

**re: Environmental Remedial Action Plan**

**Proposed Site Redevelopment**

**178, 180, 182 and 200 Isabella Street – Ottawa, Ontario**

**to: Minto Communities – Mr. Kevin Harper – [kharper@minto.com](mailto:kharper@minto.com)**

**date: January 15, 2026**

**file: PE4710-RAP.01R**

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Further to your request and authorization, Paterson Group (Paterson) has prepared a remedial action plan for the Phase II Property addressed, 178, 180, 182 and 200 Isabella Street, in the City of Ottawa. The subject site is shown on Drawing PE4710-1R – Site Plan, appended to this remedial action plan.

At the time of this Remedial Action Plan, the estimated quantities are preliminary estimates.

## **Environmental Site Conditions**

### **Background Information**

In addition to the original Phase I and Phase II Environmental Site Assessments (ESAs), multiple Phase I and Phase II ESA Updates have been completed for the subject site. Findings from the Phase I ESAs identified historical site uses that were considered potentially contaminating activities (PCAs), resulting in the identification of areas of potential environmental concern (APECs), as well as the presence of fill material of unknown quality given that up to 7 former buildings have been present on site at one time or another. Consequently, Paterson conducted a Phase II ESA to further assess these APECs.

Based on the 2019 Phase II ESA, fill material in the area of BH2-19 was identified as impacted with lead and several PAHs in excess of the selected MECP Tab 3 residential standards. All of the groundwater test results were in compliance with the selected MECP standards.

As part of the more recent Phase II ESA Updates completed in 2023 and 2025, groundwater samples were collected from BH1 and submitted for laboratory analysis of BTEX and petroleum hydrocarbons (PHCs; F1–F4). No BTEX or PHC exceedances were identified. Based on the available data, groundwater beneath the subject site is considered to be clean.



## **Contaminated Fill Material**

Based on the findings of the Phase II ESAs, fill material in the area of BH2-19 is contaminated with metals (lead) and several PAHs in excess of the selected MECP Table 3 Residential Standards. The fill material across the subject site extends from ground surface to approximate depths ranging between 0.60 mbgs and 2.80 mbgs.

The fill material across the site consists primarily of silty sand with gravel, with occasional concrete and brick fragments observed in boreholes. It is expected that some demolition debris will be encountered, in the fill present across the site. Any such fill material identified during the foundation excavation program will have to be removed from the subject site as contaminated soil.

Soil testing will be required in conjunction with the excavation program to segregate clean soil/fill from impacted fill and for final confirmatory purposes.

## **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 during development.

## **Groundwater**

Based on the findings of the Phase II ESAs, groundwater data available to date did not identify any impact. However, as a precautionary measure we recommend carrying a nominal budget to deal with impacted groundwater.

If any free groundwater is encountered during construction it will require testing to confirm the appropriate method of disposal.

## **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 approach consists of a full depth generic RSC for the property upon completion of remediation program.



## Remedial Action Plan Summary

The suggested remedial action plan is as follows:

- A soil remediation program to separate impacted fill from the clean soil will be conducted. Additional testing will be required as per O. Reg. 406/19 – On-Site and Excess Soil Management and to segregate impacted material from clean material (fill/soil). This approach will be used in conjunction with the site development.
- All the impacted fill will be segregated from clean soil and disposed off site at an approved waste disposal facility. A TCLP analysis will be carried out on a representative sample. Excavated soil will be screened using visual and olfactory observations and a portable soil vapour analyser.
- Non-impacted soil will be assessed to determine an appropriate reuse site. Any excess soil generated during the site redevelopment will be managed in accordance with Ontario Regulation 406/19 – On-Site and Excess Soil Management.
- Final confirmatory soil testing will be conducted to verify that the subject site is clean, and a final remediation report will be prepared and incorporated in the Phase II-ESA report.
- A Record of Site Condition (RSC) will be filed with the MECP.

## Estimated Quantities

Based on the most recent information, the proposed development on the subject site will consist of a 19-storey residential building with two levels of underground parking. It is anticipated that the entire site area will be excavated to the base of the P2 parking level, to an approximate depth of 7 m below ground surface.

Based on the available borehole data, the average depth of fill extends to about 1.90 m below ground surface (mbgs) in the western portion of the site and approximately 0.60 mbgs in the eastern portion. The total volume of fill material at the subject site is estimated to be approximately 3,650 m<sup>3</sup>.

It is estimated that approximately 50% to 60% of the fill material is impacted and will require disposal at an approved landfill facility. Accordingly, the volume of fill material requiring landfill disposal is estimated to range from approximately 1,825 m<sup>3</sup> ( $\approx$ 3,650 mt) to 2,190 m<sup>3</sup> ( $\approx$ 4,380 mt).



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It should be noted that, based on the results of the future testing, the volume of contaminated fill requiring disposal at a licensed landfill facility may vary from the quantity estimated in the table above.

We trust this satisfies your immediate requirements.

Best Regards,

**Paterson Group Inc.**

Kuldeep Panchal, M. Eng.

Mark D'Arcy, P.Eng, QP<sub>ESA</sub>



**Attachments:**

- Drawing PE4710-1R – Site Plan

**Report Distribution:**

- Minto Communities
- Paterson Group Inc.



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