



# YORK REGION SEWAGE WORKS PROJECT REPORT

OCTOBER 2023



We acknowledge that York Region is located on the traditional territory of many Indigenous Peoples, including the Anishinaabeg, Haudenosaunee, Huron-Wendat and Métis peoples and the treaty territories of the Haudenosaunee, Mississaugas of the Credit First Nation and Williams Treaties First Nations. Today, this area is home to many diverse Indigenous Peoples, and we recognize their history, spirituality, culture and stewardship of this land. We also acknowledge the Chippewas of Georgina Island First Nation as our closest First Nation community.

The Region of Durham exists on lands that the Michi Saagiig Anishinaabeg inhabited for thousands of years prior to European colonization. These lands are the traditional and treaty territories of the Nations covered under the Williams Treaties, including the Mississaugas of Scugog Island First Nation, Alderville First Nation, Hiawatha First Nation, Curve Lake First Nation and the Chippewa Nations of Georgina Island, Beausoleil and Rama. We honour, recognize and respect Indigenous Peoples as rights holders and stewards of the lands and waters on which we have the privilege to live.

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## **Appendices**

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Acronym	Definition
°C	degree(s) Celsius
AACE	Association for the Advancement of Cost Estimates
AADT	Annual Average Daily Traffic
AAQC	Ambient Air Quality Criteria
ADF	Average Day Flow
ANSI	Area of Natural and Scientific Interest
APU	Assessment of Past Uses
APEC	Area of potential environmental concern
ARA	Aquatic Resource Area
AST	Aboveground storage tank
BHR	Built heritage resource
BLO	Open Bluff Community
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes
CAAQS	Canadian Ambient Air Quality Standards
CAC	Criteria Air Contaminant
CHER	Cultural Heritage Evaluation Report
CHL	Cultural heritage landscape
CHVI	Cultural heritage value or interest
CIAR	Construction Impact Assessment Report
CIPP	Cured-In-Place Pipe
CNR	Canadian National Railway
cm/s	Centimetres per second
COC	Contaminant of concern
COPC	Contaminant of potential concern
CUM	Mineral Cultural Meadow Ecosite
CUT1	Mineral Cultural Thicket Ecosite
DFO	Fisheries and Oceans Canada
DWF	Dry-weather flow
EAA	<i>Environmental Assessment Act</i>
EC	Electrical conductivity
e.g.	Exempli gratia (for example)
ELC	Ecological Land Classification
ECA	Environmental Compliance Approval
ECCC	Environment and Climate Change Canada
EPBTBM	Earth pressure balance tunnel boring machine
ERIS	Environmental Risk Information Services
ESA	Environmental Site Assessment
FOD4	Dry-fresh deciduous forest ecosite
FOD4-2	Dry-fresh white ash deciduous forest type

Acronym	Definition
FOM4	Fresh white cedar mixed forest ecosite
FTA	United states federal transit administration
GBR	Geological baseline report
GIS	Geographic information system
ha	Hectare
HDPE	High-density polyethylene
HIA	Heritage Impact Assessment
HDD	Horizontal directional drilling
HREB	Holland river east branch
HVA	Highly vulnerable aquifers
i.d.	Inner diameter
I&I	Inflow and infiltration
IAA	<i>Impact assessment act</i>
km	Kilometre(s)
km <sup>2</sup>	Square kilometre(s)
km/h	Kilometre(s) per hour
L	Litre(s)
L/s	Litre(s) per second
LAM	Local area municipality
LSRCA	Lake Simcoe Region Conservation Authority
LSW	Locally significant wetland
m	Metre(s)
m/s	Metre(s) per second
m <sup>2</sup>	Square metre(s)
mags	Metre(s) above ground surface
mamsl	Metre(s) above mean sea level
masl	Metre(s) above sea level
mbgs	Metres (s) below ground surface
MCM	Ministry of Citizenship and Multiculturalism
MECP	Ministry of the Environment, Conservation and Parks
MH	Maintenance hole
Minister	Minister of the Ontario Ministry of The Environment, Conservation and Parks
MNRF	Ministry of Natural Resources and Forestry
MTBM	Microtunnel boring machine
MTO	Ministry of Transportation
MTR	Material testing report
MUP	Multi-use path
NFPA	National fire protection association

Acronym	Definition
O.Reg.	Ontario regulation
OGS	Ontario geological survey
OHA	Ontario heritage act
OHSA	Occupational Health and Safety Act
ORAC	Oak Ridges Aquifer Complex
ORM	Oak Ridges Moraine
ORMC	Oak Ridges Moraine Conservation
ORMCP	Oak Ridges Moraine Conservation Plan
o.d.	Outer diameter
OWRA	<i>Ontario Water Resources Act</i>
PAC	Programmable automation controller
PCA	Potentially contaminating activity
PCTL	Precast concrete tunnel lining
PHC	Petroleum hydrocarbons
Phase One Property	Markham Collector Sanitary Sewer (Y2)
Phase One Study Area	Lands within 250 m of the phase one property
PIF	Peak instantaneous flow
PPS, 2020	Provincial policy statement
PPV	Peak particle velocity
PS	Pump station
PSW	Provincially significant wetland
PTTW	Permit to take water
RRCA	Rogers Reservoir Conservation Area
RSA	<i>Railway safety act</i>
RSC	Record of site condition
RMS	Root mean square
ROW	Right-of-way
SAM1-2	Duckweed mixed shallow aquatic type
SAR	Species at risk
SARA	Species At Risk Act
SPBTBM	Slurry pressure balance tunnel boring machine
SEC	Southeast collector
SOE	Support of excavation
SPS	Sewage pumping station
SWH	Significant wildlife habitat
SWM	Stormwater management
TBM	Tunnel boring machine
TDH	Total dynamic head
TRCA	Toronto and Region Conservation Authority

Acronym	Definition
TSS	Total suspended solids
VOC	Volatile organic compound
WHPA	Wellhead Protection Area
WPCP	Water Pollution Control Plant
WRC	Water Reclamation Centre
WWF	Wet-weather flow
YDSS	York Durham Sewage System
YRT	York Region Transit
ZOI	Zone of influence