

DISTRICT OF COLUMBIA WATER AND SEWER AUTHORITY

Board of Directors

Audit and Risk Committee

April 28, 2022

9:30 a.m.

Microsoft Teams Meeting Join on your computer or mobile app

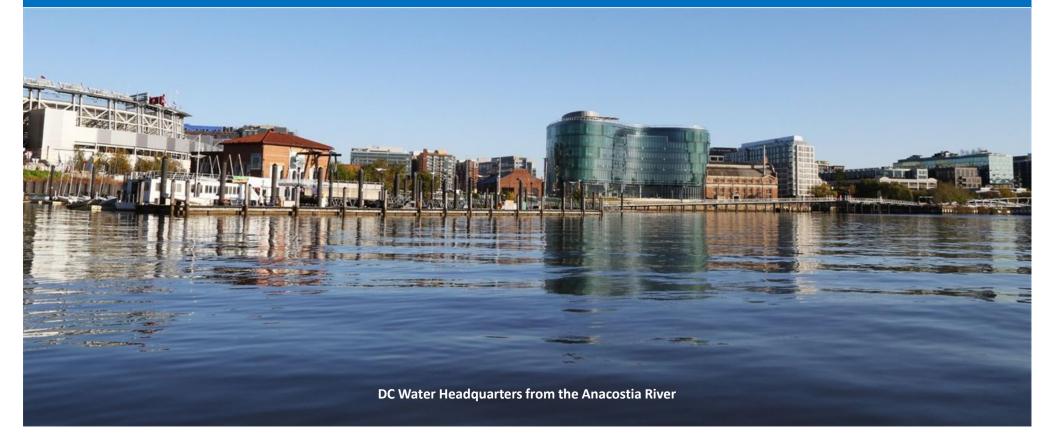
Join on your computer or mobile app <u>Click here to join the meeting</u> Or call in (audio only) <u>+1 202-753-6714,,854264508#</u> United States, Washington DC Phone Conference ID: 854 264 508#

1.	Call to Order
2.	Roll CallLinda Manley, Board Secretary
3.	FY 2021 Financial Statements Audit Management Letter Matthew Brown, CFO
4.	Enterprise Risk Management BriefingDeloitte
5.	Internal Audit Update
6.	Executive Session*
7.	AdjournmentFloyd Holt, Chairperson The DC Water Board of Directors may go into executive session at this meeting pursuant to the District of Columbia Open Meetings Act of 2010, if such action is approved by a majority vote of the Board members who constitute a quorum to discuss: matters prohibited from public disclosure pursuant to a court order or law under D.C. Official Code § 2-575(b)(1); contract negotiations under D.C. Official Code § 2-575(b)(2); legal, confidential or privileged matters under D.C. Official Code § 2-575(b)(4)(A); collective bargaining negotiations under D.C. Official Code § 2-575(b)(5); facility security under D.C. Official Code § 2-575(b)(8); disciplinary matters under D.C. Official Code § 2-575(b)(9); personnel matters under D.C. Official Code § 2-575(b)(10); proprietary matters under D.C. Official Code § 2-575(b)(11); train and develop members of a public body and staff under D.C. Official Codes § 2-575(b)(12); decision in an adjudication action under D.C. Official Code § 2-575(b)(13); civil or criminal matters where disclosure to the public may harm the investigation under D.C. Official Code § 2-575(b)(14), and other matters provided in the Act.



FY 2021 Financial Statements

Presentation to Audit Committee, April 28, 2022 Matthew T. Brown, Chief Financial Officer and Executive Vice-President District of Columbia Water and Sewer Authority







Review DC Water's fiscal year 2021 financial statement audit management letter comments and recommendations



FY 2021 Management Letter

- One comment: Strengthen controls over service periods used in the capital accounts payable accrual
 - Incorrect service periods led to an overestimation of construction in progress by \$521,281
 - The invoice data on the accrual projection did not match the service period of the invoices
 - A review of the invoice coding did not detect the incorrect service periods for the invoices

Recommendation

 Management needs to strengthen its controls over the accuracy of the service periods entered in the Oracle

• Corrective action plan

 The finance team has strengthened controls to ensure that service periods entered in the Oracle system agree with related invoices

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Annual External Audit Process

- Annually the external auditor reviews DC Water's financial and budget processes and controls
- The Auditors:
 - Perform a risk assessment includes a review of board actions and discussion with management across the organization, including ongoing discussions with internal audit
 - Obtain an understanding of DC Water's processes through walkthroughs and discussions with key personnel
 - Review DC Water's financial statements for form and content in accordance with GAAP using proprietary presentation and disclosure checklists
 - Review and discuss with management DC Water's accounting white papers related to new GASB pronouncements and other accounting issues annually
 - Communicate findings and observations to management and the Board through the management letter and report on internal controls in accordance with Government Auditing Standards



Management Letter, Significant Deficiency and Material Weakness

s a deficiency, or combination	Significant Deficiency	
of deficiencies, in internal control, such that there is a	Is a deficiency, or a combination of deficiencies, in	Management Letter
reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected on a timely basis	internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance	Certain matters involving internal control and other operational matters that represent opportunities for strengthening internal controls and operating efficiency

This was the first audit completed in the new Oracle financial system, no significant deficiencies or material weaknesses were identified during the audit

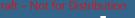
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DC Water's history of strong controls

- Received GFOA Certificate of Achievement for Excellence in Financial Reporting for twenty-four consecutive years
- No material weaknesses or significant deficiencies noted for over eight years
- OC Water continues to maintain a low-risk auditee status for the OMB Uniform Guidance audit (audit of federal awards)
- This was the first audit completed in the new Oracle financial system; The auditor issued unmodified opinions on both financial statements and the schedule of expenditures of federal awards





DC Water Enterprise Risk Management (ERM)

Board Briefing – Enterprise Risk Assessment Summary

April 28, 2022

ARUP + Deloitte & Touche



Enterprise Risk Assessment (ERA) Overview

DC Water conducted an enterprise risk assessment to identify and prioritize the top risks facing the organization. This reports summarizes the findings from that effort.





DC Water Top Enterprise Risks

Below is the prioritized list of top enterprise risks as discussed with the DC Water leadership.

		Blueprint 2.0 Strategic Imperative	25		
lealthy, Safe and Well Reliable		Resilient	Sustainable	Equitable	
People		Digital	Soc	ial Pressures	
Talent Management (e.g., development, succession	• C)	/bersecurity	Stakeholder Managencies, custor		
planning, skills) Health & Safety			Changing Regul federal, state, lo		
Attract Top Talent			External Oversig	ht of DC Water	
Assets		Tier 1	Rev	enue / Costs	
Reliability (e.g., single source o water, asset failure, aging	of	Key Tier 2	 Revenue Corros Washington Aqui		
infrastructure) Decision Making (e.g., major project execution)		L	Third-Party Mar		
Catastrophic Events					





Impact measures the consequence of the potential risk should it materialize. Vulnerability measures the degree to which controls, and risk mitigation efforts are effective in reducing exposure if the risk occurs.

This document is intended solely for the information and internal use of DC Water and should not be used or relied upon by any other person or entity.

Prioritization of Top Enterprise Risks



Risk Interdependencies

Several of DC Water's top enterprise risks are interconnected. When Allocating resources to response plans, it will be helpful to understand the connectivity between these risks to gain efficiencies.

	Reliability	Revenue Corrosion	Talent Management	Stakeholder Management	Changing Regulations	Decision Making
Reliability			~	~	~	~
Revenue Corrosion				~	~	
Talent Management	~					~
Stakeholder Management	~	~			~	\checkmark
Changing Regulations	~	~		~		
Decision Making	~		~	~		



Next Steps: Risk Treatment Plans and Reporting of Top Enterprise Risks

As DC Water mobilizes resources to "take action" on top enterprise risks, consider assigning ownership, developing treatment strategies, reallocating resources, and monitoring for changes and progress.

Assign (i) SET member to serve as "Executive Risk Sponsor," (ii) Enterprise Risk Management Committee member as Risk Owner, and (iii) Designated Support members for each top enterprise risk.



Mobilize resources to activate risk response plans, including the Risk Owner's Designated Support to drive day-to-day activities.

Document/Develop risk treatment strategies and response plans.

- Determine risk treatment strategy and tactics to better manage each risk.
- Develop specific and measurable risk response plans, including roadmaps and specific metrics.



Develop a cadence to monitor and report on risks and response plans.

- Provide periodic risk updates to the SET.
 - Provide periodic risk updates to the Audit & Risk Committee.

Audit and Risk Committee - 4. Enterprise Risk Management Briefing.- Deloitte

Appendix

Summary of Top Enterprise Risks – Tier 1

Scale to rate Impact and Vulnerability:



Risk Statement	Risk Drivers and Considerations	What We Heard	Rating
Reliability (e.g., single source of water, asset failure, aging infrastructure) Inability to provide reliable service due to water supply shortages, asset failure or aging infrastructure, may lead to unsatisfied customers and regulatory scrutiny.	 Reliance on single water source, which DC Water does not own High cost to replace aging infrastructure Potential for asset failure 	"We only have a 24–36-hour water supply if something happens on the Potomac." "I worry about asset failure."	High Impact Med-High Vulnerability
Revenue Corrosion Inability to keep rates affordable while promoting sustainability and maintaining sufficient revenue to operate the business, may lead to inadequate funding to provide safe and reliable services.	 ~1% annual decrease in water consumption, likely due to conservation efforts Mandated capital improvement projects Late fees paused due to COVID-19 Global supply chain and inflation effects on costs 	"With the rise in cost of materials and supplies, either we ask more from rate payers, or have to do fewer capital projects."	Med-High Impact Med-High Vulnerability
Talent Management (e.g., development, succession planning, skills) Failure to maintain a skilled workforce may lead to increased cost, safety missteps, challenges with succession planning, or potential negative impact on operational reliability.	 Impact of contractors on ability to develop inhouse skills Institutional knowledge not shared consistently Key person risk / single point of failure Scarcity of niche talent needs Lack of performance plans for unionized workforce 	"We have an aging skills profile based on what the organization needed 25 years ago, but as we build new capabilities, we need people with new sets of skills."	MedHigh Impact MedHigh Vulnerability

Summary of Top Enterprise Risks – Tier 1 (cont.)

Draft – Not for Distribution

water

Scale to rate Impact and Vulnerability:

Risk Statement	Risk Drivers and Considerations	What We Heard	Rating
Decision Making (e.g., major project execution) Inability to streamline decision making and culture to prioritize or execute on its major projects may lead to operational inefficiencies and increased cost.	 DC Water historically had a siloed culture Focus on meeting regulatory requirements may delay funding for other infrastructure projects 	"Without all the necessary information, we manage risk by being overly conservative, which is expensive."	MedHigh Impact MedHigh Vulnerability
Stakeholder Management (e.g., agencies, customers, unions) Failure to manage its stakeholders, including local and federal agencies, customers, and unions, may lead to reputational harm, project delays, and budgetary issues for the Authority.	 Coordination with other utilities and agencies Managing customers' expectations as a non-profit 70% of DC Water workforce is unionized Operational incident, caused by DC Water or not Public perception management of projects and products 	"We need to collaborate with other utilities and agencies to fix issues, but if they don't want to play ball, then we are stuck."	Med. Impact Med. Vulnerability
Changing Regulations (e.g., federal, state, local) Inability to anticipate and adequately respond to the adoption of statutes, regulations, or standards (federal, state, local) may impact the Authority's ability to achieve its strategic imperatives.	 Potential federal or local regulatory changes' affect on water standards could have a financial impact Relative ease to pass local legislation in DC Federal mandates for programs (e.g., Clean Rivers) 	"We don't think enough about how we will work to meet future regulatory requirements."	Med. Impact Med. Vulnerability

Summary of Top Enterprise Risks – Tier 2

Scale to rate Impact and Vulnerability:



water

Risk Statement	Risk Drivers and Considerations	What We Heard	Rating
Cybersecurity Failure to support and protect technology, systems, and critical data assets from a cyber attack could lead to significant disruptions to our business operations and potential loss of stakeholder trust and confidence.	 Status as critical infrastructure provider for U.S. capital Evolving and increasingly complex nature of cyber threats 	"Cyber is always going to be a risk, especially as threats become more complex and prevalent."	MedHigh Impact Med. Vulnerability
External Oversight of DC Water Inability of DC Water to maintain its independence from the Washington, DC government or increased oversight efforts around rate approvals and key operational decisions may impact available resources or ability to borrow money at lower rates.	 Increased DC government scrutiny of DC Water and its rates (e.g., Office of People's Counsel) Reallocation of resources to meet demand of DC governmental requests for meetings & inquiries Potential impacts to credit and bond ratings due to increased oversight / scrutiny from regulators 	<i>"Increased government oversight and interaction has forced us to dedicate resources to appease meetings and inquiries"</i>	MedHigh Impact Med. Vulnerability
Health & Safety Failure to ensure the safety of the workforce or the broader community may result in serious injury / illness, financial losses, and/or reputational damage.	 Lack of comprehensive safety assessment Lack of accountability at frontline level No systematic process to measure changes in safety culture 	<i>"We don't have a great safety culture or tools to measure it. We've come a long way in the past three years, but we have a long way to go."</i>	MedHigh Impact Med. Vulnerability
Washington Aqueduct Contract Inability to negotiate favorable terms in the contract negotiation for purchasing water from the Washington Aqueduct may result in unfavorable financial and reliability performance.	 Water purchase contract with Washington Aqueduct expires in 2023 and has been in place since the 1990s DC Water is the Aqueduct's primary customer but relies solely on it for its water supply 	"Even though we don't operate the Washington Aqueduct, the public would probably blame us if something failed."	Med. Impact Med. Vulnerability



water

Scale to rate Impact and Vulnerability:

Risk Statement	Risk Drivers and Considerations	What We Heard	Rating
Catastrophic Events Inability to respond quickly and effectively to catastrophic events, e.g., pandemics, extreme weather events, etc., may negatively impact annual budgets, disrupt operations, and erode public trust.	 Climate change and weather-related events (e.g., floods) Infrastructure failure (e.g., Blue Plains) Multiple risks materializing concurrently 	<i>"We should be planning for two or more unknowns at the same time, like Japan when it had a tsunami and nuclear reactor go down in the same event."</i>	Med. Impact Med. Vulnerability
<u>Attract Top Talent</u> Inability to attract top talent may result in insufficient resourcing or misalignment with roles, significantly impacting the Authority's ability to maintain reliability, affordability, and achieve its overall corporate objectives.	 Competition for talent, especially in evolving, post- COVID labor market Requirements to source talent from DC area Difficulty bringing institutional knowledge in-house 	"One of the biggest risks we have is that we are too lean. We can't hire enough people." "The availability of qualified people is not there."	Med. Impact Med. Vulnerability
Third-Party Management Risk that third parties' (e.g., partners, vendors, suppliers, and contractors) poor performance, the Authority's ineffective management, or excessive reliance may have negative impacts to the Authority's reputation and/or operations.	 Balance of what is developed in-house vs. outsourced Reliance on third parties for critical parts of business Third parties may be unable to meet obligations 	<i>"We don't have a dashboard to monitor vendor performance."</i>	Med. Impact MedLow Vulnerability

Audit and Risk Committee - 5. Internal Audit Update - Dan Whelan, RSM, Auditor General

DC WATER

Audit & Risk Committee Meeting

April 28, 2022



Agenda

- FY 2022 Internal Audit Plan Status Update
- Status Update on Prior Audit Findings
- Report on Completed Audits
 - Accounts Payable Internal Audit
 - Supply Chain Management Assessment
- Hotline Update
- Executive Session
 - Incident Response Tabletop Exercise



AUDIT PLAN STATUS UPDATE



Internal Audit Plan Status Update

Audit	Status
FY 2022	
Contract Monitoring & Compliance Audit	Report Complete
Supply Chain Assessment	Report Complete
Accounts Payable Audit	Report Complete
Incident Response Tabletop Exercise	Report Complete
Expenditures Analytics Assessment	Fieldwork in Progress
Strategic Plan Monitoring Audit	Planning in Progress
Employee Retention Assessment	Planning in Progress
Physical Security Audit – HQO & Ft. Reno	Planning in Progress
Work Order Management Audit – DSO	Not Started
Cyber Threat Intelligence	Not Started
FY2023 Risk Assessment	Not Started
Remediation & Follow Up	On-going
Hotline Management	On-going



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Internal Audit Plan FY 2022 Timeline

	Oct – 21	Nov – 21	Dec - 21	Jan – 22	Feb – 22	Mar – 22	Apr – 22	May– 22	Jun – 22	Jul – 22	Aug – 22	Sep - 22	Oct - 22
Contract Compliance Audit			I										
Supply Chain Assessment				Σ									
Accounts Payable Audit)						
Incident Response Tabletop Exercise)	i							
Expenditures Analytics Assessment						1							
Strategic Plan Monitoring Audit							Σ						
Employee Retention Assessment													
Physical Security Audit – HQO & Ft Reno							Σ						
Work Order Management Audit – DSO										\sum			
Cyber Threat Intelligence										Σ			
► FY 2023 Risk Assessment													
 Ongoing Follow-up Procedures 		† 	i 1		1	i 1			i I				
Ongoing Hotline Monitoring		† 	i			i			1				

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Open High Risk Prior Audit Findings

	Audit FY	Issue Date	Audit Report	High Risk Open Finding	Original Target Date	New Target Date	# Extensions
1	2016	7/28/2016	Training, Licensing, and Certification	Identification and monitoring of training requirements by position	9/30/2017	6/6/2022	5
				Status notes: Three training buckets (safety, compliance, and technical) have been configure system (LMS), but will be transitioned into the new Oracle LMS module that went live in Mari identified by each department. Requirements are undergoing validation by HRBPs and all the Talent. Trainings will be assigned by role once content is uploaded to Oracle LMS. Reason for extension: Multiple changes in leadership within People & Talent, not prioritized technical trainings requiring cross-departmental support, delay in Oracle implementation go	rch. Technical tra raining content is ed under previous	aining requireme being collected	nts have been by People &

Legend
Past due
Original target date has not yet come due



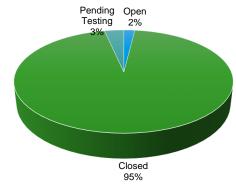
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Status Update on Prior Audit Findings

Audit Report/Subject	Report Issue Date	Corrective Actions							
		Total	Open	Closed	Pending Testing ¹				
Prior to FY21 Audit Findings									
Training, Licensing & Certification	7/28/2016	7	1	6	0				
HR/Employee Privacy Review	4/27/2017	7	0	6	1				
Entity Level Assessment	10/26/2017	7	0	6	1				
Integrated Work Order Management	1/24/2019	10	0	8	2				
Legal Operations	4/25/2019	4	0	4	0				
Occupational Safety and Health	4/25/2019	4	1	2	1				
Purchasing Card Internal Audit	7/25/2019	3	0	3	0				
Asset Management Assessment	1/23/2020	2	0	1	1				
SCADA ICS Review	10/22/2020	16	1	14	1				
Customer Billing and Collections Audit	10/22/2020	3	1	2	0				
	Total	63	4	52	7				

FY16 – FY20 Prior Audit Findings Status



¹ "Pending Testing" indicates that Management represents that the Action Plan is Completed, but Internal Audit has not yet performed testing to validate the status.

Note that the audit findings reported above only represent findings prior to FY21 with the status of "Pending Testing" or "Open". Audits conducted prior to FY21 for which all findings have been closed are not represented in this table. However, the pie chart to the right includes status of all audit findings FY16 – FY20.

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Color Key

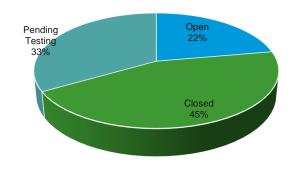
At least 1 original remediation target date has been extended



Status Update on Prior Audit Findings

Audit Report/Subject	Popert	Corrective Actions							
	Report Issue Date	Total	Open	Closed	Pending Testing ¹				
FY21 Audit Findings									
Work Order Management - DMS	1/28/2021	1	0	1	0				
Procurement Audit	4/22/2021	2	0	0	2				
Succession Planning Assessment	4/22/2021	1	1	0	0				
Remote Workforce Security Assessment	4/22/2021	2	0	0	2				
Contract Compliance Audit	7/22/2021	3	1	1	1				
PCS Review	10/28/2021	8	2	6	0				
Materials Management Audit	10/28/2021	1	0	0	1				
	Total	18	4	8	6				

FY21 Prior Audit Findings Status





¹ "Pending Testing" indicates that Management represents that the Action Plan is Completed, but Internal Audit has not yet performed testing to validate the status.

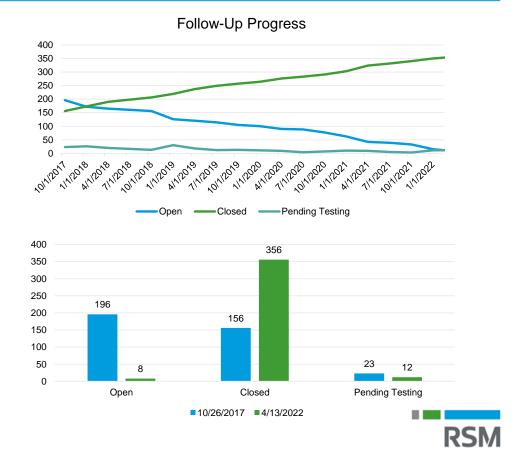
In total, 95% of all prior audit findings from FY14 – FY21 are closed.

⁹ Management's target closure rate is 90%.



Follow-up Summary

- For FY14 FY21 prior audit findings:
 - At the start of FY22 (October 2021), there were:
 - 33 open audit items
 - 340 closed audit items
 - 3 pending testing
 - As of April 2022, there are:
 - 8 open audit items
 - 356 closed audit items
 - 12 pending testing
- In total, 95% of all prior audit findings from FY14 – FY21 are closed
 - 16 audit items have been closed in FY22 to date.
 - Management is targeting 90% prior audit findings closure going forward

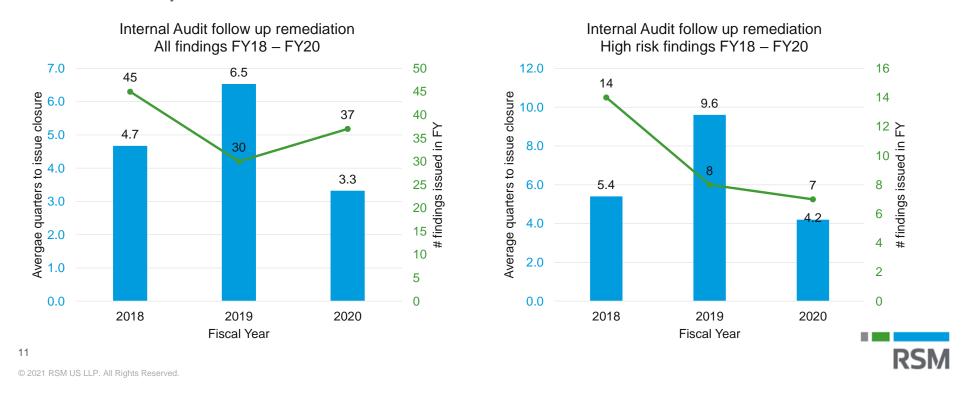


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Time to closure by fiscal year

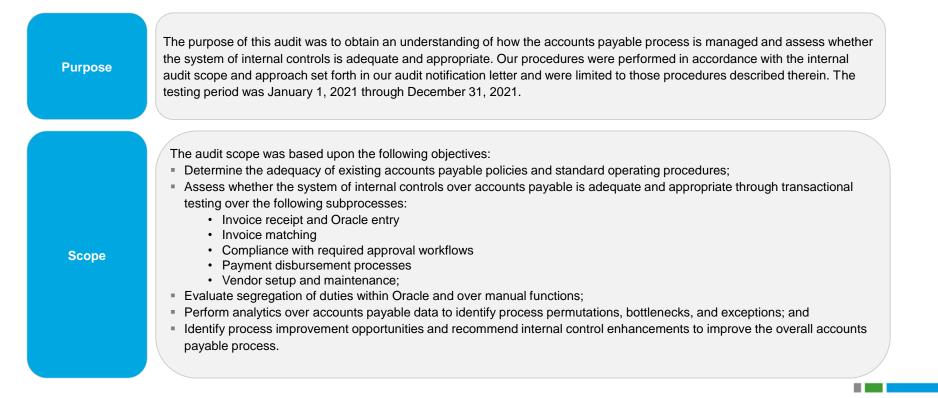
The below graphs illustrate the average number of quarters from audit finding issuance to audit finding closure year-overyear as of April 2022. Management has made significant improvements over the past year to achieve timelier audit finding closure as illustrated by the decline in time to close for FY20 audits.





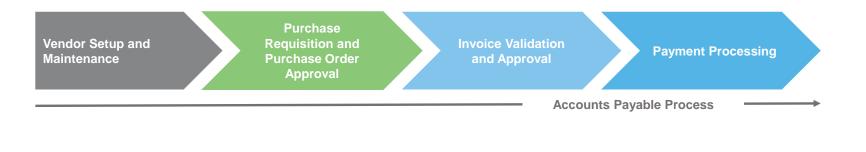


Accounts Payable



Accounts Payable

- Accounts Payable (AP) operates as a centralized function within the Finance and Budget department. Accounts Payable processes vendor payments, customer refunds, payments in lieu of taxes, utility costs, employee benefits, union dues, and other expenditures.
- DC Water implemented the Financials module of their new Enterprise Resource Planning system Oracle in October 2020.
- The AP process includes a system of internal controls designed over each of the subprocesses in the flowchart below:



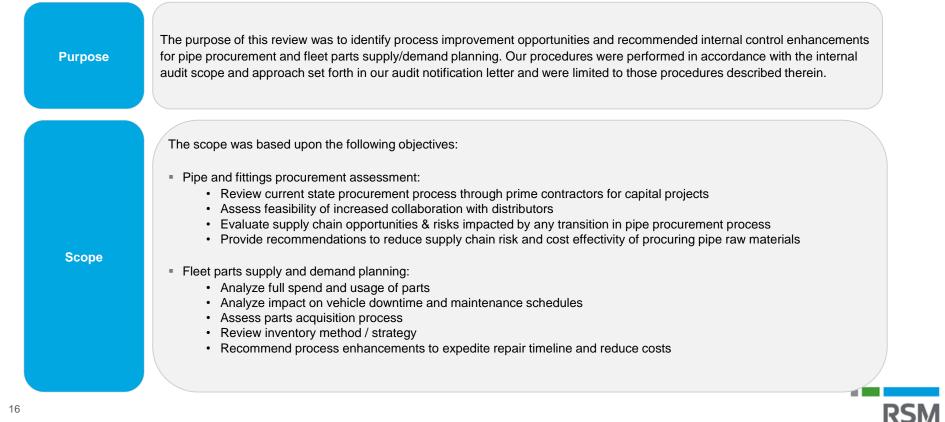
One moderate risk and two low risk findings are included in the full report.



SUPPLY CHAIN MANAGEMENT ASSESSMENT



Supply Chain



Supply Chain

Key takeaways from the management assessment are highlighted below:

Pipe and Fittings Procurement:

- DC Water currently outsources all material procurement to prime contractors for pipe replacement capital projects
- Material lead times have increased 1.6x since 2020 due to high demand and raw material constraints
- As a result of this assessment, we noted there are opportunities for reduction in overall project timelines, cost savings, decreasing material lead times, enhancing design and forecasting processes, and increasing competition in construction contracting through restructuring the current procurement model

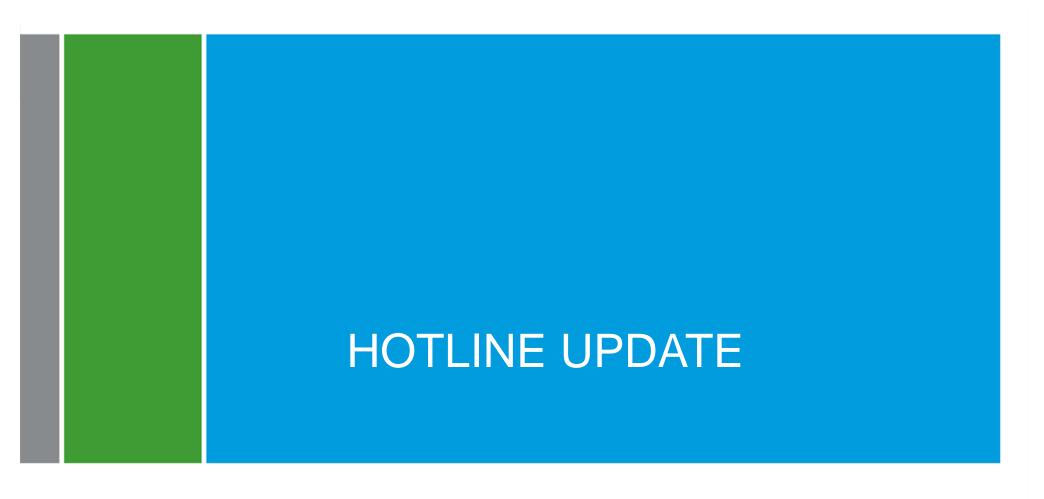


Fleet Parts Supply and Demand Planning:

- DC Water uses the FleetWave system for fleet and parts inventory management and reporting
- DC Water utilizes a third-party vendor, Parts Authority, to purchase all material required for maintenance and repairs
- Repair hours are exceeding annual service hours due to non-compliance with vehicle preventative maintenance schedules
- As a result of this assessment, the Fleet inventory management process was found to be designed effectively. It is believed to be a low-risk process for supply chain disruption based on Internal Audit's review of control design



Service to Repair Hours





Hotline Update

Seven new calls have been received since last Audit Committee meeting. As of 4/12/22:

FY 22 Hotline Call Summary	
FY 22 Calls Received	9
FY 22 Cases Closed	7
FY 22 Calls Open	2

Total calls by Fiscal Year:

Year	FY 13	FY 14	FY 15	FY 16	FY 17	FY 18	FY19	FY20	FY21
# of calls	10	20	16	36	31	21	28	10	7
Action Taken	0	2	7	7	2	0	1	0	0

*the numbers in the chart above may be inflated based on repeat calls regarding the same matters



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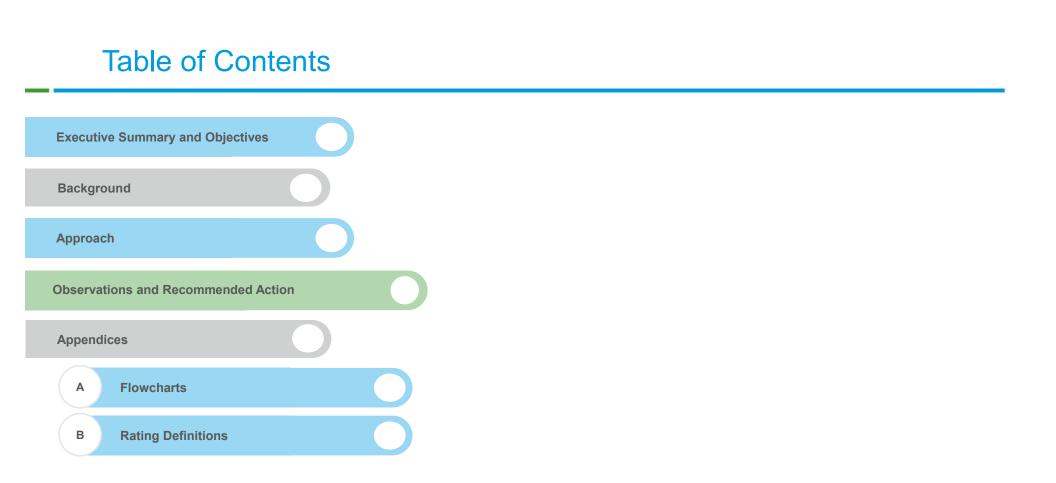
Audit and Risk Committee - 5. Internal Audit Update - Dan Whelan, RSM, Auditor General

DC WATER

Accounts Payable Internal Audit

April 2022





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Audit and Risk Committee - 5. Internal Audit Update - Dan Whelan, RSM, Auditor General



Executive Summary and Objectives

Objective and Scope

The purpose of this audit was to obtain an understanding of how the accounts payable process is managed and assess whether the system of internal controls is adequate and appropriate. Our procedures were performed in accordance with the internal audit scope and approach set forth in our audit notification letter and were limited to those procedures described therein. The testing period was January 1, 2021 through December 31, 2021. The audit scope was based upon the following objectives:

- Determine the adequacy of existing accounts payable policies and standard operating procedures;
- Assess whether the system of internal controls over accounts payable is adequate and appropriate through transactional testing over the following subprocesses:
 - Invoice receipt and Oracle entry
 - Invoice matching
 - Compliance with required approval workflows
 - Payment disbursement processes
 - Vendor setup and maintenance;
- · Evaluate segregation of duties within Oracle and over manual functions;
- Perform analytics over accounts payable data to identify process permutations, bottlenecks, and exceptions; and
- Identify process improvement opportunities and recommend internal control enhancements to improve the overall accounts payable process.

Fieldwork was performed February 2022 through March 2022.

Overall Summary and Highlights

There are no high-risk observations to report. There were three observations identified during our audit, which are summarized below:

- 1. Lack of Documented Policies and Procedures
- 2. Form 440 Purchase Requisition Approvals
- 3. Late Invoice Payment

These observations are described in the detailed observations section on pages 10 - 15 of the report. We assigned relative risk or value factors to each observation. Risk ratings are the evaluation of the perceived likelihood of an adverse event occurring and the potential impact an occurrence could have on the operations of each item. All observations require management action plans with estimated completion dates that will be included in the routine follow-up procedures for internal audit observations.

Summary of Observation Ratings (See Appendix for risk rating definitions)				
Number of Observations by Risk Rating				
High	Moderate	Low		
_	1	2		

We thank all DC Water team members who assisted us throughout this review.



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Background

Accounts Payable Function: DC Water and Sewer Authority (DC Water) has its accounts payable (AP) process as a centralized function within the Finance and Budget (FAB) department. Accounts Payable processes vendor payments, customer refunds, payments in lieu of taxes, utility costs, employee benefits, union dues, and other expenditures. The AP process includes controls designed to confirm payments are only made for goods and services that were ordered and received, and that the recipients of payments are vendors that have been appropriately approved and established in the Enterprise Resource Planning (ERP) system, Oracle. The AP division is staffed with one Manager who reports directly to the Controller, and five AP Specialists. The Procurement department oversees the setup, maintenance, and approval of vendors in Oracle. The FAB department oversees the approval process for purchase requisitions (PR) and purchase orders (PO), as well as the validation, processing and payment of invoices related to PRs and POs.

Vendor Setup and Maintenance: Vendor additions and changes are primarily made by the vendors themselves. Vendors follow a DC Water instructional document that details how to successfully add their profile within the system. Once the vendor has successfully set up their profile, approvals from the Compliance and Procurement departments are obtained through an automated Oracle system routing. Following approval, vendor profiles can be updated by designated vendor contacts or specified members of the Procurement department. In the future, vendors will be reminded twice a year, via formal communications and a supplier portal checklist, to update vendor data in the system.

Purchase Requisition and Purchase Order Approval: PRs are entered by requesting departments and routed for approval to the corresponding department leadership and then to the Budget team. Upon receipt of the necessary approvals, PRs are converted into POs, which are routed to the Procurement team for approval. Specific one-time purchases, however, do not require POs.



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Background (Continued)

Invoice Validation: Invoices are most commonly submitted by vendors via email (to <u>invoices@dcwater.com</u>), from which an OCR auto-populates invoice details within Oracle. AP reviews the invoice entry in the system against the original invoice and makes manual updates as necessary. The Requesting department "receives" the invoice to evidence confirmation of goods or services received (in the case of invoices containing physical inventory items, invoice is matched against the packing slip). AP performs a match between the invoice and the corresponding PO. After the match is complete and amounts received equal the amounts in the PO and invoice, Oracle pushes the invoice to validated status. For non-PO related invoices, approvals are routed to the AP manager for system approval in Oracle prior to validation.

Payment Processing: Payment runs are performed every Wednesday, one for each of the three main payment types: check, electronic (ACH), and wire. Payment methods for each vendor were transition from Lawson to Oracle in October 2020 as part of the implementation process. New vendors submit their payment information through the DC Water website, which is reviewed and approved by FAB. The AP Payment Supervisor reviews all invoices ready for payment and submits the Payment File Register to the Financial Controls team and various Finance Directors for review and approval. Check payments are printed by a third-party check printer and mailed to vendors. Oracle communicates with the bank to automatically make ACH and wire payments upon final approval.



Approach

Our audit approach consisted of the following phases:

Understanding of the Process

The purpose of this phase was to review policies and procedures, user access, segregation of duties, and any other key process information available to further our understanding of the accounts payable process. Internal Audit conducted walkthrough interviews with process owners and appropriate initiative and task owners to obtain a detailed understanding of operating functions and responsibilities related to accounts payable.

Detailed Testing

The purpose of this phase was to test internal controls related to accounts payable based on our understanding of all steps of the process from vendor setup to invoice payment. The time period covered by testing is January 1, 2021 through December 31, 2021.

- For the AP policies and procedures selected, Internal Audit confirmed the policy or procedure is properly documented and reviewed/updated on a periodic basis.
- For all changes to AP module user access in Oracle selected, Internal Audit confirmed the AP module access change is properly documented and authorized.
- For all periodic Oracle AP module user access reviews selected, Internal Audit confirmed the AP module user access review occurred, evidenced by confirmation email.
- For the Oracle user access listing, describing all users and their roles within the system, Internal Audit confirmed that the AP Specialists are not assigned the Payment Supervisor role in Oracle and the AP Specialists and the AP Manager do not have the capabilities to add, modify, or remove vendor information in Oracle.



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Approach (Continued)

Detailed Testing (continued)

- For all vendor additions and changes selected, Internal Audit confirmed that any vendor payment information changes are appropriate and supported.
- For all invoices selected, Internal Audit conducted the following testing:
 - Verified that the corresponding purchase requisition was approved by authorized personnel;
 - Verified that the corresponding purchase order was approved by authorized personnel;
 - · Verified that the invoice was received in Oracle by the requesting department;
 - Confirmed that the three-way match occurred prior to invoice payment evidenced by the Oracle AP approval on the Invoice Lifecycle Report;
 - Confirmed that the invoice entry in Oracle agrees to all supporting documentation (PO document, invoice document, etc.);
 - · Confirmed that the invoice amount does not exceed the amount identified in the PO; and
 - Confirmed that the invoice was paid within 30 days of invoice receipt.
- For all weekly payment batches selected, Internal Audit confirmed the payment batch was reviewed by the ERP System and Controls Manager and Finance Directors prior to disbursement.

Reporting

At the conclusion of the audit, we summarized our observations, recommended internal control enhancements, and reviewed the results of our testing with management.

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Audit and Risk Committee - 5. Internal Audit Update - Dan Whelan, RSM, Auditor General



Observation 1: Lack of Documented Policies and Procedures

Risk Rating: Moderate

Observation: Internal Audit noted that since the implementation of the new ERP system Oracle, DC Water has outdated documented policies and procedures regarding accounts payable functions, Oracle user access, periodic review of user access, and allowable emergency payment processing.

Root Cause Analysis: DC Water transitioned to Oracle effective October 2020 and developed desktop manuals for how to use the system. However, management is in the process of developing new policies and procedures but has not yet completed the development of the documents.

Impact Analysis: The risk associated with the lack of documented policies and procedures is inconsistent performance of processes and control activities.

Recommendation: Internal Audit recommends DC Water complete and institutionalize policies and procedures for AP functions to include roles and responsibilities, invoice approval process, emergency payment process, invoice payment goals, Oracle user access, periodic review of user access, etc.

Observation 1: Lack of Documented Policies and Procedures

Management Action Plan: Management currently is in the process of institutionalizing policies and procedures for AP functions to include roles and responsibilities, invoice approval process, emergency payment process, invoice payment goals, Oracle user access and periodic review of user access

Responsible Party: Finance & Procurement

Target Date: December 31, 2022



Observation 2: Form 440 Purchase Requisition Approvals

Risk Rating: Low

Observation: Invoice payments without POs have corresponding Form 440 Purchase Requisitions that are required to be approved prior to invoice payment. Form 440 PRs under \$500,000 require approval from a Director of Procurement, PRs between \$500,000 - \$1,000,000 require approval from the Vice President of Procurement, and PRs above \$1,000,000 require approval from the Board. Internal Audit noted that two out of three non-PO invoices selected for testing were under \$500,000 and missing the Director of Procurement's approval on the Form 440 PRs.

Root Cause Analysis: Accounts Payable processed invoices without Form 440 PRs containing all required approval signatures. There are instances in which DC Water has regularly recurring payments (i.e., Union dues) that have associated Form 440 PRs for which they bypass Procurement approval due to frequency of processing. Procurement is comfortable with the current process, but it is not formalized in any policy/procedure document.

Impact Analysis: The risks associated with lack of proper Form 440 PR approval signatures include non-compliance with DC Water policies, potential disbursement of unauthorized/improper payments, and committing funds that aren't supported by an approved budget. However, the Form 440 PRs that were missing approval signatures within our testing were considered acceptable by the Procurement function which mitigates the potential impact.

Recommendation: Internal Audit recommends reevaluating the approval requirements for Form 440 PRs to confirm appropriateness. Additionally, Internal Audit recommends DC Water include requirements and allowable exceptions within a formal policy/procedure and enforce required approvals prior to payment processing.



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Observation 2: Form 440 Purchase Requisition Approvals

Management Action Plan: Procurement states they do not need to sign 440s for regular payments such as union dues and employee benefits. Accounts Payable will change the process for making such payments.

Responsible Party: Accounts Payable

Target Date: June 30, 2022



Observation 3: Late Invoice Payment

Risk Rating: Low

Observation: District of Columbia Municipal Regulations Title 1, Chapter 1707.2 requires payment to be made by the 30th day after the receipt of a proper invoice by the designated payment officer for all other goods and services. Additionally, DC Water has an internal policy requiring invoices to be paid within 30 days of receipt of a proper invoice. Internal Audit noted that one of 25 invoices was not paid within 30 days of the invoice receipt date. The invoice was entered into Oracle on August 12, 2021 and paid on September 29, 2021. Note that during FY21 (year one of the new ERP system), DC Water paid 94% of invoices within 30 days of receipt.

Root Cause Analysis: The receiving department did not accept the invoice until 47 days after invoice submission. As a result, the invoice was not paid until the day after the invoice was approved by the receiving department, which was outside of the 30-day requirement. Oracle was implemented in October 2020 and the receiving function within the system required by departments is different than how the previous ERP operated. FY21 was a transition year and delays resulted from the adjustment to the use of Oracle.

Impact Analysis: The risks associated with late invoice payments include non-compliance with DC Water AP policy, potential late fees or interest, and strained vendor relationships.

Recommendation: We recommend DC Water continue to track AP on-time payment metrics and working towards their goal of paying 97% of its invoices within 30 days of receipt.



Observation 3: Late Invoice Payment

Management Action Plan: Management has established Internal Review Committee (IRC) to review and track AP on-time payment metrics and to ensure that management is meeting the goal of paying 97% of its invoices within 30 days of receipt.

Responsible Party: Finance & Procurement

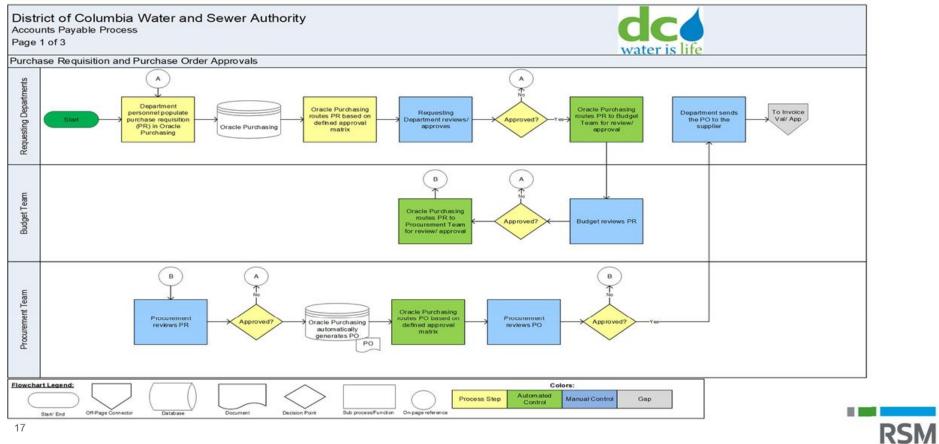
Target Date: Ongoing



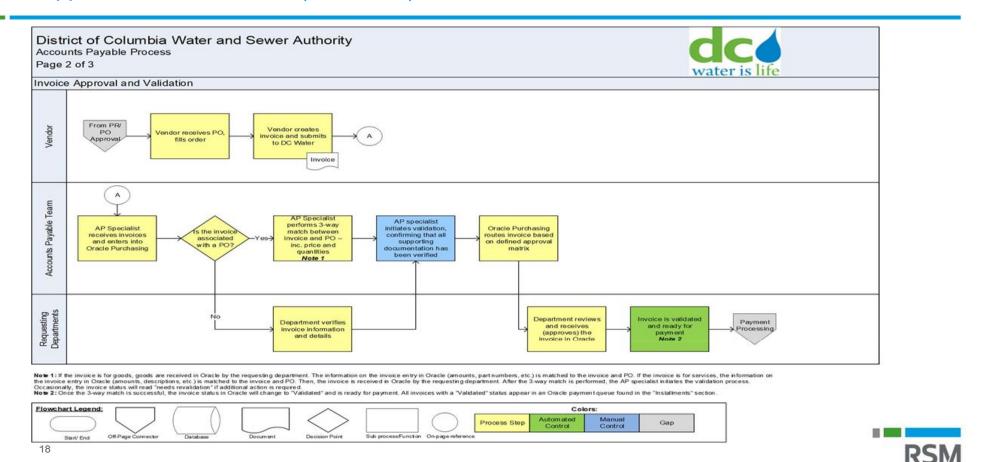
Audit and Risk Committee - 5. Internal Audit Update - Dan Whelan, RSM, Auditor General



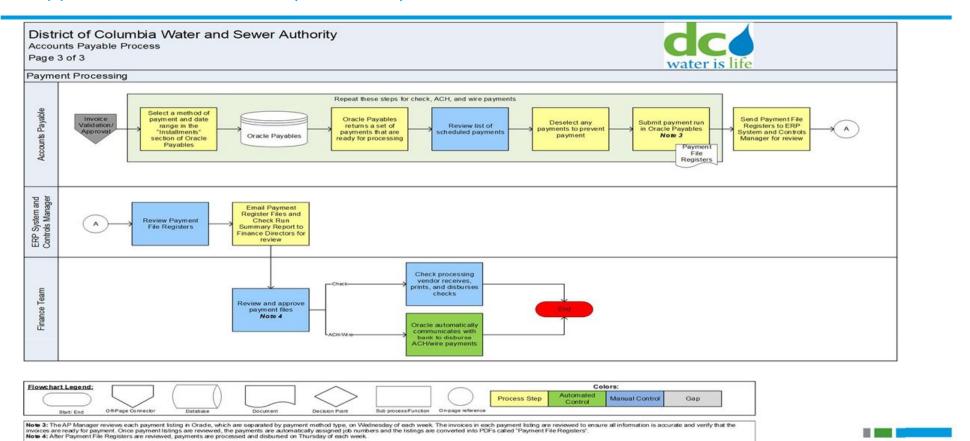
Appendix A – Flowcharts



Appendix A – Flowcharts (continued)



Appendix A – Flowcharts (continued)



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RSM

Appendix – Rating Definitions

RSM defined observations based on the following risk rating definitions:

Observation Risk Rating Definitions				
Rating	Definition			
Low	Observation presents a low risk (i.e., impact on financial statements, internal control environment or business operations) to the organization for the topic reviewed and/or is of low importance to business success/achievement of goals. Action should be taken within 12 months (if related to external financial reporting, must mitigate financial risk within two months unless otherwise agreed upon).			
Moderate	Observation presents a moderate risk (i.e., impact on financial statements, internal control environment or business operations) to the organization for the topic reviewed and/or is of moderate importance to business success/achievement of goals. Action should be taken within nine months (if related to external financial reporting, must mitigate financial risk within two months).			
High	Observation presents a high risk (i.e., impact on financial statements, internal control environment or business operations) to the organization for the topic reviewed and/or is of high importance to business success/achievement of goals. Action should be taken immediately, but in no case should implementation exceed six months (if related to external financial reporting, must mitigate financial risk within two months).			



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