

## **Status of Audit Recommendations and Key Cybersecurity Risks**

**Date:** November 19, 2021

**To:** General Government and Licensing Committee

**From:** Chief Information Security Officer

**Wards:** All

### **REASON FOR CONFIDENTIAL INFORMATION**

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The attachments to this report involves the security of property belonging to the City of Toronto.

### **SUMMARY**

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City Council requested the Chief Information Security Officer (CISO) to report to the General Government and Licensing Committee on a biannual basis regarding the City-wide cyber security program. This is the first such report and includes two confidential attachments:

- Attachment 1 Describes the City's Cyber health as seen from three lenses: cyber resilience, cyber maturity, and cyber awareness.
- Attachment 2: Provides an overview of audit remediation status.

Further, these attachments provide details on:

- A. Overall cyber health of the organization, the progress made in the past six month and the benefits/efficiencies achieved as a result of the Cyber program implementation, including embedding "cybersecurity by design" principles to support the City's modernization efforts;
- B. The status of all outstanding audit recommendations that have not been implemented to date, including any increase to the City's cybersecurity risk profile
- C. Additional supports required to address cybersecurity risks in an expedited manner.

Subsequent reports to the GGLC will include updates on the following:

- Projects, initiatives, procurement, and operations where cybersecurity requirements or directives were not included in the process

The attachments also include highlights of the progress the Office of the CISO (OC) has made, in collaboration with Technology Services Division (TSD) and the City's critical infrastructure Divisions, in embedding cyber security risk management practices in their projects, initiatives, procurement, and operations.

## **RECOMMENDATIONS**

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The Chief Information Security Officer recommends that:

1. City Council direct that Confidential Attachments 1 & 2 remain confidential in their entirety, as they involve the security of property belonging to the City of Toronto.

## **FINANCIAL IMPACT**

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Any costs associated with addressing the details on both confidential attachments have been included in the 2022 operating budget.

## **DECISION HISTORY**

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On April 7 and 8, 2021, City Council requested the Chief Information Security Officer to report to the General Government and Licensing Committee on a biannual basis regarding the City-wide cybersecurity program,

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2021.AU8.5>

Other cyber security related reports and City Council decisions include:

Audit of Information Technology Vulnerability and Penetration Testing – Phase 1:  
External Penetration Testing

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2016.AU5.10>

Information Technology Vulnerability Assessment and Penetration Testing - Wrap-up of Phase I and Phase II

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2017.AU8.6>

Cyber Safety: A Robust Cybersecurity Program Needed to Mitigate Current and Emerging Threats

<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2019.AU4.1>

Cyber Safety - Critical Infrastructure Systems: Toronto Water SCADA System  
<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2020.AU5.6>

Cybersecurity Incidents at the City and its Agencies and Corporations: Integrated Incident Response Plan is Needed  
<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2021.AU8.9>

Information Technology Projects Implementation: Information Privacy and Cybersecurity Review of Human Resource System  
<http://app.toronto.ca/tmmis/viewAgendaItemHistory.do?item=2021.AU8.8>

## **COMMENTS**

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This report contains two confidential attachments that provide detail on the overall cyber security health of the City.

## **CONTACT**

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Abiodun Morolari, Chief Information Security Officer, 416-396-4693,  
[Abiodun.Morolari@toronto.ca](mailto:Abiodun.Morolari@toronto.ca)

Dalton McCormack, Manager Office of the CISO, 416-392-3404,  
[Dalton.McCormack@toronto.ca](mailto:Dalton.McCormack@toronto.ca)

## **SIGNATURE**

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Abiodun Morolari  
Chief Information Security Officer

## **ATTACHMENTS**

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Confidential Attachment 1 - The City's Cyber Health

Confidential Attachment 2 - Additional Information on the Status of Audit Recommendations and Key Cybersecurity Risks