

Hereby approve the attached 2020–21 Ambient Environment Monitoring Plan for Oil Sands Development.

CONDITIONS

1. Approved funding envelopes will be fully released upon receipt and final Co-Chair approval of the work plans.
2. Budgets are to be managed to ensure approved activities are delivered efficiently without unnecessary spending or exceeding allocated amounts.
3. Any potential major change requests to approved activities and budgets are to be identified as early as possible and communicated to Co-Chairs for approval.
4. Final total expenditures will not exceed \$43,914,450.00
5. All data and information generated will be made publicly available and accessible as soon as possible following its collection and verification through quality assurance and quality control procedures, and will be accompanied by the appropriate context about the significance of the results.
6. Any data or information that has immediate and significant impact on human or ecosystem health will be provided to the responsible agencies and potentially affected groups.
7. Alberta Environment and Parks, and Environment and Climate Change Canada will work collaboratively on any communication arising from this work.
8. All funding accepted in 2020–21 will be based upon signed acknowledgement of the Funding Guidelines provided, which articulates expectations for project and financial updates, adherence to the product notification and review process, technical reporting requirements, and provision of data to the Oil Sands Monitoring Program.

APPROVED BY:



 Stephanie Clarke
 Assistant Deputy Minister, Resource Stewardship Division,
 Alberta Environment and Parks (AEP)
 Government of Alberta

Date: July 29, 2020

Cash, Kevin

Digitally signed by Cash,
 Kevin
 Date: 2020.07.29
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 Kevin Cash (on behalf of Nancy Hamzawi)
 Acting Assistant Deputy Minister, Science and Technology,
 Environment and Climate Change Canada (ECCC)
 Government of Canada

Date: _____

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2020 – 21 AMBIENT ENVIRONMENT MONITORING PLAN for OIL SANDS DEVELOPMENT

<u>Activity Identifier</u>	<u>Activity Name</u>	<u>Amounts Approved (June 30, 2020)</u>
A-LTM-S-1-2021	Atmospheric Pollutant Active Monitoring Network	\$12,467,591
A-PD-6-2021	Integrated Atmospheric Deposition Monitoring	\$2,700,000
New	Air Quality Monitoring in the Peace Athabasca Delta	\$114,945
A-PD-4-2021	Understanding OS Air pollution emissions, transformation and fate	\$911,598
CC-7-2021	Meteorological monitoring under Oil Sands Monitoring Program	\$434,220
W-LTM-S-2-2021	Aquatic Ecosystem Health Monitoring	\$4,677,560
W-LTM-S-1-2021	Surface Water Quantity Monitoring - Water Levels and Flows	\$2,062,000
W-MD-8-2021	Differentiating industrial and natural sources of bitumen: determining risks of seepage, and development of standards and Reference Materials	\$665,504
W-MD-7-2021	Representative Sub-basin Studies -Ells and Steepbank Rivers (REPs)	\$97,500
B-LTM-TB-1-2021	Integrated Terrestrial Biological Monitoring	\$4,153,844
WL-PD-10-2021	Wetland Ecosystem Monitoring Program	\$560,000
GW-LTM-S-3-2021	Groundwater Monitoring	\$1,000,000
CC-2-2021	OSM Geospatial Program Development	\$1,593,169
CC-1-2021	Acquisition of Aerial High Resolution Digital Ground Terrain Information in the Peace Athabasca Delta	\$290,899
New	Fort McKay Métis Community-Based Wetland Monitoring	\$206,300
New	Indigenous Water Quality Criteria Development – Phase 2	\$212,448
B-CM-8-2021	Ni ho ghe di – Athabasca Chipewyan First Nation Community Based Monitoring	\$400,000
New	Changes in Fish Tissue: IK and Western Science investigation.	\$200,795
B-CM-6-2021	Where are the Freshwater Clams? An Exploration Using a Community-Based Participatory Approach to Braid Indigenous Knowledge and Western Science Knowledge Systems to Understand Freshwater Clam Health in the Lower Athabasca Region	\$65,000
New	CLFN integrated Community Based Monitoring Program	\$240,030
B-CM-3-2021	Community Led Berry Contamination Study	\$300,000

<u>Activity Identifier</u>	<u>Activity Name</u>	<u>Amounts Approved (June 30, 2020)</u>
B-CM-9-2021	Mikisew Cree First Nation – Community Based Monitoring	\$350,000
New	Safe to Harvest: Analysis of Fish Health Through a Métis Lens	\$100,000
ADM-1-2021	OSM Program Office - Program Administration	\$2,219,349
ADM-2-2021	OSM Science Secretariat & ICBMAC	\$2,839,016
E-6-2021	Integrated Analytics and Reporting on Environmental Condition in the Oil Sands Region	\$1,815,297
D-2-2021	OSM Data Services	\$2,843,385
D-2-2021	Advancing Indigenous Community Based Monitoring in the OSM Program (New)	\$394,000
	GRAND TOTAL	\$43,914,450

Summary of 2020-21 OSM Funding by Theme

<u>Total for Thematic Areas</u>	<u>Approved Amount (June 30, 2020)</u>
Air and Deposition Monitoring (Core)	\$15,167,591
Air and Deposition Monitoring (FS)	\$1,460,763
Water Monitoring (Core)	\$6,739,560
Water Monitoring (FS)	\$763,004
Biodiversity Monitoring (Core)	\$4,153,844
Wetlands Monitoring (Core)	\$560,000
Groundwater Monitoring (Core)	\$1,000,000
Data Management, Integrated Analytics, & Cumulative Effects	\$1,884,068
Community Based Monitoring	\$2,074,573
Oil Sands Program Office	10,111,047
Grand Total	\$43,914,450

Glossary of OSM Terms

- Long-term Monitoring (LTM): refers to the routine (core) monitoring of status and trends of physical/chemical/biological parameters related to oils sands development activities to detect and evaluate changes in the environment over a period of time, typically >5 years.
- Focused Study (FS): A class of purposeful, requested projects with definite start- and end-dates (typically 3 years), according to the characteristics described below.
- Method Development (MD): refers to a study carried out to address limitation or deficiency identified in current monitoring design and/or protocols that may impair the effective monitoring of residual risk. This study requires a statement describing how the deficiency will be mitigated.
- Community Based Monitoring (CBM): refers to collaboration between concerned citizens, government agencies, industry, academia, community groups, and local institutions to monitor issues of common concern.