Geotechnical Engineering

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Environmental Site Remediation Program

37 Cumberland Street Cornwall, Ontario

Prepared For

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EXECUTIVE SUMMARY

Assessment

Paterson Group monitored the remediation excavation of contaminated fill at 37 Cumberland Street in the City of Cornwall, Ontario. The contaminated soil had been identified by a Phase II ESA conducted by Paterson, at the subject site. Paterson was responsible for the segregation of contaminated and non-contaminated soil using visual screening methods and analytical testing. The impacted fill material consisted of a layer clearly distinct from the underlying native glacial till. The fill had a dark colouration and loose consistency, while the glacial till was dense and light coloured.

The excavated area was located along the front of the building (adjacent Cumberland Street) located at the subject property. The excavation terminated at depths ranging between 0.4 and 1.2 m below surrounding grade, and was terminated in dense glacial till. The excavation was bound by the building foundation to the east, and the property line to the west, while the north and south walls of the excavation were terminated where soil was found to comply with the selected site standards. Approximately 127 metric tonnes were removed from the property, and disposed of at the Cornwall landfill.

Analytical test results indicate that all confirmatory samples, collected from the glacial till, are in compliance with the selected MOE Table 3 standards. Furthermore, based on these results, the glacial till does not indicate any signs of potential leaching to have occurred. No groundwater was encountered in the excavation, however, water samples (collected as part of the Phase II-ESA) from a groundwater monitoring well located within the footprint of the excavated area did not indicate any exceedances of heavy metals when compared to the MOE Table 3 standards.

Conclusion

Based on our field observations combined with the analytical test results, in our opinion, all contaminated soil identified during the Phase II-ESA of 37 Cumberland Street, has been removed. No further remedial work is recommended at this time.

