

**ALBERTA TRANSPORTATION SPRINGBANK OFF-STREAM RESERVOIR PROJECT
RESPONSE TO NRCB AND AEP SUPPLEMENTAL INFORMATION REQUEST 1, JULY 28, 2018**

Abbreviations
May 2019

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1 ABBREVIATIONS

AAAQG	Alberta Ambient Air Quality Guideline
AAAQO	Alberta Ambient Air Quality Objective
AAD	average annual damage
AADT	average annual daily traffic
AAR	alkali-aggregate reaction
AB WQG	Environmental Quality Guidelines for Alberta Surface Waters
ABWRET-E	Alberta Wetland Rapid Evaluation Tool – Estimator
ACIS	Alberta Collision Information System
ACO	Aboriginal Consultation Office
AEP	Alberta Environment and Parks
AER	Alberta Energy Regulator
AESRD	Alberta Environment and Sustainable Resource Development
AGRASID	Agricultural Region of Alberta Soil Inventory Database
ANFO	ammonium nitrate/fuel oil
AQMG	Alberta Air Quality Model Guideline
AVC	animal-vehicle collisions
AWW	Alberta Wildlife Watch
AWWID	Alberta Water Well Information Database
BMP	best management practices
BOD	biochemical oxygen demand
BRPMP	Bow River Phosphorus Management Plan
BSP	biologically sensitive period
BTEX	benzene, toluene, ethylbenzene and xylenes
CAAQS	Canadian Ambient Air Quality Standards
CCME	Canadian Council of Ministers of the Environment
CDA	Canadian Dam Association
CEA Agency	Canadian Environmental Assessment Agency
CEAA	<i>Canadian Environmental Assessment Act</i>

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CEAR	Canadian Environmental Assessment Registry
CEMA	Calgary Emergency Management Agency
CEO	chief executive officer
CFEM	Canadian Foundation Engineering Manual
CH	high plastic glacio-lacustrine clay
CHV	combustible headspace vapours
CMAQ	Community Multi-scale Air Quality
COPC	contaminants of potential concern
COR	Certificate of Recognition
COREL	Certificate of Recognition Equivalency Letter
COV	coefficient of variation
CPT	cone penetration test
CRA	Commercial, Recreational and Aboriginal
Cs	soil concentration
CSA	Canadian Standards Association
CWMS	Civil Works Master Specification
CWQG	Canadian Water Quality Guidelines
CWS	Canada Wide Standards
D ₅₀	median particle size
dB	decibel level
DEP	diesel exhaust particulate
DFO	Fisheries and Oceans Canada
DO	dissolved oxygen
EBAM	environmental beta attenuation monitor
EC	electrical conductivity
ECCC	Environment and Climate Change Canada
ECO Plan	Environmental Construction Operations Plan
EDGM	earthquake design ground motion
EIA	environmental impact assessment
EIS	environmental impact statement

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EI	elevation
EM	electromagnetic
EMS	environmental management system
ENFOR	Enforcement Occurrence Record database
EPEA	<i>Environmental Protection and Enhancement Act</i>
EPP	environmental protection plan
ER	exposure ratio
ERBWMP	Elbow River Basin Water Management Plan
ERC	Emergency Resource Centre
ERP	emergency response plan
ESAR	Environmental Site Assessment Repository
FAP	Flood Advisory Panel
FEM	finite element method
FFA	flood frequency analysis
FOS	factors of safety
FSI	fish sustainability index
FSL	full service level
FWMS	Fisheries and Wildlife Management Information System
GDP	gross domestic product
GEOC	Government Emergency Operations Centre
GIS	geographic information system
GL	glacial lacustrine
GPS	global positioning system
GSD	grain size distribution
GT	glacial till
HD	hydrodynamic modelling
HEC-HMS	Hydrologic Engineering Center Hydrological Modeling System
HHRA	human health risk assessment
HUC	hydrologic unit
HVP	high vapour pressure

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IDF	inflow design flood
IFE	imminent flood emergencies
IR	information request
KWBZ	Key Wildlife and Biodiversity Zone
LAA	local assessment area
LCC	land capability change
L _{dn}	day-night average sound level
LIDAR	light detection and ranging
LLOW	low-level outlet works
LOAEC	lowest-observed adverse effect concentration
LOAEL	lowest observed adverse effect level
LOR	limit of reporting
LOS	level of service
LUA	land use area
LVP	low vapour pressure
LWD	large woody debris
MBCA	<i>Migratory Birds Convention Act</i>
MC1	McLean Creek Option
MDE	maximum design earthquake
MEP	Municipal Emergency Plan
MNL	mitigated noise limit
MOECC	Ontario Ministry of Environment and Climate Change
MOU	memorandum of understanding
MPOI	maximum point of impingement
MSDS	material safety data sheets
MSTB	Mesa Butte/Twin Bridges
MT	mud transport
MU	measurement uncertainty
NAAQO	National Ambient Air Quality Objectives
NEB	National Energy Board

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NOAEL	no observed adverse effect level
NRCB	Natural Resources Conservation Board
NZME	New Zealand Ministry for the Environment
OHI	Obermeyer Hydro, Inc.
OHV	off-highway vehicle
Old North-South Trail	Old Blackfoot Trail and Old Stoney Trail
OLM	ozone limiting method
OM&S	Operation Maintenance and Surveillance Manual
PAM	project administration manual
PDA	Project development area
PFDAT	Provincial Flood Damage Assessment Tool
PHC	petroleum hydrocarbon
PID	photoionizing detector
PLC	programable logic controller
PLUZ	public land use zone
PM	particulate matter
PM ₁₀	particulate matter less than 10 micrometers in diameter
PM _{2.5}	particulate matter less than 2.5 micrometers in diameter
PMF	probable maximum flood
PMP	probable maximum precipitation
PQL	practical quantitation limit
PRA	provincial recreation area
Project	Springbank Off-stream Reservoir
PSHA	probabilistic seismic hazard assessment
PV	present value
QAES	qualified aquatic environmental specialist
QUAT	quaternary ammonium compounds
RAA	regional assessment area
RAP	restricted activity period
RCC	roller compacted concrete

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RCMP	Royal Canadian Mounted Police
RECP	rolled erosion control products
REOC	Regional Emergency Operations Centre
RfC	reference concentration
RFDAM	Rapid Flood Damage Assessment Model
RTK	real time kinematic
SAFRTF	Southern Alberta Flood Recovery Task Force
SAR	sodium adsorption ratio
SCP	site command post
SCRT	specific concerns and response tables
SDI	Slake durability index
SOD	sediment oxygen demand
SOMC	species of management concern
SPT	standard penetration test
SR	special receptor
SR1	Springbank Off-stream Reservoir
SSC	suspended sediment concentration
ST	sand transport
SVM	seasonal variability metric
TAS	traffic accommodation strategy
TBR	Twin Bridges
TDR	technical data report
TDRA	TIMS Data Repository Application
TDS	total dissolved sediments
TGP	total gas pressure
TIMS	Alberta Transportation's Information Management System
TLC	Temporary Letter of Certification
TLRU	traditional land and resource use
TOC	total organic content
TOR	terms of reference

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TRV	toxicological reference value
TSP	total suspended particulate
TSS	total suspended solids
TUS	Traditional Use Study
TVM	total variability metric
US EPA	United States Environmental Protection Agency
USACE	United States Army Corps of Engineers
USBR	United States Department of Interior, Bureau of Reclamation
UV	ultraviolet
VC	valued component
VHV	volatile headspace vapours
VOC	volatile organic compound
WHO	World Health Organization
WMMP	Wildlife Mitigation and Monitoring Plan
WMU	wildlife management unit
WQMF	Water Quality Management Framework
WSC	Water Survey of Canada
ZDL	disturbed land
ZOI	zone of influence
ZREC	reclaimed land

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