# patersongroup Remedial Action Plan

## consulting engineers

to:	Riverain Developments Inc.
	Ms. Emily Roukhkian – emily@mainandmain.ca
re:	Environmental Remedial Action Plan  2 Montreal Road and Part of 3 Selkirk Street- Ottawa
date:	June 28, 2022
file:	PE4546-RAP.12
from:	Lauren Kratz

Further to your request and authorization, Paterson Group (Paterson) completed a remedial action plan for the properties municipally addressed as 2 Montreal Road and part of 3 Selkirk Street in the City of Ottawa (Phase I of Development). It is our understanding that Phase I of Development consists of one level of underground parking across the majority of the 2 Montreal Road property and part of the 3 Selkirk Street property.

#### **Environmental Site Conditions**

## **Historical Background**

A Phase I-Environmental Site Assessment (ESA) and Phase II-ESAs have been prepared for the subject site. Based on the findings of the Phase I-ESA, Paterson identified several Potentially Contaminating Activities (PCAs) on the subject site or neighbouring properties which were considered to represent Areas of Potential Environmental Concern (APECs) with respect to the subject site. Phase II ESAs were completed by Golder, EXP and Paterson to address the APECs identified in the Phase I ESA.

A summary of the impacted media presented in the reports is provided below.

## **Impacted Soil**

Based on analytical test results, soil exceeding the Ontario Ministry of the Environment, Conservation and Parks (MECP) Table 3 Standards for residential land use (applicable site condition standards) for multiple parameters is present on Phase I of Development. Soil with concentrations of petroleum hydrocarbons (PHCs), benzene, toluene, ethylbenzene and xylenes (BTEX), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), mercury, and metals exceed the MECP Table 3 standards in the Phase II ESAs completed.

File: PE4546-RAP.12

#### Salt Impacted Soil

EC and SAR are not considered to be contaminants of concern to the subject site but need to be considered when determining a reuse site location for soil leaving Phase I of Development.

#### **Impacted Groundwater**

Concentrations of benzene exceed the MECP Table 3 standard for residential land use on the central portion of the 2 Montreal Road property. The concentrations of benzene exceeding the MECP Table 3 Standards in groundwater have been horizontally delineated within the property boundary. Remaining groundwater samples were in compliance with the MECP Table 3 Standards.

#### **Record of Site Condition**

Due to a change in land use, the proposed residential development will require a Record of Site Condition (RSC) to be filed with the MECP. The suggested remedial approach consists of a full depth generic RSC for a portion of the property and a risk assessment based RSC for the remaining portion of Phase I of Development.

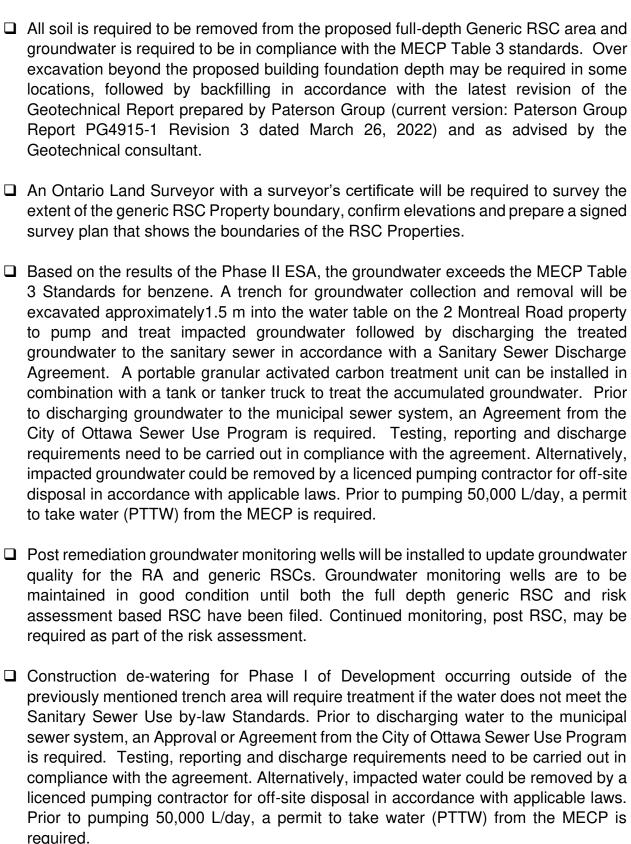
# Remedial Action Plan Summary

To meet the conditions of the full depth generic RSC and risk assessment, the following remedial actions are suggested:

	Existing groundwater monitoring wells are required to be decommissioned by a licenced well driller in accordance with Ontario Regulation (O. Reg.) 903.	
	During the excavation for the proposed development, impacted soil will be screened using visual and olfactory observations as well as a portable soil vapour analyser. Verification soil samples, during the excavation program, will be required to update the data to be included in the RA.	
	Excess soil is required to be handled in accordance with O.Reg. 406/19 – On-Site and Excess Soil Management. Soil to be excavated and removed from Phase I of Development that cannot be beneficially reused in accordance with O.Reg 406/19 will be placed in trucks and hauled to an approved waste disposal facility.	

Emily Roukhkian Page 3

File: PE4546-RAP.12



Emily Roukhkian

Page 4

File: PE4546-RAP.12

We trust that this information satisfies your requirements,

Best Regards,

Paterson Group Inc.

Lauren Kratz, P.Eng.

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