

Vancouver Fraser Port Authority

Centerm Expansion Project / South Shore Access Project Environmental Studies – REV. 5

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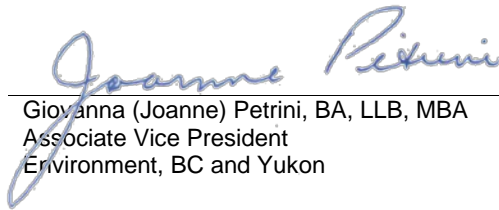


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Chapter 8 Marine Resources

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G2 Foreshore Technologies Biophysical Assessment (September 2016)

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Chapter 10 Archaeological Resources

Appendix I Archaeological Overview Assessment

Chapter 11 Heritage Resources

Appendix J Heritage Impact Assessments

Supporting Reports and Management Plans

Construction Environmental Management Plan

Stormwater Pollution Prevention Plan

Soil Management Plan

Hazardous Materials Site Assessment

Abbreviations

%	Percentage
%HA	Percent Highly Annoyed
$\mu\text{g}/\text{m}^3$	Micrograms per Cubic Metre
3D	three-dimensional
AAQO	Ambient Air Quality Objectives
AEC	Area of Environmental Concern
AGT	Alliance Grain Terminal
ANSI	American National Standards Institute
AOA	Archaeological Overview Assessment
APEC	Area of Potential Environmental Concern
AQO	Air Quality Objectives
BC MOE	British Columbia Ministry of Environment
BC	British Columbia
BCAAQO	British Columbia Ambient Air Quality Objectives
BCCSN	British Columbia Cetacean Sightings Network
BIEAP	Burrard Inlet Environmental Action Program
BMP	Best Management Practice
Bq/m^3	Becquerels per cubic metre
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
CAC	Criteria Air Contaminant
CALPUFF	Atmospheric Dispersion Modelling Program
CCME	Canadian Council of Ministers of the Environment
CCT	Correlated Colour Temperature
CD	Chart Datum
CDC	Conservation Data Centre
CEA Agency	Canadian Environmental Assessment Agency
CEAA	<i>Canadian Environmental Assessment Act</i>
CEMP	Construction Environmental Management Plan
Centerm	Centerm Container Terminal
CEP	Centerm Expansion Project
CEPA	<i>Canadian Environmental Protection Act</i>
CHE	Container Handling Equipment
cm	centimeter

CMA	<i>Canada Marine Act</i>
CNR	Canadian National Railway
CO	Carbon monoxide
CO ₂	Carbon Dioxide
CO ₂ e	carbon dioxide equivalents
COC	Contaminant of Concern
CORMIX	Cornell Mixing Zone Expert System
COSEWIC	Committee on the Status of Endangered Wildlife in Canada
CoV	City of Vancouver
CPR	Canadian Pacific Railway
CRA	Commercial, Recreational, or Aboriginal
CRAB	Create a Real Available Beach
CSA	Canadian Standards Association
CSR	Contaminated Sites Regulation
CWH	Coastal Western Hemlock Biogeoclimatic Zone
CWS	Canada Wide Standards
DB	Decibel
dB	decibels
dBA	A-weighted decibels
DD	Data Deficient
DFO	Department of Fisheries and Oceans (also known as Fisheries and Oceans Canada)
DPM	Diesel Particulate Matter
DPWV	DP World Vancouver
DWT	Dead Weight Tonnes
EA	Environmental Assessment
EAO	British Columbia Environmental Assessment Office
ECCC	Environment and Climate Change Canada
EMA	British Columbia <i>Environmental Management Act</i>
FCH	Full Container Handler
FH	Fairmont Hotel
ft	feet/foot
FTA	Federal Transit Administration / Federal Transportation Administration
GHG	Greenhouse Gas
HA	Highly Annoyed
ha	hectare

Hf	Habitat Factor
HIA	Heritage Impact Assessment
HP	Horsepower
HPS	High Pressure Sodium
HU	Habitat Units
HVAC	Heating, Ventilating, and Air Conditioning
HWR	<i>Hazardous Waste Regulation</i>
IBA	Important Bird Area
ID	Identification/Identity/Identifier
ISO	International Organization for Standardization
ISQG	Interim Sediment Quality Guidelines
KCB	Klohn Crippen Berger
km	kilometre
KWL	Kerr Wood Leidal Consulting Engineers
L	Litre
L_{AFmax}	Maximum Noise Level
L_{den}	Day-evening-night Sound Level
LED	Light-Emitting Diode
LLF	Low Frequency Noise Levels
L_n	Night equivalent Sound Level
m	metre
m^2	square metre
m^3	cubic metre
m^3/s	cubic metres per second
mg/kg	milligrams per kilogram
mg/m^3	milligrams per cubic metre
MPa	megapascal
MVAAQO	Metro Vancouver Ambient Air Quality Objective
NA	Not Applicable
NAAQO	National Ambient Air Quality Objectives
NAR	Not at Risk
NMFS	National Marine Fisheries Service
NO_2	Nitrogen dioxide
NO_x	Nitrogen oxides
NPA	<i>Navigation Protection Act</i>

ODS	Ozone-Depleting Substance
OHSR	Occupational Health and Safety Regulation
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PEL	Probable Effects Level
PER	Project and Environmental Review
PM ₁₀	particulate matter 10 micrometres or less in diameter
PM _{2.5}	particulate matter 2.5 micrometres or less in diameter
PMV	Port Metro Vancouver
PPH	Pan Pacific Hotel
QA	Quality Assurance
QC	Quality Control
R.S.C.	Revised Statutes of Canada
RCNM	Roadway Construction Noise Model
RCNM	Roadway Construction Noise Model
RF	Relief Factor
RMS	Risk Management Solution
RPM	revolutions per minute
RSED	Reference Station Sediment Sampling
RTG	Rubber-Tired Gantry
S.C.	Statutes of Canada
SA	Surface Area
SAP	Sampling and Analysis Plan
SARA	<i>Species at Risk Act</i>
SC	Special Concern
SO ₂	Sulphur Dioxide
SO _x	Sulphur Oxides
SQG	Sediment Quality Guidelines
SRY	Southern Railway of BC
SSAP	South Shore Access Project
T	Threatened
t/y	Tonnes per Year
TEL	Threshold Effects Level
TEU	twenty-foot equivalent unit
TNM	US Federal Hwy Administration Transportation Noise Model

TSP	Total Suspended Particulates
TSS	Total Suspended Solids
TWN	Tsleil-Waututh Nation
USEPA	United States Environmental Protection Agency
Vanterm	Vanterm Container Terminal
VFPA	Vancouver Fraser Port Authority
VOC	Volatile Organic Compound
WQG	Water Quality Guidelines
WRF	Weather Research and Forecasting
WSED	Western Sediment Sampling
Zn	Zinc
ZPMC	Shanghai Zhenhua Heavy Industry Co., Ltd.