



AUDIT HIGHLIGHTS

Network Security Audit

May 3, 2021

Audit Report No. 2106

WHY WE DID THIS AUDIT

The *Network Security Audit* was included on the City Council-approved fiscal year (FY) 2020/21 Audit Plan as a contracted audit of a selected information technology (IT) system or area. This audit's objective was to evaluate the effectiveness of the City's network security controls.

BACKGROUND

We contracted with an independent IT Audit specialist, Berry Dunn McNeil & Parker, LLC (BerryDunn), to perform this work. The scope of this review included external vulnerability scanning and penetration testing, server configuration assessment, and an IT governance controls review.

The Information Technology department manages the City's core infrastructure and network components. Additionally, the larger City departments, such as Scottsdale Water, Police, and Community Services, have department-level technology staff that support day-to-day operations and departmental systems.

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WHAT WE FOUND

IT Governance, Policies and Procedures

The following areas for improvement were identified:

- Standards for configuration and hardening of servers and database environments have not been formalized.
- Roles and responsibilities between IT and department technology groups are not clearly identified in a written document, such as a memorandum of understanding.
- Resources needs assessment should be performed to ensure adequate resources are allocated to manage the City's security needs.
- The disaster recovery and business continuity plan for IT has not yet been completed and tested.

Technical Review

No critical issues were identified. A separate confidential report was provided to the IT department detailing the results, along with recommendations to enhance and mature the security of the City's network and technical assets.

WHAT WE RECOMMEND

The IT department appropriately prioritize and address the IT governance and technical matters detailed in the security assessment.

MANAGEMENT RESPONSE

The department agreed with the recommendations and noted that corrective actions are underway.