## Market to Cost Comparison of Service Company Charges to **New Jersey American Water Company**

12 Months Ended March 31, 2017

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# New Jersey American Water Company Market to Cost Comparison of Service Company Charges 12 Months Ended March 31, 2017

## Table of Contents

	<u>Page</u>
I – Introduction Purpose of This Study Study Results	1
<ul> <li>II – Background         Overview of American Water Service Company         Service Company Accounting         Service Company Billing and Clearing     </li> </ul>	3
III – Service Company Cost Comparison Approach Service Company Test Period Charges Service Company Cost Comparison Approach	7
<ul> <li>IV – Question 1 – Reasonableness of Service Company Charges         Methodology         NJAW's Service Company A&amp;G Cost per Customer         Comparison Group Cost per Customer</li> </ul>	9
V – Question 2 – Provision of Services at Lower of Cost or Market Methodology Service Company Hourly Rates Outside Service Provider Hourly Rates Service Company versus Outside Provider Cost Comparison	13
VI – Question 3 – Reasonableness of Customer Accounts Services Costs Background Comparison Group NJAW's Cost per Customer Electric Utility Group Cost per Customer Summary of Results	31
VII – Question 4 – Need for Service Company Services Analysis of Services Governance Practices Associated with Service Company Charge	39 es

### **Purpose of This Study**

This study was undertaken to answer four questions concerning the services provided by American Water Works Service Company, Inc., (Service Company) to New Jersey American Water Company (NJAW):

- 1. Were the Service Company's charges to NJAW during the 12 months ended March 31, 2017 reasonable?
- 2. Was NJAW charged the lower of cost or market for managerial and professional services provided by the Service Company during the 12 months ended March 31, 2017?
- 3. Were 12 months ended March 31, 2017 costs of Service Company's customer accounts services, including those of the National Call Centers, comparable to those of other utilities?
- 4. Are the services NJAW receives from the Service Company necessary?

#### Study Results

Concerning question 1, the following conclusion was reached:

• The Service Company's 2016 cost per NJAW customer is reasonable compared to costs per customer for electric and combination electric/gas service companies. During the 12 months ended March 31, 2017 NJAW was charged \$58 per customer for administrative and general (A&G)-related services provided by the Service Company. This compares to an average of \$113 per customer for service companies reporting to the Federal Energy Regulatory Commission (FERC). Nineteen of the 25 utility service companies that filed a FERC Form 60 for 2016 had higher per customer A&G costs than NJAW's charges from the Service Company.

Concerning question 2, the following conclusions were drawn from this study:

- NJAW was charged the lower of cost or market for managerial and professional services during the 12 months ended March 31, 2017.
- On average, the hourly rates for outside service providers are 36% higher than the Service Company's hourly rates.
- The managerial and professional services provided by the Service Company are vital and could not be procured externally by NJAW without careful supervision on the part of NJAW. If these services were contracted entirely to outside providers, NJAW would have to add at least three positions to manage activities of outside firms. These positions would be necessary to ensure the quality and timeliness of services provided.
- If all the managerial and professional services now provided by the Service Company had been outsourced during the 12 months ended March 31, 2017, NJAW and its ratepayers would have incurred almost \$16.2 million in additional expenses. This amount includes the higher cost of outside providers and the cost of three NJAW positions needed to direct the outsourced work.
- This study's hourly rate comparison actually understates the cost advantages that accrue to NJAW from its use of the Service Company. Outside service providers generally bill for



every hour worked. Service Company exempt personnel, on the other hand, charge a maximum of 8 hours per day even when they work more hours. If all overtime hours of Service Company personnel were factored into the hourly rate calculation, the Service Company would have had an even greater annual dollar advantage than the \$16.2 million cited above.

- It would be difficult for NJAW to find local service providers with the same specialized water and wastewater industry expertise as that possessed by the Service Company staff. Service Company personnel spend substantially all their time serving operating water and wastewater companies. This specialization brings with it a unique knowledge of water and wastewater utility operations and regulation that is most likely unavailable from local service providers.
- Service Company fees do not include any profit markup. Only its actual cost of service is being recovered from NJAW ratepayers.

Concerning question 3, the following conclusion was reached:

 The cost of the Service Company's customer accounts services, including those provided by the National Call Centers, is well below the average of the neighboring electric utility comparison group. As will be explained further herein, this group of companies provides a reasonable proxy group for comparison to a regulated utility of the size and scope of the Service Company and NJAW. During the 12 months ended March 31, 2017, the cost of customer accounts services for NJAW customers was \$20.92 compared to the 2016 average of \$48.58 for neighboring electric utilities. The highest comparison group percustomer cost was \$103.52 and the lowest \$12.71.

Concerning question 4, the following conclusions were drawn:

- The services that the Service Company provides are necessary and would be required even if NJAW were a stand-alone water and wastewater utility.
- Furthermore, there is no redundancy or overlap in the services provided by the Service Company to NJAW. For all of the services provided (Exhibit 13), there was only one entity primarily responsible for the service.

### Overview of American Water Works Service Company

American Water's Service Company exists to provide certain shared services to American Water subsidiaries. It follows a service company model used by many utility holding companies that own multiple regulated utilities. By consolidating executive and professional services into a single service company, utility holding companies are able to realize the following benefits for ratepayers:

- Purchasing Economies Common expenses (e.g., insurance, chemicals, piping) can be procured on a much larger scale, thereby providing greater bargaining power for the combined entity compared to individual utility operating companies. A service company facilitates corporate-wide purchasing programs through its procurement and contract administration functions.
- Operating Economies of Scale A service company is able to deliver services more efficiently because workloads can be balanced across more persons and facilities. For instance, American Water's Service Company is able to maintain one principal data center for the entire corporation. This is much more cost-efficient than each operating utility funding its own data center with large fixed hardware, software and staffing costs.
- Continuity of Service Centralizing service company personnel who perform similar services facilitates job cross-training and sharing of knowledge and expertise. This makes it easier to deal with staff turnover and absences and to sustain high levels of service to operating utilities. An individual operating utility might experience considerable disruption if a key professional left and it were necessary to hire outside to fill the vacancy.
- Maintenance of Corporate-Wide Standards Personnel in American Water's Service Company establish standards for many functions (e.g., engineering designs, operating procedures and maintenance practices). It is easier to ensure these standards are followed by every operating utility because their implementation is overseen by the Service Company.
- Improved Governance American Water's Service Company provides another dimension of management and financial oversight that supplements local operating utility management. The Service Company facilitates standard planning and reporting, which helps ensure that operating utilities meet the requirements of their customers in a costeffective manner.
- Retention of Personnel A service company organization provides operating utility personnel with another career path beyond what may be available on a local level. These opportunities tend to improve employee retention.

American Water follows the model for other utility service companies in another important regard: Its services are provided to affiliate operating utilities, like NJAW, at cost. American Water's Service Company is not a profit-making entity. It assigns only its actual expenses to the American Water subsidiaries it services.



The Service Company provides services to American Water operating companies from the following locations:

- Corporate Headquarters Provides corporate governance and service functions, including executive management, finance, external affairs, human resources and benefits. The corporate headquarters is located in Voorhees, New Jersey.
- Central Lab The national trace substance laboratory is located in Belleville, Illinois and performs testing for all American Water operating companies.
- Customer Service Centers Provides customer call center and billing services from two locations: Alton, Illinois and Pensacola, Florida,
- Customer Relations Centers Provides customer relations and field resource coordination services from two locations: Belleville, Illinois and Wilkes Barre, Pennsylvania.
- Hershey Technology & Innovation Services Center American Water's principal data center, located in Hershey, Pennsylvania, supports the IT infrastructure required to run corporate and operating company business applications and communications systems.
- Haddon Heights Technology & Innovation Services Center American Water's data center, located in Haddon Heights, New Jersey maintains data servers for back-up and disaster recovery.
- Mount Laurel Office Provides corporate service functions, including engineering and supply chain services. The office is located in Mount Laurel, New Jersey.
- Woodcrest Office The Woodcrest Office, located in Cherry Hill, New Jersey provides individual operating companies with accounting, audit, tax, regulatory and security services. The Woodcrest office, American Water's main Technology & Innovation Services (T&I) center for employees, provides software delivery and enhancements for SAP and non-SAP (legacy) systems, provides local on-site support as well as the T&I Service Desk for remote assistance for all employees using personal computers in the performance of their day to day activities, supports mission-critical systems such as SCADA as well as emerging technologies such as geographic information systems and mobility, and provides technical expertise in project governance and release management while ensuring compliance with all governmental regulations.
- Regional Support Services Operating companies are provided with certain support services that are delivered more effectively on a regional basis because individual operating company workloads are not sufficient to warrant maintaining their own full-time staff for these activities. These services require closer proximity to operating companies and therefore are located closer to the operating companies the employees provide service to instead of one of the corporate locations.

## Service Company Accounting

Service Company maintains an accounting ledger for recording transactions (e.g., labor, expenses. overhead, capital and other assets, liabilities and equity) in a Service Company ledger separate from Affiliates' ledgers. Monthly financial statements are prepared that summarize month-to-date and year-to-date costs, budgets and prior year, with variances and explanations, by category and function. Accounting categories by transaction type are described below.

- Service Company Labor: The Service Company utilizes a system that tracks time and attendance. Employees electronically enter hours worked (including vacation, sick, family leave, etc.) and accounting information (e.g., business unit; formula; pay type) and electronically submit the timesheet for approval. Submitted timesheets are electronically routed to authorized approvers. Time sheets require approval (of hours and accounting information such as formulas, etc.) by an authorized timesheet approver in the employee's home business unit.
- Service Company Expenses: Expenditures (i.e., standard invoices, purchase orders, electronic disbursements, Miscellaneous Invoices, Recurring Invoices, Recurring Vouchers, and procurement cards) and journal entries require a preparer to enter accounting coding details (e.g., cost center, cost element and work breakdown structure) and a reviewer to approve the information in accordance with the corporate Delegation of Authority Policy. Expenditures are processed electronically and are automatically routed to the employee's supervisor for approval. Costs are posted many times daily, in detail, in the business unit selected. Journal entries are submitted as prepared to the appropriate reviewer and posted as approved.
- Service Company Assets: Service Company assets are procured directly by Service Company or through a capital leasing arrangement with Laurel Oak Properties (LOP). Service Company capitalizes these LOP leases as Non-Utility Plant assets in accordance with generally accepted accounting principles. Generally speaking, Service Company assets (including hardware, servers, laptops, desktops, servers, storage racks, furniture, laboratory and test equipment, security cameras, monitors, and leasehold improvements) are acquired through LOP via a capital lease. LOP, on behalf of the Service Company, will acquire the necessary materials and services to build the assets that are needed for the Company to meet its business needs.
- Service Company Overhead: Costs for support personnel (e.g., administrative assistants, mailroom clerks), rents, facility expenses, pension, medical insurance, taxes, general office supplies and other similar expenses are recorded in the ledger of the cost center responsible for incurring the charge. Overhead expenditures are posted using the labor and expense processes noted above, and are recorded, in detail, in the ledger of the cost center responsible for the charge using an overhead Work Breakdown Structure (WBS) element.

#### Service Company Billing and Clearing

Service Company has developed a billing system which charges directly or allocates costs for services provided to Affiliates. Service Company billing is processed monthly and includes all Service Company costs charged to Affiliates using the WBS element selected for each transaction.

WBS element: Every Service Company transaction (vouchers, journal entries, payroll batch, etc.) requires a WBS element within the account coding string. Each WBS element is configured in SAP with the following: Affiliate(s) to be charged, percent of charge to be billed to each Affiliate (total must equal 100%), receiving object (e.g., Affiliate's cost center xx0000) for O&M costs or an Affiliate's WBS element for Capex Costs. WBS elements are configured in SAP with an end date (month/year) to prevent transactions from using an expired WBS during data input.

- Affiliate Billing Process: Service Company billing is a two-step process that first calculates allocations of transactions for all non-overhead WBS elements. The second step calculates overhead transaction allocations using the ratio of direct labor (Cost Element 5012000) allocations to Affiliates from the first step above multiplied by the pool of overhead expenses by physical location.
- Bill Clearing Process: Service Company billings are cleared through American Water Capital Corporation, Inc., (an Affiliate) monthly via an intercompany journal entry to GL Account 23120000 (Notes Payable - Associated Companies) posted on the last day of the month. Payments are estimated for each Affiliate using the prior month actual billing (current month estimate) with adjustment for prior month actual to estimate (previous month funding) true-up.



### **Service Company Test Period Charges**

During the 12 months ended March 31, 2017, the Service Company billed NJAW a total of approximately \$51 million, as shown in the table below. These charges were subjected to a market to cost comparison.

> Management Fees - O&M Management Fees - Capital **Total Service Company Charges**

N	March 31, 2017
\$	41,065,179
\$	9,955,796
\$	51,020,974

12 Months Ended

For purposes of comparing these charges to certain outside benchmarks, Service Company services were placed into two categories:

- Managerial and Professional Services Includes such services as management, accounting, legal, human resources, information technology and engineering.
- Customer Accounts Services Includes customer-related services, such as call center, credit, billing, collection and payment processing.

Total 12 months ended March 31, 2017 Service Company dollar and hour charges break down between management/professional services and customer account services as follows:

> Management and Professional Services **Customer Account Services Total Service Company Charges**

	March 31	, 2017
	Amount	Hours
\$	43,408,998	218,973
\$	7,611,976	160,744
\$	51,020,974	379,717

12 Months Ended

### Service Company Cost Comparison Approach

This study's first question—whether the Service Company 12 months ended March 31, 2017 charges were reasonable—was determined by comparing NJAW's A&G-related Service Company charges per regulated retail customer to the same charges for utility companies that must file the Federal Energy Regulatory Commission (FERC) Form 60 – Annual Report of Service Companies.

The second question—whether the Service Company charges during the 12 months ended March 31, 2017 were at the lower of cost or market—was evaluated by comparing the cost per hour for managerial and professional services provided by Service Company personnel to hourly billing rates that would be charged by outside providers of equivalent services. Service Company costs per hour were based on actual charges to NJAW during the 12 months ended March 31, 2017. Outside providers' billing rates came from surveys or other information from professionals who could perform the services now provided by the Service Company.

The third question—whether Service Company's 12 months ended March 31, 2017 customer account services charges, including National Call Center costs, were comparable to other utilities was addressed by comparing NJAW's customer accounts services expenses to those of neighboring investor-owned electric utilities. This utility comparison group was selected because the cost of outside providers of customer accounts services is proprietary and not publicly available. Comparison to electric utilities is appropriate because all utilities, regardless of service type, must perform customer account services activities, including updating customer records for meter reads, printing and mailing bills, and the collection and processing of customer payments. Electric utility costs are available from the FERC Form 1; thus, there is appropriate data transparency. The selection of electric utilities from New Jersey and neighboring states provides a sufficiently sized comparison group.

The fourth question—the necessity of Service Company services—was investigated by defining the services provided to NJAW and determining if these services would be required if NJAW were a stand-alone utility.

## Methodology

Utility service companies deliver a variety of services. Some support their regulated utility affiliate's operations-related functions (e.g., transmission, distribution). All utility service companies, however, provide A&G services to their affiliates. This is true because there are considerable economies of scale derived from centralizing the management of corporate A&G services such as technology and innovation, finance and human resources. Because A&G-related services are consistently delivered by utility service companies, this study uses A&G charges per customer as the metric by which to test the reasonableness of affiliate charges.

#### NJAW's Service Company A&G Cost per Customer

During the 12 months ended March 31, 2017 NJAW was charged \$58 per customer by the Service Company for A&G-related services. The calculation of this amount, shown in the table below, starts with total Service Company charges and adjusts for capital and non-A&G function (e.g., engineering, operations and water quality) charges. These adjustments are necessary to develop a per-customer cost that can be compared to the cost of the utility service company comparison group.

	12 Months Ended				
	Ma	rch 31, 2017			
Total Service Company Charges	\$	51,020,974			
Less: Capital Charges	\$	(9,955,796)			
Less: Non-A&G Charges					
Engineering	\$	(738,135)			
Operations	\$	(784,142)			
Water Quality	\$	(736,983)			
Net A&G Service Company Charges	\$	38,805,918			
NJAW Customer Count		670,704			
NJAW A&G SC Charges per Customer	\$	58			

#### **Comparison Group Cost Per Customer**

Every centralized service company in a holding company system subject to regulation by the FERC must file a Form 60 in accordance with the Public Utility Holding Company Act of 2005, Section 1270, Section 390 of the Federal Power Act, and 18 Code of Federal Regulations paragraph 366.23. This report is designed to collect financial information from service companies that are subject to regulation by the FERC.

Charges to utility affiliates for the comparison group service companies were obtained from Schedule XVI - Analysis of Charges for Service Associate and Non-Associate Companies (p. 303 to 306) of each entity's FERC Form 60. Information from Form 60 schedule Account 457 – Analysis of Billing - Associate Companies was also used to isolate and eliminate charges to non-regulated affiliates from the cost pool used to calculate A&G expenses per regulated service customer.

For 2016, a Form 60 was filed by service companies associated with 24 utility holding companies. These service companies support utilities that provide regulated electric and, in some cases, gas service to retail customers.

FERC Form 60 shows service company charges to affiliates by FERC account. The table below shows a list of FERC A&G accounts and designates which correspond to services the Service Company provides to NJAW. Amounts in the designated FERC accounts are included in the calculation of service company A&G expenses per regulated customer.

	Included In
FERC Account	Cost Calculation
901 - Supervision	X
902 - Meter reading expenses	
903 - Customer records and collection expenses	X
904 - Uncollectible accounts	
905 - Miscellaneous customer accounts expenses	X
907 - Supervision	
908 - Customer assistance expenses	
909 - Informational And Instructional Advertising Expenses	
910 - Miscellaneous Customer Service And Informational Exp	X
911 - Supervision	
912 - Demonstrating and Selling Expenses	
913 - Advertising Expenses	
916 - Miscellaneous Sales Expenses	
920 - Administrative and General Salaries	X
921 - Office Supplies and Expenses	Χ
923 - Outside Services Employed	X
924 - Property Insurance	X
925 - Injuries and Damages	
926 - Employee Pensions and Benefits	X
928 - Regulatory Commission Expenses	
930.1 - General Advertising Expenses	
930.2 - Miscellaneous General Expenses	X
931 - Rents	X
935 - Maintenance of Structures and Equipment	Х

The A&G expenses per regulated utility customer for the 24 utility companies that filed a Form 60 for 2016 are calculated in Exhibit 1 (page 11).

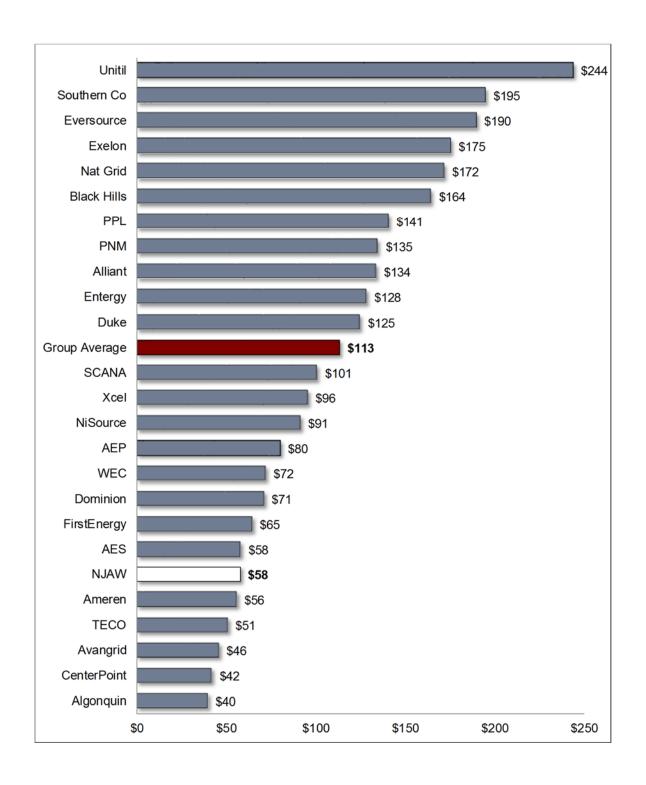
Exhibit 2 (page 12) shows NJAW's 2016 Service Company cost per customer of \$58 to be lower than the average of \$113 per customer for the comparison group service companies. Nineteen of the 24 comparison group service companies had higher per customer A&G costs than NJAW's charges from the Service Company. Based on this result, it is possible to conclude that the Service Company's 12 months ended March 31, 2017 charges to NJAW were reasonable.

## New Jersey American Water Company Calculation of 2016 Service Company A&G Expenses Per Customer

	2016 Regulated			
	Retail Service	Regulated		
	Company A&G	Retail	Co	ost per
Utility Company	Expenses	Customers	Cu	stomer
AEP	\$433,313,931	5,400,000	\$	80
AES	\$58,663,877	1,009,000	\$	58
Algonquin	\$23,885,200	600,500	\$	40
Alliant	\$182,987,437	1,370,076	\$	134
Ameren	\$184,181,111	3,300,000	\$	56
Avangrid	\$145,553,643	3,172,000	\$	46
Black Hills	\$203,616,462	1,239,260	\$	164
CenterPoint	\$245,306,300	5,842,684	\$	42
Dominion	\$277,327,834	3,900,000	\$	71
Duke	\$1,136,152,264	9,110,000	\$	125
Entergy	\$393,237,567	3,067,000	\$	128
Eversource	\$699,338,919	3,686,770	\$	190
Exelon	\$1,770,709,227	10,100,000	\$	175
FirstEnergy	\$390,769,523	6,058,000	\$	65
Nat Grid	\$1,184,685,168	6,900,000	\$	172
NiSource	\$356,829,243	3,900,000	\$	91
PNM	\$102,422,613	761,000	\$	135
PPL	\$379,491,254	2,700,000	\$	141
SCANA	\$208,138,095	2,066,076	\$	101
Southern Co	\$895,860,225	4,600,000	\$	195
TECO	\$81,660,360	1,605,000	\$	51
Unitil	\$44,905,616	184,200	\$	244
WEC	\$315,718,739	4,374,000	\$	72
Xcel	\$535,156,753	5,600,000	\$	96
Total	\$10,249,911,360	90,545,566	\$	113



## New Jersey American Water Company Comparison of Service Company A&G Expenses Per Customer



## Methodology

The lower-of-cost-or-market comparison is accomplished by comparing the cost per hour for Service Company managerial and professional services to those of outside service providers to whom these duties could be assigned. Based on the nature of the Service Company services, it was determined that the following outside providers could perform the categories of services indicated below:

- Management Consultants executive and administrative management, risk management, human resources and communications services
- Attorneys legal services
- Certified Public Accountants accounting, financial and rates and revenues services
- T&I Professionals information technology services
- Professional Engineers engineering, operations and water quality services.

The services provided by the Belleville lab are assumed to be transferable to professional engineers for purposes of this cost comparison. This was done for two reasons. First, there is no readily available survey of hourly billing rates for testing services such as those performed by Belleville. Second, Belleville personnel have similar scientific educational backgrounds as Service Company engineering personnel. Thus, it is appropriate to compare the hourly rates of Belleville services to those of outside engineering firms.

Service Company's hourly rates were calculated for each of the five outside service provider categories, based on the dollars and hours charged to NJAW during the 12 months ended March 31, 2017. Hourly billing rates for outside service providers were developed using third party surveys or directly from information furnished by outside providers themselves.

It should be noted that by using the Service Company's hours charged NJAW during the 12 months ended March 31, 2017, its hourly rates are actually overstated because some Service Company personnel charge a maximum of 8 hours per day even when they work more. Outside service providers generally bill for every hour worked. If all overtime hours of Service Company personnel had been factored into the hourly rate calculation, Service Company hourly rates would have been lower.

The last step in the lower-of-cost-or-market comparison was to compare the Service Company's average cost per hour to the average cost per hour for outside providers.

#### **Service Company Hourly Rates**

Exhibit 3 (page 15) details the assignment of 2016 management and professional Service Company charges by outsider provider category. Exhibit 4 (page 16) shows the same assignment for Service Company management and professional hours charged to NJAW during the 12 months ended March 31, 2017.

Certain adjustments to these dollar amounts were necessary to calculate Service Company hourly rates that are directly comparable to those of outside providers. Adjustments were made to the following 12 months ended March 31, 2017 test period non-labor Service Company charges:

- Contract Services Twelve months ended March 31, 2017 Service Company charges to NJAW include expenses associated with the use of outside professional firms to perform certain corporate-wide services (e.g., legal, financial audit, actuarial services). These professional fees are excluded from the Service Company hourly rate calculation because the related services have effectively been out-sourced already.
- Travel Expenses In general, client-related travel expenses incurred by outside service providers are not recovered through their hourly billing rates. Rather, actual out-of-pocket travel expenses are billed to clients in addition to fees for professional services. Thus, it is appropriate to remove these Service Company charges from the hourly rate calculation.
- T&I Infrastructure Expenses Included in the 12 months ended March 31, 2017 Service Company charges to NJAW are leases, maintenance fees and depreciation related to American Water's enterprise computing and network infrastructure and corporate business applications. An outside provider that would take over operation of this infrastructure would recover these expenses over and above the cost of personnel necessary to operate the data center.
- Non-Service Related Expenses These are corporate expenses such current and deferred income tax expense, line of credit fees and board expenses. These are not related to the provision of services by Service Company personnel and have been excluded.

Exhibit 5 (page 17) shows how contract services, travel expenses, T&I infrastructure and nonservice-related Service Company charges are assigned to the four outside provider categories.

Based on the assignment of expenses and hours shown in Exhibits 2 and 3 and the excludable items shown in Exhibit 4, the Service Company's equivalent costs per hour for the 12 months ended March 31, 2017 are calculated below.

			N	Management		rtified Public		T&I	Professional			
		Attorney		Consultant		ccountant	Р	rofessional		Engineer		Total
Total management, professional	\$	2,548,074	\$	13,888,640	\$	6,016,154	\$	17,071,177	\$	3,884,953	\$	43,408,998
& technical services charges												
Less: Exclusions												
Contract services	\$	328,025	\$	853,102	\$	614,712	\$	5,850,679	\$	74,789	\$	7,721,308
Travel expenses	\$	22,048	\$	55,119	\$	30,507	\$	69,620	\$	26,380	\$	203,674
IT infrastructure expenses	\$	1,097	\$	3,522,128	\$	37,016	\$	1,847,848	\$	39,713	\$	5,447,802
Non-service related expenses	\$	205,054	\$	1,353,257	\$	89,269	\$	274,909	\$	248,076	\$	2,170,564
Total Exclusions	\$	556,223	\$	5,783,606	\$	771,505	\$	8,043,056	\$	388,959	\$	15,543,349
Net Service-Related Charges (A)	\$	1,991,850	\$	8,105,034	\$	5,244,649	\$	9,028,121	\$	3,495,994	\$	27,865,649
Total Hours (B)		7,304		37,759		56,746		77,852		39,312		218,973
Average Hourly Rate (A / B)	\$	273	\$	215	\$	92	\$	116	\$	89		

## New Jersey American Water Company <a href="Analysis of 12 Months Ended March 31">Analysis of 12 Months Ended March 31</a>, 2017 Service Company Charges by Location and Function

			12 Months Ended March 31, 2017 Service Company Charges										
					nagement		fied Public		T&I		fessional		
Location	Function	F	Attorney	C	onsultant	Ac	countant	Pro	ofessional		ngineer		Total
Belleville Lab	Water Quality									\$	750,847	\$	750,847
Call Center	Human Resources			\$	75,032							\$	75,032
Corporate	Accounting					\$	2,024,704					\$	2,024,704
	Administration			\$	7,116,831							\$	7,116,831
	Audit					\$	373,450					\$	373,450
	Business Development			\$	587,469							\$	587,469
	Communications			\$	652,217							\$	652,217
	Engineering									\$	3,134,085	\$	3,134,085
	External Affairs			\$	401,582							\$	401,582
	Finance					\$	2,029,384					\$	2,029,384
	Human Resources			\$	2,587,849							\$	2,587,849
	Information Technology							\$	622,525			\$	622,525
	Legal	\$	1,473,803									\$	1,473,803
	Operations			\$	847,911							\$	847,911
	Procurement					\$	792,066					\$	792,066
	Rates & Regulatory			\$	141,322							\$	141,322
	Risk Management			\$	243,523							\$	243,523
Division Offices	Administration			\$	1,043,076							\$	1,043,076
	Business Development			\$	40,560							\$	40,560
	Engineering									\$	20	\$	20
	External Affairs			\$	133,821							\$	133,821
	Finance					\$	418,882					\$	418,882
	Human Resources			\$	17,446							\$	17,446
	Legal	\$	1,074,271									\$	1,074,271
	Rates & Revenue					\$	377,667					\$	377,667
Info Technology	Information Technology							\$	16,448,653			\$	16,448,653
Total	Dollars Charged	\$	2,548,074	\$	13,888,640	\$	6,016,154	\$	17,071,177	\$	3,884,953	\$	43,408,998

## New Jersey American Water Company <a href="Analysis of 12 Months Ended March 31">Analysis of 12 Months Ended March 31</a>, 2017 Service Company Hours by Location and Function

			12 Months	s Ended March 31, 2	017 Service Comp	any Hours	
Location	Function	Attorney	Management Consultant	Certified Public Accountant	T&I Professional	Professional Engineer	Total
Belleville Lab	Water Quality					6,544	6,544
Call Center	Human Resources		993				993
Corporate	Accounting			24,099			24,099
	Administration		3,752				3,752
	Audit			2,226			2,226
	Business Development		1,987				1,987
	Communications		4,735				4,735
	Engineering					32,769	32,769
	External Affairs		474				474
	Finance			17,053			17,053
	Human Resources		18,277				18,277
	Information Technology				4,719	İ	4,719
	Legal	3,558				İ	3,558
	Operations		1,306			İ	1,306
	Procurement			8,360			8,360
	Rates & Regulatory		629			İ	629
	Risk Management		2,488				2,488
Division Offices	Administration		1,728				1,728
	Business Development		221				221
	Engineering						-
	External Affairs		1,054				1,054
	Finance			3,236			3,236
	Human Resources		115				115
	Legal	3,745					3,745
	Rates & Revenue			1,771			1,771
Info Technology	Information Technology				73,133		73,133
Tota	l Hours Charged	7,304	37,759	56,746	77,852	39,312	218,973

New Jersey American Water Company
<a href="Analysis of 12 Months Ended March 31">Analysis of 12 Months Ended March 31</a>, 2017 Service Company Charges Excludable from the Hourly Rate Calculation

	Exclusions From Hourly Rate Calculation									
		Contract		Travel		T&I	No	n-Services-		
Charges By Function		Services		Expenses	Inf	frastructure	Re	elated Items		Total
Accounting	\$	398,536	\$	4,688	\$	27,702	\$	28,543	\$	459,469
Administration	\$	308,687	\$	22,473	\$	3,515,004	\$	1,301,040	\$	5,147,204
Audit	\$	152,299	\$	492	\$	6,990	\$	-	\$	159,781
Business Development	\$	14,152	\$	5,096	\$	1,212	\$	18,976	\$	39,435
Communications	\$	95,365	\$	1,347	\$	3,181	\$	3,813	\$	103,706
Engineering	\$	89,540	\$	21,721	\$	14,990	\$	40,797	\$	167,048
External Affairs	\$	33,869	\$	4,467	\$	135	\$	1,520	\$	39,991
Finance	\$	67,804	\$	17,210	\$	2,325	\$	48,877	\$	136,215
Human Resources	\$	399,383	\$	18,879	\$	1,072	\$	24,316	\$	443,650
Information Technology	\$	5,850,679	\$	69,620	\$	1,847,848	\$	274,909	\$	8,043,056
Legal	\$	328,025	\$	22,048	\$	1,097	\$	205,054	\$	556,223
Operations	\$	63,770	\$	4,131	\$	17,888	\$	20,782	\$	106,572
Procurement	\$	(3,857)	\$	4,645	\$	-	\$	11,849	\$	12,637
Rates & Regulatory	\$	(70)	\$	3,472	\$	-	\$	-	\$	3,403
	\$	18,024	\$	2,212	\$	1,259	\$	3,266	\$	24,761
Risk Management	\$	(16,378)	\$	646	\$	265	\$	325	\$	(15,142)
Water Quality	\$	(78,520)	\$	528	\$	6,835	\$	186,497	\$	115,340
Total	\$	7,721,308	\$	203,674	\$	5,447,802	\$	2,170,564	\$	15,543,349

Outside Service Provider
Category
Certified Public Accountant
Management Consultant
Certified Public Accountant
Management Consultant
Management Consultant
Professional Engineer
Management Consultant
Certified Public Accountant
Management Consultant
IT Professional
Attorney
Professional Engineer
Certified Public Accountant
Certified Public Accountant
Management Consultant
Management Consultant
Professional Engineer

	Exclusions From Hourly Rate Calculation										
	Contract	Travel T&I			No	n-Services-					
Recap By Outside Provider	Services		Expenses	Inf	rastructure	R	elated Items		Total		
Attorney	\$ 328,025	\$	22,048	\$	1,097	\$	205,054	\$	556,223		
Management Consultant	\$ 853,102	\$	55,119	\$	3,522,128	\$	1,353,257	\$	5,783,606		
Certified Public Accountant	\$ 614,712	\$	30,507	\$	37,016	\$	89,269	\$	771,505		
IT Professional	\$ 5,850,679	\$	69,620	\$	1,847,848	\$	274,909	\$	8,043,056		
Professional Engineer	\$ 74,789	\$	26,380	\$	39,713	\$	248,076	\$	388,959		
Total	\$ 7,721,308	\$	203,674	\$	5,447,802	\$	2,170,564	\$	15,543,349		

## **Outside Service Provider Hourly Rates**

The next step in the lower-of-cost-or-market comparison was to obtain the average billing rates for outside service providers. The source of this information and the determination of the average rates are described in the paragraphs that follow.

It should be noted that professionals working for three of the five outside provider categories may be licensed to practice by state regulatory bodies. However, not every professional working for these firms is licensed. For instance, among US certified public accounting firms, only more experienced staff are predominantly CPAs (see table below). Some Service Company employees also have professional licenses. Thus, it is valid to compare the Service Company's hourly rates to those of the outside professional service providers included in this study.

	US
Position	Average
Partners/Owners	98%
Directors (11+ years experience)	87%
Managers (6-10 years experience)	79%
Sr Associates (4-5 years experience)	50%
Associates (1-3 years experience)	22%
New Professionals	10%

Source: AICPA's National PCPS/TSCPA Management of an Accounting Practice Survey (2010)

### Attorneys

The New Jersey State Bar does not survey its members as to their hourly billing rates. In addition, publicly available billing rate information could not be found for New Jersey attorneys. Therefore, an estimate of New Jersey attorney rates was developed from a 2016 billing rate survey from National Law Journal. As shown in Exhibit 6 (pages 20-24), data from this survey has been adjusted for cost-of-living differences between each law firm's location and Trenton, New Jersey. The National Law Review Billing survey hourly rates data is for 2016.

### **Management Consultants**

The cost per hour for management consultants was developed from a 2016 survey performed by the Association of Management Consulting Firms—an industry trade organization. The survey includes rates that were in effect during 2015 for firms throughout the United States (this is the latest data available). Consultants typically do not limit their practice to any one region and must travel to a client's location. Thus, in this case the U.S. national average is appropriate for comparison.

The first step in the calculation, presented in Exhibit 7 (page 25), was to determine an average rate by consultant position level. From these rates, a single weighted average hourly rate was calculated based upon the percent of time that is typically applied to a consulting assignment by each consultant position level. The calculated average rate was escalated to September 30, 2016—the midpoint of 12 months ended March 31, 2017.

#### **Certified Public Accountants**

The average hourly rate for New Jersey CPAs was developed from a 2016 survey performed by the American Institute of Certified Public Accountants (AICPA). The New Jersey version of this survey was used to develop hourly rates for member firms in New Jersey.

As shown in Exhibit 8 (page 26), a weighted average hourly rate was developed based on a set of accountant positions and a percent of time that is typically applied to an accounting assignment. This survey includes rate information in effect during 2015. The calculated average rate was escalated to September 30, 2016—the midpoint of 12 months ended March 31, 2017.

### **Technology and Innovation Professionals**

The average hourly rate for information technology consultants and contractors was developed from T&I industry hourly billing rate data gathered by Baryenbruch & Company, LLC. As shown in Exhibit 9 (page 27), that data was compiled and a weighted average was calculated based on a percent of time that is typically applied to an T&I consulting assignment based on Baryenbruch & Company's experience.

### **Professional Engineers**

The Company provided hourly rate information for outside engineering firms that provided NJAW with their rate schedules. As presented in Exhibit 10 (page 28), an average rate was developed for each engineering position level. Then, using a typical percentage mix of project time by engineering position, a weighted average cost per hour was calculated.

2016 Hourly Billing Rates						٧	Veighted	Aver	rage Rate	Calculation	Cost of Livin	g (COL) Adjustn	nent (Note B)	1	
		2	016 Avg E	Billing	Rates		0.25		0.75	(A)	COL	Indices	(B)	(	AxB)
										Weighted	Law Firm	NJAW -	COL	Α	djusted
Firm Name	Location	F	Partner	Ass	sociate	F	Partner	A	ssociate	Average	Location	Trenton, NJ	Adjustment		Rate
Ackerman Fox	East Meadow, NY	\$	475	\$	350	\$	119	\$	263	\$ 381	129.2	122.2	94.6%	\$	361
Adam Law Group	Jacksonville, FL	\$	350	\$	350	\$	88	\$	263	\$ 350	95.5	122.2	127.9%	\$	448
Akerman	Miami, FL	\$	510	\$	285	\$	128	\$	214	\$ 341	107.2	122.2	114.0%	\$	389
Akin Gump Strauss Hauer & Feld	Washington , DC	\$	1,175	\$	523	\$	294	\$	392	\$ 686	141.6	122.2	86.3%	\$	592
Allen Barnes & Jones	Phoenix, AZ	\$	345	\$	285	\$	86	\$	214	\$ 300	97.3	122.2	125.6%	\$	377
Amigone, Sanchez & Mattrey	Buffalo, NY	\$	275	\$	175	\$	69	\$	131	\$ 200	96.2	122.2	127.1%	\$	254
Andante Law Group	Scottsdale, AZ	\$	565	\$	375	\$	141	\$	281	\$ 423	113.9	122.2	107.3%	\$	453
Andreozzi Bluestein Weber Brown	Clarence, NY	\$	400	\$	230	\$	100	\$	173	\$ 273	96.2	122.2	127.1%	\$	346
Andrews Kurth	Houston, TX	\$	813	\$	360	\$	203	\$	270	\$ 473	99.0	122.2	123.5%	\$	585
Arent Fox	Washington, DC	\$	582	\$	295	\$	146	\$	221	\$ 367	141.6	122.2	86.3%	\$	317
Arnstein & Lehr	Chicago, IL	\$	493	\$	250	\$	123	\$	188	\$ 311	117.4	122.2	104.1%	\$	323
Ashby & Geddes	Wilmington, DE	\$	495	\$	353	\$	124	\$	265	\$ 389	108.4	122.2	112.8%	\$	438
Ayres, Shelton, Williams	Shreveport, LA	\$	325	\$	275	\$	81	\$	206	\$ 288	92.7	122.2	131.8%	\$	379
Bailey & Busey	Yakima, WA	\$	250	\$	230	\$	63	\$	173	\$ 235	89.9	122.2	136.0%	\$	320
Baker & Associates	Houston, TX	\$	450	\$	325	\$	113	\$	244	\$ 356	99.0	122.2	123.5%	\$	440
Baker Botts	Houston, TX	\$	788	\$	550	\$	197	\$	413	\$ 610	99.0	122.2	123.5%	\$	753
Baker, Donelson, Bearman, Caldwell & Berke	owNashville, TN	\$	395	\$	320	\$	99	\$	240	\$ 339	86.3	122.2	141.6%	\$	480
Baldi Berg	Chicago, IL	\$	388	\$	275	\$	97	\$	206	\$ 303	117.4	122.2	104.1%	\$	316
Barron and Newburger	Austin, TX	\$	450	\$	450	\$	113	\$	338	\$ 450	92.5	122.2	132.2%	\$	595
Bayard	Wilmington, DE	\$	692	\$	477	\$	173	\$	358	\$ 531	108.4	122.2	112.8%	\$	599
Behar, Gutt & Glazer	Fort Lauderdale, FL	\$	400	\$	335	\$	100	\$	251	\$ 351	109.5	122.2	111.6%	\$	392
Benjamin & Brand	Chicago, IL	\$	425	\$	395	\$	106	\$	296	\$ 403	117.4	122.2	104.1%	\$	419
Bernstein-Burkley	Pittsburgh, PA	\$	385	\$	249	\$	96	\$	187	\$ 283	121.2	122.2	100.9%	\$	285
Bielli & Klauder	Philadelphia, PA	\$	350	\$	285	\$	88	\$	214	\$ 301	121.2	122.2	100.9%	\$	304
Binder & Malter	Santa Clara, CA	\$	440	\$	300	\$	110	\$	225	\$ 335	148.8	122.2	82.2%	\$	275
Bingham Greenebaum Doll	Indianapolis, IN	\$	313	\$	215	\$	78	\$	161	\$ 240	91.1	122.2	134.2%	\$	321
Blanchard Law	Largo, FL	\$	250	\$	225	\$	63	\$	169	\$ 231	96.8	122.2	126.3%	\$	292
Bolognese & Associates	Philadelphia, DE	\$	675	\$	675	\$	169	\$	506	\$ 675	108.4	122.2	112.8%	\$	761
Bond, Schoeneck & King	Syracuse, NY	\$	383	\$	196	\$	96	\$	147	\$ 243	99.9	122.2	122.4%	\$	297
Bracewell	Houston, TX	\$	779	\$	523	\$	195	\$	392	\$ 587	99.0	122.2	123.5%	\$	725
Bradley Arant Boult Cummings	Birmingham, AL	\$	540	\$	330	\$	135	\$	248	\$ 383	85.9	122.2	142.3%	\$	544
Broege, Neumann, Fischer & Shaver	Manasquan, NJ	\$	438	\$	438	\$	110	\$	329	\$ 438	122.2	122.2	100.0%	\$	438
Bryan Cave	St. Louis, MO	\$	543	\$	350	\$	136	\$	263	\$ 398	94.4	122.2	129.4%	\$	516
Burr & Forman	Birmingham, AL	\$	545	\$	310	\$	136	\$	233	\$ 369	85.9	122.2	142.3%	\$	525
Butler Snow	Memphis, TN	\$	313	\$	195	\$	78	\$	146	\$ 225	84.9	122.2	144.0%	\$	323
Canterbury Law Group	Scottsdale, AZ	\$	400	\$	140	\$	100	\$	105	\$ 205	113.9	122.2	107.3%	\$	220
CGA Law Firm	York, PA	\$	288	\$	195	\$	72	\$	146	\$ 218	98.1	122.2	124.6%	\$	272
Chambliss, Bahner & Stophel	Chattanooga, TN	\$	300	\$	240	\$	75	\$	180	\$ 255	93.1	122.2	131.3%	\$	335
Ciardi, Ciardi & Astin	Philadelphia, PA	\$	540	\$	300	\$	135	\$	225	\$ 360	121.2	122.2	100.9%	\$	363
Coats Rose Yale Ryman & Lee	Houston, TX	\$	550	\$	325	\$	138	\$	244	\$ 381	99.0	122.2	123.5%	\$	471
Cohen & Grigsby	Pittsburgh, PA	\$	425	\$	255	\$	106	\$	191	\$ 298	92.2	122.2	132.6%	\$	394
Cole, Schotz, Meisel, Forman & Leonard	Baltimore, MD	\$	510	\$	320	\$	128	\$	240	\$ 368	111.3	122.2	109.9%	\$	404

Coopie R. Sculy	2016 Hourly Billing Rates						V	Veighted	Aver	age Rate	Cal	culation	Cost of Livin	g (COL) Adjustr	nent (Note B)	1	
Parm Name   Location   Parm   Associate   Partmer   Associate   Associate   Average   Location   Tenton, N.   Adjustment   Rate   Cooper & Scully   Houston, T.X   \$ 425   \$ 300   \$ 106   \$ 225   \$ 331   99.0   1222   78.5%   \$ 450   \$ 4			20	016 Avg	Billing	Rates		0.25		0.75		(A)	COL	Indices	(B)	(	(A x B)
Cooley   Palo Alto, CA   S   965   S   633   S   249   S   422   S   671   159.9   122.2   76.5%   S   513   Cooper & Scull W   Houston, TX   S   425   S   300   S   225   S   331   99.0   122.2   76.5%   S   400   Corper & Scull W   Houston, TX   S   425   S   300   S   225   S   331   99.0   122.2   123.5%   S   400   Corper & Scull W   Corper & Scu											_ v	/eighted	Law Firm	NJAW -	COL	Α	djusted
Cooper & Sculy	Firm Name	Location	F	artner	As	sociate	ı	Partner	A:	ssociate	P	Average	Location	Trenton, NJ	Adjustment		Rate
Draine Hayman Simon Welch Chicago, IL Chic	Cooley	Palo Alto, CA	\$	995	\$	563	\$	249	\$	422	\$	671	159.9	122.2	76.5%	\$	513
Draine Hayman Simon Welch Chicago, IL Chic	Cooper & Scully	Houston, TX	\$	425	\$	300	\$	106	\$	225	\$	331	99.0	122.2	123.5%	\$	409
Criem Medias Koenig & Frey Los Angeles, CA \$ 595 \$ 350 \$ 149 \$ 263 \$ 411 \$ 131.0 \$ 122.2 \$ 93.3% \$ 384 Crowley, Liberatore, Ryan & Brogan Nortolk, VA \$ 350 \$ 350 \$ 88 \$ 263 \$ 350 \$ 99.4 \$ 122.2 \$ 122.9% \$ \$ 489 Curis Casilio Dallas, TX \$ 420 \$ 350 \$ 8105 \$ 263 \$ 388 \$ 95.7 \$ 122.2 \$ 127.7% \$ 4 689 Curis Casilio Dallas, TX \$ 420 \$ 350 \$ 8105 \$ 263 \$ 388 \$ 95.7 \$ 122.2 \$ 127.7% \$ 4 689 Curis Casilio Dallas, TX \$ 450 \$ 200 \$ 8.90 \$ 150 \$ 240 \$ 96.3 \$ 122.2 \$ 126.7% \$ 8 90 Curis Casilio Dallas, TX \$ 450 \$ 200 \$ 150 \$ 240 \$ 96.3 \$ 122.2 \$ 131.6% \$ 5 90 Curis Casilio Dallas Curis Casilio Dallas, TX \$ 450 \$ 200 \$ 8.90 \$ 150 \$ 240 \$ 96.3 \$ 122.2 \$ 131.6% \$ 5 90 Curis Casilio Dallas, TX \$ 450 \$ 240 \$ 130.0 \$ 22.2 \$ 131.6% \$ 5 90 Curis Casilio Dallas, TX \$ 450 \$ 240 \$ 130.0 \$ 22.2 \$ 131.6% \$ 5 90 Curis Casilio Dallas, TX \$ 240 \$ 250 \$ 200 \$ 122.2 \$ 131.6% \$ 5 90 Curis Casilio Dallas, TX \$ 240 \$ 250 \$ 200 \$ 2.9 \$ 122.2 \$ 131.6% \$ 5 90 Curis Casilio Dallas, TX \$ 240 \$ 250 \$ 200 \$ 2.9 \$ 122.2 \$ 131.6% \$ 5 90 Curis Casilio Dallas, TX \$ 240 \$ 250 \$ 200 \$ 2.9 \$ 122.2 \$ 131.6% \$ 5 90 Curis Casilio Dallas, TX \$ 240 \$ 250 \$ 200 \$ 2.9 \$ 122.2 \$ 131.6% \$ 5 90 Curis Casilio Dallas, TX \$ 240 \$ 250 \$ 200 \$ 2.9 \$ 122.2 \$ 131.6% \$ 5 90 Curis Casilio Dallas, TX \$ 240 \$ 250 \$ 200 \$ 2.9 \$ 122.2 \$ 131.6% \$ 5 90 Curis Casilio Dallas, TX \$ 240 \$ 250 \$ 200 \$ 2.9 \$ 122.2 \$ 131.6% \$ 5 90 Curis Casilio Dallas, TX \$ 240 \$ 250 \$ 200 \$ 2.9 \$ 20.2 \$ 20.	Crane Heyman Simon Welch		\$	458	\$	430		115	\$	323	\$	437	117.4	122.2	104.1%	\$	455
Crowley, Liberatore, Ryan & Brogan Norfolk, VA  \$ 350 \$ 350 \$ \$ 88 \$ 263 \$ \$ 350 \$ 99.4 \$ 1222 \$ 122.9% \$ 489 Dal Lago Law Neples, FL \$ 360 \$ \$ 350 \$ \$ 105 \$ \$ 263 \$ \$ 368 \$ 95.7 \$ 122 \$ 127.7% \$ \$ 489 Dal Lago Law Neples, FL \$ 360 \$ \$ 360 \$ \$ 200 \$ \$ 90 \$ \$ 150 \$ \$ 240 \$ 96.3 \$ 122 \$ 126.9% \$ \$ 350 Davis Miles McGuire Gardher Tempe, AZ \$ 380 \$ \$ 238 \$ \$ 150 \$ \$ 240 \$ 96.3 \$ 122 \$ 126.9% \$ \$ 305 Davis Miles McGuire Gardher Tempe, AZ \$ 380 \$ \$ 238 \$ \$ 179 \$ \$ 274 \$ 97.3 \$ 122 \$ 125.6% \$ \$ 344 Day Pitney Parsippariy, NY \$ 383 Decearo A Howell Upper Marbroro, MN \$ 425 Dechart New York, NY \$ 930 \$ 5 70 \$ 5 233 \$ 148 \$ 5 660 \$ 221.3 \$ 1222 \$ 152.9% \$ 380 Dechard Namaria, GA \$ 6800 \$ 5 388 \$ 173 \$ 248 \$ 5 660 \$ 221.3 \$ 1222 \$ 152.9% \$ 3 80 Dechard Namaria, GA \$ 6800 \$ 5 388 \$ 173 \$ 240 \$ 5 660 \$ 221.3 \$ 1222 \$ 122.96 \$ 26.2% \$ 3 800 \$ 5 288 Dechard New York, NY \$ 930 \$ 5 70 \$ 5 233 \$ 428 \$ 5 660 \$ 221.3 \$ 1222 \$ 122.4% \$ 3 200 Dechard Namaria, GA \$ 6800 \$ 5 388 \$ 173 \$ 240 \$ 5 660 \$ 221.3 \$ 1222 \$ 122.96 \$ 26.2% \$ 3 800 Dechard Namaria, GA \$ 6800 \$ 5 388 \$ 173 \$ 240 \$ 5 660 \$ 221.3 \$ 1222 \$ 122.96 \$ 26.2% \$ 3 800 Dechard Namaria, GA \$ 6800 \$ 5 388 \$ 173 \$ 240 \$ 5 660 \$ 221.3 \$ 1222 \$ 122.95 \$ 26.2% \$ 3 800 Dechard Namaria, GA \$ 6800 \$ 5 388 \$ 173 \$ 240 \$ 5 660 \$ 221.3 \$ 1222 \$ 122.45% \$ 3 800 Dechard Namaria, GA \$ 8 800 \$ 5 388 \$ 173 \$ 240 \$ 5 760 \$ 90.5 \$ 1222 \$ 127.7% \$ 26.2% \$ 3 805 Dechard Namaria, GA \$ 8 800 \$ 5 388 \$ 173 \$ 240 \$ 5 760 \$ 90.5 \$ 1222 \$ 127.37% \$ 228 \$ 260 Dechard Namaria, GA \$ 8 800 \$ 5 388 \$ 173 \$ 240 \$ 5 760 \$ 90.5 \$ 10.88 \$ 1222 \$ 111.8% \$ 278 Dechard Namaria, GA \$ 8 800 \$ 8 803 \$ 170 \$ 8 233 \$ 170	Creim Macias Koenig & Frey	Los Angeles, CA	\$	595	\$	350	\$	149	\$	263	\$	411	131.0	122.2	93.3%	\$	384
Dal Lago Law Naples, FL S 360 S 200 S 500 S 150 S 240 96.3 122 126.9% S 305 S 552 David Wilsen Tampa, FL S 460 S 450 S 450 S 450 S 450 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 5	Crowley, Liberatore, Ryan & Brogan		\$	350	\$	350	\$	88	\$	263	\$	350	99.4	122.2	122.9%	\$	430
Dal Lago Law Naples, FL S 360 S 200 S 500 S 150 S 240 96.3 122 126.9% S 305 S 552 David Wilsen Tampa, FL S 460 S 450 S 450 S 450 S 450 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 550 S 450 S 5	Curtis Castillo	Dallas, TX	\$	420	\$	350	\$	105	\$	263	\$	368	95.7	122.2	127.7%	\$	469
David Wissen McGuire Gardner  Tempe, AZ  \$ 380 \$ 450 \$ \$ 113 \$ 338 \$ 450 92.9 12.2 131.6% \$ 582 Davis Miles McGuire Gardner  Tempe, AZ  \$ 380 \$ 238 \$ 9.5 \$ 179 \$ 274 97.3 122.2 125.6% \$ 344 Davy Pitney  Parsippany, NY  \$ 585 \$ 375 \$ 146 \$ 281 \$ 428 Davy Pitney  Dechert  New York, NY  \$ 390 \$ 570 \$ 233 \$ 428 \$ 580 Dethors  Altanta, GA  \$ 690 \$ 538 \$ 175 \$ 233 \$ 428 \$ 580 Dethors  Altanta, GA  \$ 690 \$ 538 \$ 171 \$ 274 \$ 273 \$ 122.2 152.6% \$ 385 Demotors  Altanta, GA  \$ 690 \$ 538 \$ 171 \$ 244 \$ 205 \$ 385 Demotors  Altanta, GA  \$ 690 \$ 538 \$ 171 \$ 244 \$ 205 \$ 98.5 \$ 122.2 130.7% \$ 753 Demotors  Altanta, GA  \$ 690 \$ 538 \$ 171 \$ 244 \$ 205 \$ 98.2 122.2 152.6% \$ 385 Demotors  Altanta, GA  \$ 690 \$ 538 \$ 171 \$ 244 \$ 205 \$ 98.2 122.2 152.6% \$ 385 Demotors  Altanta, GA  \$ 690 \$ 538 \$ 171 \$ 244 \$ 205 \$ 98.2 122.2 152.6% \$ 385 Demotors  Altanta, GA  \$ 690 \$ 538 \$ 171 \$ 104 \$ 576 \$ 93.5 122.2 130.7% \$ 753 Demotors  Demotors  Altanta, GA  \$ 325 \$ 165 \$ 81 \$ 169 \$ 250 \$ 109.8 122.2 111.3% \$ 278 Demotors  Demotors  Demotors  Altanta, GA  \$ 580 \$ 225 \$ 186 \$ 180 \$ 194 \$ 250 \$ 109.8 122.2 111.3% \$ 278 Demotors  Demotors  New York, NY  \$ 988 \$ 633 \$ 240 \$ 475 \$ 714 \$ 221.3 122.2 55.2% \$ 385 DuBosar Sheres  DuBosar Sheres  Boca Raton, FL  \$ 425 \$ 290 \$ 106 \$ 218 \$ 324 \$ 109.5 122.2 111.9% \$ 350 DuBosar Sheres  Boca Raton, FL  \$ 425 \$ 290 \$ 106 \$ 218 \$ 329 \$ 101.3 122.2 111.3% \$ 380 DuBosar Sheres  Westlake Village, CA  \$ 495 \$ 390 \$ 275 \$ 888 \$ 206 \$ 294 \$ 110.3 6 122.2 111.9% \$ 332 Federstein Fitzgerald Willoughty and Scuzzi  Scramento, CA  \$ 495 \$ 300 \$ 275 \$ 888 \$ 206 \$ 294 \$ 110.3 6 122.2 111.9% \$ 332 Federstein Fitzgerald Willoughty and Scuzzi  Scramento, CA  \$ 495 \$ 300 \$ 275 \$ 888 \$ 206 \$ 294 \$ 110.3 6 122.2 111.9% \$ 332 Federstein Fitzgerald Willoughty and Scuzzi  Scramento, CA  \$ 495 \$ 300 \$ 275 \$ 888 \$ 206 \$ 294 \$ 110.4 122.2 109.9% \$ 393  Federstein Fitzgerald Willoughty and Scuzzi  Scramento, CA  \$ 490 \$ 300 \$ 275 \$ 380 \$ 290 \$ 290 \$ 328 \$ 390 \$ 290 \$ 290 \$ 328 \$ 290 \$ 211.0 30.0 122.2 111.9% \$ 332  Federstein Fitzgerald W	Dal Lago Law	Naples, FL	\$	360	\$	200		90	\$	150	\$	240	96.3	122.2	126.9%	\$	305
Davis Miles McGuire Gardner  Parsippary, NY  \$ 585  \$ 380  \$ 238  \$ 95  \$ 179  \$ 274  \$ 97.3  1222  125.6%  \$ 344  Dechari  Upper Marlboro, MD  \$ 425  \$ 380  \$ 575  \$ 146  \$ 285  \$ 391  111.8  1222  119.4%  \$ 428  Dechari  New York, NY  \$ 390  \$ 570  \$ 538  \$ 573  \$ 233  \$ 426  \$ 660  221.3  1222  19.94%  \$ 428  Dechari  New York, NY  \$ 390  \$ 570  \$ 538  \$ 173  \$ 233  \$ 404  \$ 576  \$ 505.5  1222  130.7%  \$ 753  Decharian, GA  \$ 690  \$ 538  \$ 173  \$ 404  \$ 505  \$ 576  \$ 505.5  1222  130.7%  \$ 753  Decharian, GA  \$ 690  \$ 538  \$ 173  \$ 404  \$ 505  Decharian, GA  \$ 690  \$ 538  \$ 173  \$ 404  \$ 505  \$ 576  \$ 505.5  \$ 521  221  130.7%  \$ 753  Decharian, GA  \$ 690  \$ 538  \$ 173  \$ 404  \$ 505  Decharian, GA  \$ 690  \$ 538  \$ 173  \$ 404  \$ 505  \$ 506  \$ 221.3  \$ 1222  109.4%  \$ 428  \$ 285  Decharian, GA  \$ 690  \$ 538  \$ 173  \$ 404  \$ 506  \$ 225  \$ 811  \$ 124  \$ 206  \$ 98.2  1222  112.45, %  \$ 255  Decharian, GA  \$ 285  Decharian, GA  \$ 690  \$ 525  \$ 811  \$ 169  \$ 250  \$ 98.2  1222  111.7%  \$ 227  \$ 224, 459  \$ 255  Decharian, Wight  Troy, M  \$ 600  \$ 5245  \$ 810  \$ 818  \$ 189  \$ 275  \$ 961  1222  127.1%  \$ 424  Decharian, GA  Decharian, FL  \$ 426  \$ 290  \$ 106  \$ 218  \$ 324  109.5  111.8  1222  127.1%  \$ 300  Decharian, Wight	David W Steen	Tampa, FL	\$	450	\$	450		113	\$	338		450	92.9	122.2	131.6%	\$	592
Day Pintey   Parsippany, NY   \$ .885   \$ .375   \$ .146   \$ .281   \$ .428   133.0   122.2   19.9%   \$ .383     Decaro & Howell   Upper Mariboro, MD   \$ .425   \$ .380   \$ .106   \$ .285   \$ .391   111.8   122.2   109.4%   \$ .428     Dechert   New York, NY   \$ .930   \$ .570   \$ .233   428   \$ .660   22.13   122.2   55.2%   \$ .365     Dentons   Alfanta, GA   \$ .690   \$ .538   \$ .73   \$ .404   \$ .576   93.5   122.2   130.7%   \$ .753     Derbes Law Firm   Metatire, LA   \$ .325   \$ .585   \$ .811   \$ .169   \$ .255   \$ .955   122.2   113.07%   \$ .753     Desmond, Nolan, Livaich & Cunningham   Sacramento, CA   \$ .325   \$ .255   \$ .811   \$ .169   \$ .250   109.8   122.2   111.3%   \$ .278     Dickinson Wright   Troy, M   \$ .600   \$ .245   \$ .5150   \$ .814   \$ .334   96.1   122.2   127.1%   \$ .242     Dickinson Wright   Troy, M   \$ .600   \$ .250   \$ .88   \$ .188   \$ .275   \$ .961   122.2   127.1%   \$ .324     Dickinson Briefs   Boca Ration, FL   \$ .425   \$ .290   \$ .106   \$ .218   \$ .324   109.5   122.2   127.1%   \$ .360     Dykema Cox Smith   San Antonio, TX   \$ .665   \$ .290   \$ .106   \$ .218   \$ .399   \$ .876   122.2   111.1%   \$ .361     FactorLaw   Chicago, L   \$ .350   \$ .275   \$ .88   \$ .266   \$ .294   117.4   122.2   104.1%   \$ .306     FactorLaw   Chicago, L   \$ .360   \$ .400   \$ .300   \$ .4	Davis Miles McGuire Gardner	Tempe, AZ	\$	380	\$	238		95	\$	179	\$	274	97.3	122.2	125.6%	\$	344
DeCard A Howell  Upper Mariboro, MD  \$ 426 \$ 380 \$ 106 \$ 285 \$ 391 \$ 3111.8  112.2  100.4% \$ 348 Dechert  New York, NY \$ 930 \$ 570 \$ 530 \$ 570 \$ 233 \$ 428 \$ 660 221.3  122.2  130.7% \$ 365 Dechert  New York, NY \$ 930 \$ 570 \$ 538 \$ 173 \$ 404 \$ 576 93.5  122.2  130.7% \$ 585 Deches Law Firm  Matarie, LA \$ 325 Bertoes Law Firm  Matarie, LA \$ 325 \$ 165 \$ 81 \$ 124 \$ 205 \$ 98.2  122.2  124.5% \$ 255  125.2  130.7% \$ 278 Dechert  New York, NY \$ 936 Dechert  Troy, M \$ 600 \$ 245 \$ 516 \$ 81 \$ 169 \$ 250 \$ 109.8  122.2  127.1% \$ 278 Dechert  New York, NY \$ 986 \$ 633 \$ 240 \$ 475 \$ 714 \$ 2213 122.2  127.1% \$ 342 Dechert  Dechert  New York, NY \$ 986 \$ 633 \$ 240 \$ 475 \$ 714 \$ 2213 122.2  127.1% \$ 342 Dechert  Dechert  New York, NY \$ 986 \$ 633 \$ 240 \$ 475 \$ 714 \$ 2213 122.2  127.1% \$ 342 Dechert  Dechert  New York, NY \$ 986 \$ 633 \$ 240 \$ 475 \$ 714 \$ 2213 122.2  127.1% \$ 340 Dechert  Dechert  New York, NY \$ 986 \$ 633 \$ 240 \$ 475 \$ 714 \$ 2213 122.2  127.1% \$ 340 Dechert  Dechert  New York, NY \$ 986 \$ 633 \$ 240 \$ 475 \$ 714 \$ 2213 122.2  127.1% \$ 340 Dechert  Dechert  Dechert  New York, NY \$ 986 \$ 633 \$ 240 \$ 475 \$ 714 \$ 2213 122.2  127.1% \$ 340 Dechert  Dechert  Dechert  New York, NY \$ 986 \$ 633 \$ 240 \$ 475 \$ 714 \$ 213 \$ 122.2  127.1% \$ 340 Dechert  Dechert  Dechert  Dechert  New York, NY \$ 986 \$ 633 \$ 240 \$ 475 \$ 714 \$ 2213 122.2  127.1% \$ 340 Dechert  Dechert  Dechert  Dechert  Dechert  New York, NY \$ 986 \$ 538 \$ 186 \$ 188 \$ 188 \$ 188 \$ 275 \$ 96.1  122.2  127.1% \$ 340 Dechert  Dechert	Day Pitney	Parsippany, NY	\$	585	\$	375	\$	146	\$	281	\$	428	133.0	122.2	91.9%	\$	393
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Desmond, Nolan, Livaich & Cunningham   Sacramento, CA   \$ 3.25   \$ 2.25   \$ 81   \$ 169   \$ 250   109.8   122.2   111.3%   \$ 278			\$														
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Frank B. Lyon Austin, TX \$ 395 \$ 305 \$ 99 \$ 229 \$ 328 92.5 122.2 132.2% \$ 433 Franklin Hayward Dallas, TX \$ 318 \$ 280 \$ 80 \$ 210 \$ 290 95.7 122.2 127.7% \$ 370 Furr & Cohen Boca Raton, FL \$ 550 \$ 388 \$ 138 \$ 291 \$ 429 109.5 122.2 111.6% \$ 478 Gardere Wynne Sewell Dallas, TX \$ 590 \$ 578 \$ 148 \$ 434 \$ 581 95.7 122.2 127.7% \$ 742 Garrity Traina Coconut Creek, FL \$ 250 \$ 200 \$ 63 \$ 150 \$ 213 109.5 122.2 111.6% \$ 237 Genova Burns Giantomasi Webster Newark, NJ \$ 600 \$ 275 \$ 150 \$ 206 \$ 356 128.4 122.2 95.2% \$ 339 Goldstein & McClintock Chicago, IL \$ 435 \$ 225 \$ 109 \$ 169 \$ 278 117.4 122.2 104.1% \$ 289 Gray Reed & McGraw Houston, TX \$ 600 \$ 300 \$ 150 \$ 225 \$ 375 99.0 122.2 123.5% \$ 463 Green & Sklarz New Haven, CT \$ 443 \$ 350 \$ 111 \$ 263 \$ 373 128.3 122.2 95.3% \$ 356 Greenberg & Bass	Fox Rothschild	<u> </u>	\$				\$							122.2		<u> </u>	
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Furr & Cohen Boca Raton, FL \$ 550 \$ 388 \$ 138 \$ 291 \$ 429 109.5 122.2 111.6% \$ 478 Gardere Wynne Sewell Dallas, TX \$ 590 \$ 578 \$ 148 \$ 434 \$ 581 95.7 122.2 127.7% \$ 742 Garrity Traina Coconut Creek, FL \$ 250 \$ 200 \$ 63 \$ 150 \$ 213 109.5 122.2 111.6% \$ 237 Genova Burns Giantomasi Webster Newark, NJ \$ 600 \$ 275 \$ 150 \$ 206 \$ 356 128.4 122.2 95.2% \$ 339 Gerald K. Smith & John C. Smith Law Office Tucson, AZ \$ 400 \$ 350 \$ 100 \$ 263 \$ 363 96.4 122.2 126.9% \$ 460 Goldstein & McClintock Chicago, IL \$ 435 \$ 225 \$ 109 \$ 169 \$ 278 117.4 122.2 104.1% \$ 289 Gray Reed & McGraw Houston, TX \$ 600 \$ 300 \$ 150 \$ 225 \$ 375 99.0 122.2 123.5% \$ 463 Green & Sklarz New Haven, CT \$ 443 \$ 350 \$ 111 \$ 263 \$ 373 128.3 122.2 95.3% \$ 356 Greenberg & Bass	· · · · · · · · · · · · · · · · · · ·		\$	318						210		290	95.7	122.2			
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Garrity Traina         Coconut Creek, FL         \$ 250         \$ 200         \$ 63         \$ 150         \$ 213         109.5         122.2         111.6%         \$ 237           Genova Burns Giantomasi Webster         Newark, NJ         \$ 600         \$ 275         \$ 150         \$ 206         \$ 356         128.4         122.2         95.2%         \$ 339           Gerald K. Smith & John C. Smith Law Office         Tucson, AZ         \$ 400         \$ 350         \$ 100         \$ 263         \$ 363         96.4         122.2         126.9%         \$ 460           Goldstein & McClintock         Chicago, IL         \$ 435         \$ 225         \$ 109         \$ 169         \$ 278         117.4         122.2         104.1%         \$ 289           Gray Reed & McGraw         Houston, TX         \$ 600         \$ 300         \$ 150         \$ 225         \$ 375         99.0         122.2         123.5%         \$ 463           Green & Sklarz         New Haven, CT         \$ 443         \$ 350         \$ 111         \$ 263         \$ 373         128.3         122.2         95.3%         \$ 356           Green & Sklarz         New Haven, CT         \$ 443         \$ 350         \$ 111         \$ 263         \$ 373         128.3         122.2         95.3%		· · · · · · · · · · · · · · · · · · ·	\$													<u> </u>	
Genova Burns Giantomasi Webster         Newark, NJ         \$ 600         \$ 275         \$ 150         \$ 206         \$ 356         128.4         122.2         95.2%         \$ 339           Gerald K. Smith & John C. Smith Law Office         Tucson, AZ         \$ 400         \$ 350         \$ 100         \$ 263         \$ 363         96.4         122.2         126.9%         \$ 460           Goldstein & McClintock         Chicago, IL         \$ 435         \$ 225         \$ 109         \$ 169         \$ 278         117.4         122.2         104.1%         \$ 289           Gray Reed & McGraw         Houston, TX         \$ 600         \$ 300         \$ 150         \$ 225         \$ 375         99.0         122.2         123.5%         \$ 463           Green & Sklarz         New Haven, CT         \$ 443         \$ 350         \$ 111         \$ 263         \$ 373         128.3         122.2         95.3%         \$ 356           Green & Sklarz         New Haven, CT         \$ 443         \$ 350         \$ 111         \$ 263         \$ 373         128.3         122.2         95.3%         \$ 356           Green berg & Bass         Encino, CA         \$ 450         \$ 363         \$ 113         \$ 272         \$ 385         131.0         122.2         93.3%			\$	250		200		63			_		109.5	122.2	111.6%	\$	237
Gerald K. Smith & John C. Smith Law Office     Tucson, AZ     \$ 400     \$ 350     \$ 100     \$ 263     \$ 363     96.4     122.2     126.9%     \$ 460       Goldstein & McClintock     Chicago, IL     \$ 435     \$ 225     \$ 109     \$ 169     \$ 278     117.4     122.2     104.1%     \$ 289       Gray Reed & McGraw     Houston, TX     \$ 600     \$ 300     \$ 150     \$ 225     \$ 375     99.0     122.2     123.5%     \$ 463       Green & Sklarz     New Haven, CT     \$ 443     \$ 350     \$ 111     \$ 263     \$ 373     128.3     122.2     95.3%     \$ 356       Greenberg & Bass     Encino, CA     \$ 450     \$ 363     \$ 113     \$ 272     \$ 385     131.0     122.2     93.3%     \$ 359	Genova Burns Giantomasi Webster		\$													_	
Goldstein & McClintock         Chicago, IL         \$ 435         \$ 225         \$ 109         \$ 169         \$ 278         117.4         122.2         104.1%         \$ 289           Gray Reed & McGraw         Houston, TX         \$ 600         \$ 300         \$ 150         \$ 225         \$ 375         99.0         122.2         123.5%         \$ 463           Green & Sklarz         New Haven, CT         \$ 443         \$ 350         \$ 111         \$ 263         \$ 373         128.3         122.2         95.3%         \$ 356           Greenberg & Bass         Encino, CA         \$ 450         \$ 363         \$ 113         \$ 272         \$ 385         131.0         122.2         93.3%         \$ 359	Gerald K. Smith & John C. Smith Law Office	, -	-													_	
Gray Reed & McGraw         Houston, TX         \$ 600         \$ 300         \$ 150         \$ 225         \$ 375         99.0         122.2         123.5%         \$ 463           Green & Sklarz         New Haven, CT         \$ 443         \$ 350         \$ 111         \$ 263         \$ 373         128.3         122.2         95.3%         \$ 356           Greenberg & Bass         Encino, CA         \$ 450         \$ 363         \$ 113         \$ 272         \$ 385         131.0         122.2         93.3%         \$ 359	Goldstein & McClintock															-	
Green & Sklarz         New Haven, CT         \$ 443         \$ 350         \$ 111         \$ 263         \$ 373         128.3         122.2         95.3%         \$ 356           Greenberg & Bass         Encino, CA         \$ 450         \$ 363         \$ 113         \$ 272         \$ 385         131.0         122.2         93.3%         \$ 359	Gray Reed & McGraw		\$													_	
Greenberg & Bass Encino, CA \$ 450 \$ 363 \$ 113 \$ 272 \$ 385   131.0 122.2 93.3% \$ 359	Green & Sklarz	,	\$		_											_	
			\$		_		_									-	
	Greenberg Traurig	New York, NY	\$	950	\$	563	\$	238	\$	422	\$	660	221.3	122.2	55.2%	\$	364

2016 Hourly Billing Rates						٧	Veighted	Ave	age Rate	Calculation	Cost of Livin	g (COL) Adjustn	nent (Note B)	1	
		2	016 Avg E	Billing	Rates		0.25		0.75	(A)	COLI	Indices	(B)		(A x B)
										Weighted	Law Firm	NJAW -	COL	A	djusted
Firm Name	Location	F	Partner	As	sociate	F	Partner	A	ssociate	Average	Location	Trenton, NJ	Adjustment		Rate
Greene Infuso	Las Vegas, NV	\$	388	\$	225	\$	97	\$	169	\$ 266	102.7	122.2	119.1%	\$	316
Gregory K. Stern	Chicago, IL	\$	465	\$	440	\$	116	\$	330	\$ 446	117.4	122.2	104.1%	\$	465
Gruber Hurst Elrod Johansen Hail Shank	Dallas, TX	\$	490	\$	295	\$	123	\$	221	\$ 344	95.7	122.2	127.7%	\$	439
Haberbush & Associates	Long Beach, CA	\$	388	\$	175	\$	97	\$	131	\$ 228	131.0	122.2	93.3%	\$	213
Hall, Estill, Hardwick, Gable, Golden & Nelson	Tulsa, TX	\$	410	\$	225	\$	103	\$	169	\$ 271	88.4	122.2	138.3%	\$	375
Harter Secrest & Emery	Rochester, NY	\$	468	\$	245	\$	117	\$	184	\$ 301	99.9	122.2	122.4%	\$	368
Haynes and Boone	Dallas, TX	\$	750	\$	325	\$	188	\$	244	\$ 431	95.7	122.2	127.7%	\$	551
Hirschler, Fleischer	Richmond, VA	\$	440	\$	265	\$	110	\$	199	\$ 309	99.7	122.2	122.6%	\$	378
Holland & Knight	Washington, DC	\$	725	\$	575	\$	181	\$	431	\$ 613	141.6	122.2	86.3%	\$	529
Hughes Watters Askanase	Houston, TX	\$	420	\$	310	\$	105	\$	233	\$ 338	99.0	122.2	123.5%	\$	417
Irell & Manella	Los Angeles, CA	\$	1,135	\$	870	\$	284	\$	653	\$ 936	131.0	122.2	93.3%	\$	873
J. Bennett White	Tyler, TX	\$	350	\$	250	\$	88	\$	188	\$ 275	96.4	122.2	126.8%	\$	349
James & Haugland	El Paso, TX	\$	300	\$	225	\$	75	\$	169	\$ 244	90.8	122.2	134.5%	\$	328
Jeffer Mangels Butler and Marmaro	Los Angeles, CA	\$	695	\$	360	\$	174	\$	270	\$ 444	131.0	122.2	93.3%	\$	414
Jefferson & Brewer	Indianapolis, IN	\$	375	\$	250	\$	94	\$	188	\$ 281	91.1	122.2	134.2%	\$	377
Jeffrey Strange & Associates	Wilmette, IL	\$	450	\$	395	\$	113	\$	296	\$ 409	117.4	122.2	104.1%	\$	425
Johnson Pope Bokor Ruppel & Burns	Tampa, FL	\$	350	\$	298	\$	88	\$	224	\$ 311	92.9	122.2	131.6%	\$	409
Kasen & Kasen	Cherry Hill, NJ	\$	425	\$	350	\$	106	\$	263	\$ 369	121.2	122.2	100.9%	\$	372
Keller & Benvenutti	San Francisco, CA	\$	800	\$	400	\$	200	\$	300	\$ 500	159.9	122.2	76.5%	\$	382
King & Spalding	Atlanta, GA	\$	925	\$	530	\$	231	\$	398	\$ 629	93.5	122.2	130.7%	\$	822
Klee Tuchin Bogdanoff & Stern	Los Angeles, CA	\$	650	\$	493	\$	163	\$	370	\$ 532	131.0	122.2	93.3%	\$	497
Kos & Associates	Fort Wayne, IN	\$	300	\$	175	\$	75	\$	131	\$ 206	89.8	122.2	136.1%	\$	281
Krigel & Krigel	Kansas City, MO	\$	275	\$	225	\$	69	\$	169	\$ 238	98.0	122.2	124.7%	\$	296
Lakelaw	Chicago, IL	\$	650	\$	375	\$	163	\$	281	\$ 444	117.4	122.2	104.1%	\$	462
Lamberth, Cifelli, Stokes, Ellis & Nason	Macon, GA	\$	450	\$	300	\$	113	\$	225	\$ 338	89.4	122.2	136.7%	\$	461
Landau Gottfried & Berger	Los Angeles, CA	\$	565	\$	418	\$	141	\$	314	\$ 455	131.0	122.2	93.3%	\$	424
Langley & Banack	San Antonio, TX	\$	350	\$	350	\$	88	\$	263	\$ 350	87.6	122.2	139.5%	\$	488
Lansing Roy	Jacksonville, FL	\$	300	\$	250	\$	75	\$	188	\$ 263	95.5	122.2	127.9%	\$	336
Law Office of Daren M. Schlecter	Los Angeles, CA	\$	350	\$	150	\$	88	\$	113	\$ 200	131.0	122.2	93.3%	\$	187
Law Office of Robert M. Aronson	Los Angeles, CA	\$	400	\$	400	\$	100	\$	300	\$ 400	131.0	122.2	93.3%	\$	373
Law Offices of Langley & Chang	Riverside, CA	\$	425	\$	425	\$	106	\$	319	\$ 425	112.0	122.2	109.1%	\$	464
Law Offices of Michael Jay Berger	Beverly Hills, CA	\$	450	\$	345	\$	113	\$	259	\$ 371	131.0	122.2	93.3%	\$	346
Law Offices of Raymond H. Aver	Los Angeles, CA	\$	495	\$	300	\$	124	\$	225	\$ 349	131.0	122.2	93.3%	\$	325
LeClairRyan	Newark, NJ	\$	340	\$	250	\$	85	\$	188	\$ 273	128.4	122.2	95.2%	\$	259
Leslie Cohen Law	Santa Monica, CA	\$	575	\$	335	\$	144	\$	251	\$ 395	131.0	122.2	93.3%	\$	368
Levene Neale Bender Yoo & Brill	Los Angeles, CA	\$	575	\$	380	\$	144	\$	285	\$ 429	131.0	122.2	93.3%	\$	400
Locke Lord	Dallas, TX	\$	630	\$	415	\$	158	\$	311	\$ 469	95.7	122.2	127.7%	\$	599
Malaise Law Firm	San Antonio, TX	\$	275	\$	275	\$	69	\$	206	\$ 275	87.6	122.2	139.5%	\$	384
Marshack Hays	Irvine, CA	\$	550	\$	360	\$	138	\$	270	\$ 408	140.7	122.2	86.9%	\$	354
McAuliffe & Associates	Newton, MA	\$	300	\$	250	\$	75	\$	188	\$ 263	140.1	122.2	87.3%	\$	229
McCallar Law Firm	Savannah, GA	\$	400	\$	290	\$	100	\$	218	\$ 318	91.9	122.2	133.0%	\$	422
McDonald Carano Wilson	Las Vegas, NV	\$	425	\$	300	\$	106	\$	225	\$ 331	102.7	122.2	119.1%	\$	394

2016 Hourly Billing Rates						V	Veighted	Ave	rage Rate	Calculation	Cost of Livin	g (COL) Adjustr	nent (Note B)	1	
		2	016 Avg I	Billing	Rates		0.25		0.75	(A)	COL	Indices	(B)	(	AxB)
										Weighted	Law Firm	NJAW -	COL	A	djusted
Firm Name	Location	F	Partner	As	sociate	F	Partner	A	ssociate	Average	Location	Trenton, NJ	Adjustment		Rate
McDonald Hopkins	Cleveland, OH	\$	565	\$	330	\$	141	\$	248	\$ 389	98.2	122.2	124.5%	\$	484
McDowell Posternock Apell & Detrick	Maple Shade, NJ	\$	375	\$	338	\$	94	\$	254	\$ 347	121.2	122.2	100.9%	\$	350
McKool Smith	Dallas, TX	\$	750	\$	495	\$	188	\$	371	\$ 559	95.7	122.2	127.7%	\$	713
McNamee, Hosea, Jernigan, Kim, Greenan &	LGreenbelt, MD	\$	375	\$	325	\$	94	\$	244	\$ 338	127.4	122.2	95.9%	\$	324
Meland Russin & Budwick	Miami, FL	\$	500	\$	250	\$	125	\$	188	\$ 313	107.2	122.2	114.0%	\$	356
Merrill & Stone	Swainsboro, GA	\$	285	\$	285	\$	71	\$	214	\$ 285	89.4	122.2	136.7%	\$	390
Mesch Clark & Rothschild	Tucson, AZ	\$	463	\$	275	\$	116	\$	206	\$ 322	96.4	122.2	126.9%	\$	408
Mestone & Associates	North Andover, MA	\$	300	\$	300	\$	75	\$	225	\$ 300	103.6	122.2	117.9%	\$	354
Middlebrooks Shapiro	Springfield, NJ	\$	400	\$	300	\$	100	\$	225	\$ 325	133.0	122.2	91.9%	\$	299
Miles and Stockbridge	Baltimore, MD	\$	485	\$	320	\$	121	\$	240	\$ 361	111.3	122.2	109.9%	\$	397
Mirick, O'Connell, DeMallie & Lougee	Westborough, MA	\$	410	\$	280	\$	103	\$	210	\$ 313	103.6	122.2	117.9%	\$	369
Moon Wright & Houston	Charlotte, NC	\$	500	\$	260	\$	125	\$	195	\$ 320	96.1	122.2	127.1%	\$	407
Moore & Van Allen	Charlotte, NC	\$	573	\$	260	\$	143	\$	195	\$ 338	96.1	122.2	127.1%	\$	430
Morris Polich & Purdy	Las Vegas, NV	\$	575	\$	350	\$	144	\$	263	\$ 406	102.7	122.2	119.1%	\$	484
Morrison Cohen	New York, NY	\$	618	\$	475	\$	155	\$	356	\$ 511	221.3	122.2	55.2%	\$	282
Munsch Hardt Kopf & Harr	Dallas, TX	\$	588	\$	323	\$	147	\$	242	\$ 389	95.7	122.2	127.7%	\$	497
Nathan Horowitz	White Plains, NY	\$	450	\$	135	\$	113	\$	101	\$ 214	129.2	122.2	94.6%	\$	202
Norton Rose Fulbright	Houston, TX	\$	825	\$	355	\$	206	\$	266	\$ 473	99.0	122.2	123.5%	\$	584
Ogier Rothschild & Rosenfeld	Atlanta, GA	\$	450	\$	125	\$	113	\$	94	\$ 206	93.5	122.2	130.7%	\$	270
Olshan Frome Wolosky	New York, NY	\$	700	\$	290	\$	175	\$	218	\$ 393	221.3	122.2	55.2%	\$	217
Pachulski Stang Ziehl & Jones	Houston, TX	\$	938	\$	600	\$	235	\$	450	\$ 685	99.0	122.2	123.5%	\$	846
Parker Schwartz	Phoenix, AZ	\$	450	\$	375	\$	113	\$	281	\$ 394	97.3	122.2	125.6%	\$	495
Paul, Weiss, Rifkind, Wharton & Garrison	New York, NY	\$	1,240	\$	713	\$	310	\$	535	\$ 845	221.3	122.2	55.2%	\$	467
Pendergraft & Simon	Houston, TX	\$	500	\$	450	\$	125	\$	338	\$ 463	99.0	122.2	123.5%	\$	571
Platzer Swergold Karlin Levine Goldberg & Ja	as New York, NY	\$	590	\$	455	\$	148	\$	341	\$ 489	221.3	122.2	55.2%	\$	270
Porzio, Bromberg & Newman	Morristown, NJ	\$	675	\$	410	\$	169	\$	308	\$ 476	133.0	122.2	91.9%	\$	438
Quinn Emanual Urquhart & Sullivan	New York, NY	\$	1,103	\$	618	\$	276	\$	464	\$ 739	221.3	122.2	55.2%	\$	408
Rabinowitz, Lubetkin & Tully	Livingston, NJ	\$	412	\$	195	\$	103	\$	146	\$ 249	128.4	122.2	95.2%	\$	237
Rapport Osborne and Rapport	Boca Raton, FL	\$	573	\$	400	\$	143	\$	300	\$ 443	109.5	122.2	111.6%	\$	495
Red Hill Law Group	Irvine, CA	\$	390	\$	300	\$	98	\$	225	\$ 323	140.7	122.2	86.9%	\$	280
Reed Smith	New York, NY	\$	800	\$	575	\$	200	\$	431	\$ 631	221.3	122.2	55.2%	\$	349
Richards, Layton & Finger	Wilmington, DE	\$	763	\$	360	\$	191	\$	270	\$ 461	108.4	122.2	112.8%	\$	520
Ringstad & Sanders	Irvine, CA	\$	625	\$	375	\$	156	\$	281	\$ 438	140.7	122.2	86.9%	\$	380
Rogers Law Offices	Atlanta, GA	\$	325	\$	275	\$	81	\$	206	\$ 288	93.5	122.2	130.7%	\$	376
Roussos Lassiter Glanzer & Barnhart	Ashburn, VA	\$	390	\$	325	\$	98	\$	244	\$ 341	102.0	122.2	119.8%	\$	409
Salazar Jackson	Coral Gables, FL	\$	500	\$	358	\$	125	\$	269	\$ 394	96.3	122.2	126.9%	\$	499
Saul Ewing	Philadelphia, PA	\$	525	\$	335	\$	131	\$	251	\$ 383	121.2	122.2	100.9%	\$	386
Schafer and Weiner	Bloomfield Hills, MI	\$	376	\$	265	\$	94	\$	199	\$ 293	96.1	122.2	127.1%	\$	372
Schreeder, Wheeler & Flint	Atlanta, GA	\$	450	\$	280	\$	113	\$	210	\$ 323	93.5	122.2	130.7%	\$	421
Scott H. Marcus & Associates	Turnersville, NJ	\$	375	\$	240	\$	94	\$	180	\$ 274	121.2	122.2	100.9%	\$	276
Searcy & Searcy	Longview, TX	\$	400	\$	238	\$	100	\$	179	\$ 279	96.6	122.2	126.5%	\$	352
Shapiro Croland Reiser Apfel & Di Iorio	Hackensack, NJ	\$	373	\$	275	\$	93	\$	206	\$ 300	133.0	122.2	91.9%	\$	275

## New Jersey American Water Company **Estimated Billing Rates for New Jersey Attorneys**

2016 Hourly Billing Rates						٧	Veighted	Avera	age Rate	Calculation	Cost of Livin	g (COL) Adjustr	ment (Note B)	]	
		20	)16 Avg	Billing	Rates		0.25		0.75	(A)	COL	Indices	(B)	(	(A x B)
										- Weighte	Law Firm	NJAW -	COL	lα	diusted
Firm Name	Location	ΙF	artner	As	sociate	l	Partner	As	sociate	Average	Location	Trenton, NJ	Adjustment	l '`	Rate
Shaw Fishman Glantz & Towbin	Chicago, IL	\$	425	\$	210	\$	106	\$	158	\$ 264	117.4	122.2	104.1%	\$	275
Sheppard, Mullin, Richter & Hampton	Los Angeles, CA	\$	760	\$	488	\$	190	\$	366	\$ 556	131.0	122.2	93.3%	\$	519
Shulman Hodges & Bastian	Irvine, CA	\$	550	\$	295	\$	138	\$	221	\$ 359	140.7	122.2	86.9%	\$	312
Shulman Rogers Gandal Pordy & Ecker	Potomac, MD	\$	490	\$	320	\$	123	\$	240	\$ 363	127.4	122.2	95.9%	\$	348
Sidley Austin	Chicago, IL	\$	925	\$	738	\$	231	\$	554	\$ 785	117.4	122.2	104.1%	\$	817
Simon Resnik Hayes	Sherman Oaks, CA	\$	425	\$	365	\$	106	\$	274	\$ 380	131.0	122.2	93.3%	\$	354
Smith, Gilliam, Williams and Miles	Gainesville. GA	\$	290	\$	265	\$	73	\$	199	\$ 271	94.7	122.2	129.1%	\$	350
Speckman & Associates	San Diego, CA	\$	425	\$	295	\$	106	\$	221	\$ 328	129.2	122.2	94.6%	\$	310
Spencer Fane Britt & Browne	Kansas City, MO	\$	450	\$	268	\$	113	\$	201	\$ 314	98.0	122.2	124.7%	\$	391
Springer Brown	Wheaton, IL	\$	350	\$	315	\$	88	\$	236	\$ 324	117.4	122.2	104.1%	\$	337
Steffes Vingiello	Baton Rouge, LA	\$	350	\$	275	\$	88	\$	206	\$ 294	91.7	122.2	133.2%	\$	391
Stevenson & Bullock	Southfield, MI	\$	363	\$	275	\$	91	\$	206	\$ 297	96.1	122.2	127.1%	\$	378
Stichter, Riedel, Blain & Postler	Tampa, FL	\$	475	\$	210	\$	119	\$	158	\$ 276	92.9	122.2	131.6%	\$	364
Subranni, Ostrove & Zauber	Atlantic City, NJ	\$	350	\$	250	\$	88	\$	188	\$ 275	122.2	122.2	100.0%	\$	275
Sugar Felsenthal Grais & Hammer	Chicago, IL	\$	500	\$	360	\$	125	\$	270	\$ 395	117.4	122.2	104.1%	\$	411
SulmeyerKupetz	Los Angeles, CA	\$	585	\$	454	\$	146	\$	341	\$ 487	131.0	122.2	93.3%	\$	454
Taylor, Porter, Brooks & Phillips	Baton Rouge, LA	\$	375	\$	225	\$	94	\$	169	\$ 263	91.7	122.2	133.2%	\$	350
Tetzlaff Law Offices	Chicago, IL	\$	575	\$	250	\$	144	\$	188	\$ 331	117.4	122.2	104.1%	\$	345
The Callins Law Firm	Atlanta, GA	\$	175	\$	175	\$	44	\$	131	\$ 175	93.5	122.2	130.7%	\$	229
The Eidson Law Firm	Jacksonville, FL	\$	365	\$	233	\$	91	\$	175	\$ 266	95.5	122.2	127.9%	\$	340
The Fuller Law Firm	San Jose, CA	\$	465	\$	448	\$	116	\$	336	\$ 452	148.8	122.2	82.2%	\$	372
The Grant Law Firm	San Diego, CA	\$	550	\$	338	\$	138	\$	254	\$ 391	129.2	122.2	94.6%	\$	370
The Janvier Law Firm	Raleigh, NC	\$	435	\$	273	\$	109	\$	205	\$ 314	94.6	122.2	129.2%	\$	405
The Law Office of William J. Factor	Northbrook, IL	\$	350	\$	275	\$	88	\$	206	\$ 294	117.4	122.2	104.1%	\$	306
The Law Offices of Demetrius J. Parrish	Philadelphia, PA	\$	300	\$	275	\$	75	\$	206	\$ 281	121.2	122.2	100.9%	\$	284
The Law Offices of Jason A. Burgess	Jacksonville, FL	\$	295	\$	195	\$	74	\$	146	\$ 220	95.5	122.2	127.9%	\$	281
Thompson Burton	Franklin, TN	\$	375	\$	200	\$	94	\$	150	\$ 244	86.3	122.2	141.6%	\$	345
Tiemstra Law Group	Oakland, CA	\$	495	\$	300	\$	124	\$	225	\$ 349	134.9	122.2	90.6%	\$	316
Trenk DiPasquale Della Fera & Sodono	West Orange, NJ	\$	460	\$	240	\$	115	\$	180	\$ 295	128.4	122.2	95.2%	\$	281
Walker & Patterson	Houston, TX	\$	400	\$	300	\$	100	\$	225	\$ 325	99.0	122.2	123.5%	\$	401
Waller Lansden Dortch & Davis	Nashville, TN	\$	478	\$	250	\$	120	\$	188	\$ 307	86.3	122.2	141.6%	\$	435
Wasserman Jurista & Stolz	Basking Ridge, NJ	\$	550	\$	375	\$	138	\$	281	\$ 419	128.4	122.2	95.2%	\$	399
Weissberg & Associates	Chicago, IL	\$	450	\$	350	\$	113	\$	263	\$ 375	117.4	122.2	104.1%	\$	390
Winthrop Couchot	Newport Beach, CA	\$	673	\$	385	\$	168	\$	289	\$ 457	140.7	122.2	86.9%	\$	397
Young Conaway Stargatt & Taylor	Wilmington, DE	\$	678	\$	403	\$	170	\$	302	\$ 472	108.4	122.2	112.8%	\$	532
Zalkin Revell	Santa Rosa Beach, FL	\$	300	\$	300	\$	75	\$	225	\$ 300	97.6	122.2	125.2%	\$	376
•	·	•				•					Overall 2016 A	verage Hourly	Billing Rate	\$	404

Note A: Source is National Law Journal 2016 Billing Survey

Note B: Cost of Living Index, Source Council for Community and Economic Research



## New Jersey American Water Company Billing Rates of U.S. Management Consultants

Survey billing rates in effect in 2015 (Note A)

A. Calculation of Average Hourly Billing Rate by Consultant Position

Average

	Average	Hourly Rates	(Note A)									
Entry-Level Associate Senior Junior Senior												
Consultant	Consultant	Consultant	Partner	Partner								
\$ 173	\$ 227	\$ 280	\$ 323	\$ 388								

B. Calculation of Overall Average Hourly Billing Rate Based on a Typical Distribution of Time on an Engagement

Average Hourly Billing Rate (from above)

Percent of Consulting Assignment

Ent	ry-Level	As	sociate	S	Senior	J	lunior	5	Senior		
Co	nsultant	Со	nsultant	Co	nsultant	Р	artner	F	artner		
\$	173	\$	227	\$	280	\$	323	\$	388		
	25%		25%		25%		15%		10%	W	eighted
										A۱	/erage
\$	43	\$	57	\$	70	\$	48	\$	39	\$	258

Escalation to 2017 Test Year Midpoint (September 30, 2016)

CPI at December 31, 2015 236.5 CPI at September 30, 2016 241.4 Inflation/Escalation (Note B) 2.1%

263 Avg Hourly Billing Rate For Management Consultants During 2017 Test Year

Note A: Source is "Operating Ratios For Management Consulting Firms, 2016 Edition," Association of Management Consulting Firms

Note B: Source is U.S. Bureau of Labor Statistics (http://data.bls.gov/cgi-bin/surveymost)

## New Jersey American Water Company Billing Rates of New Jersey Certified Public Accountants

A. Calculation of Average Hourly Billing Rate by Public Accounting Position Survey billing rates were those in effect in 2015 (Note A)

Average Hourly Billing Rate by CPA Firm Position

Percent of Accounting Assignment

	Avera	age	Hourly Bi	lling	Rate (No	te A	١)	
	Staff		Senior					
Ac	countant	Ac	countant	М	anager	F	Partner	
\$	100	\$	143	\$	190	\$	251	
								Weighted
	30%		30%		20%		20%	Average
\$	30	\$	43	\$	38	\$	50	\$ 161

Average Hourly Billing Rate For CPAs At December 31, 2015 \$ 161 Escalation to 2017 Test Year Midpoint (September 30, 2016)

CPI at December 31, 2015 236.5 CPI at September 30, 2016 241.4 Inflation/Escalation (Note B) 2.1%

Avg Hourly Billing Rate For Management Consultants During 2017 Test Year \$ 164

Note A: Source is AICPA's 2016 National PCPS/TSCPA Management of an Accounting Practice Survey (New Jersey edition)

Note B: Source is U.S. Bureau of Labor Statistics (http://data.bls.gov/cgi-bin/surveymost)

## New Jersey American Water Company Billing Rates of Information Technology Professionals

A. Calculation of Average Hourly Billing Rate by Technology and Innovation Position Survey billing rates were those in effect in 2016 (Note A)

Average Hourly Billing Rate by T&I Position Category

		Ave	erage Ho	urly	Billing R	ate	(Note A)				
С	ontracto	r Po	sitions		Cor	sult	ant Posit	ions	3		
		5	Senior								
Со	ntractor	Co	ntractor	As	sociate	M	anager	F	Partner		
\$	101	\$	150	\$	263	\$	371	\$	464		
										W	eighted
	30%		30%		20%		10%		10%	A	verage
\$	30	\$	45	\$	53	\$	37	\$	46	\$	211

Percent of T&I Assignment

Average Hourly Billing Rate For T&I Professionals During 2016 211

Note A: Source is Baryenbruch & Company, LLC

## New Jersey American Water Company Billing Rates of New Jersey Engineers

## A. Calculation of Average 2016 Hourly Rate by Engineer Position

		Average Hour	ly Billing Rates	
		Engineer		
	Technician	Design Engineer	Project Manager	Officer
Name of Firm	Senior Technician	Project Engineer	Sr. Mgr. Engineer	Principal Engineer
Firm #1	\$93	\$109	\$180	\$230
Firm #2	\$72	\$89	\$150	\$195
Firm #3	\$78	\$113	\$182	\$231
Firm #4	\$107	\$127	\$208	\$250
Firm #5	\$145	\$132	\$198	\$281
Firm #6	\$101	\$119	\$180	\$216
Firm #7	\$93	\$108	\$140	\$205
Firm #8	\$86	\$103	\$142	\$198
Firm #9	\$88	\$95	\$138	\$180

## B. Calculation of Overall Average Engineering Hourly Billing Rate

		Engineer			
	Technician	Design Engineer	Project Manager	Officer	
	Senior Technician	Project Engineer	Sr. Mgr. Engineer	Principal Engineer	
Average Hourly Billing Rate (From Above)	\$96	\$110	\$169	\$221	
Typical Percent of Time on an Engineering Assignment	30%	35%	25%	10%	Weighted Average
	\$29	\$39	\$42	\$22	\$132

Source: Information provided by American Water Works Service Company

### Service Company versus Outside Provider Cost Comparison

As shown in the table below, Service Company costs per hour are considerably lower than those of outside providers.

	12 Months Ended March 31, 2017									
					D	ifference				
					S	ervice Co.				
		Service		Outside	Gr	eater(Less)				
Service Provider	(	Company		Provider	Th	an Outside				
Attorney	\$	273	\$	404	\$	(131)				
Management Consultant	\$	215	\$	263	\$	(48)				
Certified Public Accountant	\$	92	\$	161	\$	(69)				
T&I Professional	\$	116	\$	211	\$	(95)				
Professional Engineer	\$	89	\$	132	\$	(43)				

Based on these cost-per-hour differentials and the number of managerial and professional services hours billed to NJAW during the 12 months ended March 31, 2017, outside service providers would have cost \$15,768,398 more than the Service Company (see table below). Thus, on average, outside providers' hourly rates are 36% higher than those of the Service Company (\$15,768,398 / \$43.408.998).

		12 Month	ns Ended Marcl	h 3°	1, 2017
	H	ourly Rate			
	Di	fference	Service		
	S	ervice Co.	Company		
	Gre	eater(Less)	Hours		Dollar
Service Provider	Than Outside		Charged		Difference
Attorney	\$	(131)	7,304	\$	(959,125)
Management Consultant	\$	(48)	37,759	\$	(1,806,683)
Certified Public Accountant	\$	(69)	56,746	\$	(3,914,368)
T&I Professional	\$	(95)	77,852	\$	(7,411,159)
Professional Engineer	\$	(43)	39,312	\$	(1,677,062)
Service Company Les	s Th	an Outside F	Providers	\$	(15,768,398)

It should be noted that the cost differential associated with using outside providers is even greater because exempt Service Company personnel do not charge more than 8 hours per day even when they work more. Outside providers generally charge clients for all hours worked. Thus, NJAW would have been charged by outside providers for overtime worked by Service Company personnel who are not paid for that time.

If NJAW were to use outside service providers rather than the Service Company for managerial and professional services, it would incur other additional expenses besides those associated with higher hourly rates. Managing outside firms who would perform almost 219,000 hours of work (around 146 full-time equivalents at 1,500 "billable" hours per FTE per year) would add a significant workload to the existing NJAW management team. Thus, it would be necessary for NJAW to add at least three positions to supervise the outside firms and ensure they deliver quality and timely services. The individuals who would fill these positions would need a good understanding of each profession being managed. The persons must also have management experience and the authority necessary to give them credibility with the outside firms. As calculated in the table below, these positions would add more than \$447,000 per year to NJAW's personnel expenses.

## Cost of Adding 3 Professional Positions To NJAW's Staff

	 Total
New Positions' Salary	\$ 100,000
Benefits (at 49%)	\$ 49,000
Office Expenses (15%)	\$ 15,000
Total Cost per Position	\$ 149,000
Number of Positions Required	 3
Total Cost of Added NJAW Staff	\$ 447,000

Thus, the total effect on the ratepayers of NJAW of contracting all services now provided by Service Company would be an increase in their costs of \$16,215,398 (\$15,768,398 + \$447,000). Based on the results of this comparison, it is possible to conclude that the Service Company charged NJAW at the lower of cost or market for services provided during the 12 months ended March 31, 2017.

## **Background**

Customer Accounts Services involve the processes that occur from the time meter-read data is recorded in the customer information system through the printing and mailing of bills, concluding with the collection and processing of customer payments. Customer Accounts Services are accomplished by the following utility functions:

- Customer Call Center Operations customer calls/contact, credit, order taking/disposition, bill collection efforts and outage calls
- Customer Call Center Maintenance support of phone banks, voice recognition units, call center software applications and telecommunications
- Customer billing bill printing, stuffing and mailing
- Remittance processing processing customer payments received in the mail
- Bill payment centers processing customer payments at locations where customers can pay their bills in person

Neighboring electric utility cost information comes from the FERC Form 1 that each utility subject to FERC regulation must file. FERC's chart of accounts is defined in Chapter 18, Part 101 of the Code of Federal Regulations. FERC accounts that contain expenses related to customer accounts services are Account 903 Customer Accounts Expense - Records and Collection Expense and Account 905 Customer Accounts Expense - Miscellaneous Customer Accounts Expense. Exhibit 11 provides FERC's definition of the type of expenses that should be recorded in these accounts.

In addition to the charges in these FERC accounts, labor-related overhead charged to the following FERC accounts must be added to the labor components of Accounts 903 and 905:

- Account 926 Employee Pension and Benefits
- Account 408 Taxes Other Than Income (employer's portion of FICA)

#### **Comparison Group**

Electric utilities included in the comparison group are shown in the table below. These are companies whose FERC Form 1 reports show amounts for accounts 903 and 905.

New Jersey	Atlantic City Electric	Public Svc Electric & Gas
	Jersey Central Power	<ul> <li>Rockland Electric</li> </ul>
New York	Central Hudson Gas & Electric	<ul> <li>Niagara Mohawk</li> </ul>
	Consolidated Edison	<ul> <li>Orange &amp; Rockland Utilities</li> </ul>
	<ul> <li>New York State Elect &amp; Gas</li> </ul>	<ul> <li>Rochester Gas &amp; Electric</li> </ul>
Pennsylvania	Duquesne Light	<ul> <li>Pennsylvania Power</li> </ul>
	Metropolitan Edison	<ul> <li>PPL Electric Utilities</li> </ul>
	PECO Energy	<ul> <li>West Penn Power</li> </ul>
	Pennsylvania Electric	
Maryland	Baltimore Gas & Electric	<ul> <li>Potomac Edison</li> </ul>
	Delmarva Power & Light	<ul> <li>Potomac Electric</li> </ul>



## New Jersey American Water Company **FERC Account Descriptions**

## 903 - Customer Records and Collection Expenses

This account shall include the cost of labor, materials used and expenses incurred in work on customer applications, contracts, orders, credit investigations, billing and accounting, collections and complaints.

#### Labor

- 1. Receiving, preparing, recording and handling routine orders for service, disconnections, transfers or meter tests initiated by the customer, excluding the cost of carrying out such orders, which is chargeable to the account appropriate for the work called for by such orders.
- 2. Investigations of customers' credit and keeping of records pertaining thereto, including records of uncollectible accounts written off.
- 3. Receiving, refunding or applying customer deposits and maintaining customer deposit, line extension, and other miscellaneous records.
- 4. Checking consumption shown by meter readers' reports where incidental to preparation of billing data.
- 5. Preparing address plates and addressing bills and delinquent notices.
- Preparing billing data.
- 7. Operating billing and bookkeeping machines.
- 8. Verifying billing records with contracts or rate schedules.
- 9. Preparing bills for delivery, and mailing or delivering bills.
- 10. Collecting revenues, including collection from prepayment meters unless incidental to meter reading operations.
- 11. Balancing collections, preparing collections for deposit, and preparing cash reports.
- 12. Posting collections and other credits or charges to customer accounts and extending unpaid balances.
- 13. Balancing customer accounts and controls.
- 14. Preparing, mailing, or delivering delinquent notices and preparing reports of delinquent accounts.
- 15. Final meter reading of delinquent accounts when done by collectors incidental to regular activities.
- 16. Disconnecting and reconnecting services because of nonpayment of bills.
- 17. Receiving, recording, and handling of inquiries, complaints, and requests for investigations from customers, including preparation of necessary orders, but excluding the cost of carrying out such orders, which is chargeable to the account appropriate for the work called for by such orders.
- 18. Statistical and tabulating work on customer accounts and revenues, but not including special analyses for sales department, rate department, or other general purposes, unless incidental to regular customer accounting routines.
- 19. Preparing and periodically rewriting meter reading sheets.
- 20. Determining consumption and computing estimated or average consumption when performed by employees other than those engaged in reading meters.

#### Materials and expenses

- 21. Address plates and supplies.
- 22. Cash overages and shortages.
- 23. Commissions or fees to others for collecting.
- 24. Payments to credit organizations for investigations and reports.
- 25. Postage.
- 26. Transportation expenses, including transportation of customer bills and meter books under centralized billing procedure.
- 27. Transportation, meals, and incidental expenses.
- 28. Bank charges, exchange, and other fees for cashing and depositing customers' checks.
- 29. Forms for recording orders for services, removals, etc.
- 30. Rent of mechanical equipment.



## New Jersey American Water Company **FERC Account Descriptions**

## 905 - Miscellaneous Customer Accounts Expenses

This account shall include the cost of labor, materials used and expenses incurred not provided for in other accounts.

### Labor

- 1. General clerical and stenographic work.
- 2. Miscellaneous labor.

## Materials and expenses

- Communication service.
   Miscellaneous office supplies and expenses and stationery and printing other than those specifically provided for in accounts 902 and 903.



## **NJAW's Cost per Customer**

As calculated below, NJAW's customer accounts services expense per customer was \$20.92 for the 12 months ended March 31, 2017. The cost pool used to calculate this average includes charges for Service Company services (e.g., call center, billing, payment processing) and postage and forms expenses, which are incurred directly by NJAW. It was necessary to adjust the Service Company's National Call Center charges because electric utilities experience an average of 2.50 calls per customer compared to American Water's 1.05 calls per customer. Thus, National Call Center expenses had to be increased, for comparison purposes, to reflect its costs if it had had 2.50 calls per customer.

New Jersey America	n Water Company		Year Ended 3/31/17 Service Co		Adjustment Fewer Calls For		
	Cost Component		Charges	Wa	ater Cos. (A)	Adjusted	
Service Company							
Call Centers	Call processing, order processing, credit, bill collection	\$	7,611,976	\$	2,247,523	\$ 9,859,499	
Service Company	Customer payment processing					\$ 637,062	(B)
Operating Company	Postage & forms					\$ 3,537,317	
			C	ost	Pool Total	\$ 14,033,877	_
			To	tal C	Customers	670,704	
	Year Ended March 31, 2017 Cost Per N	ew J	ersey Americ	an (	Customer	\$ 20.92	

Note A: Adjustment for American Water's fewer calls per customer

This adjustment is necessary because water utilities experience fewer calls per customer than do electric utilities

Call handling expenses		\$ 1,627,482
Electric utility industry's avg calls/customer	2.50	
American Water's avg calls/customer	1.05	
Percent different	138%	138%
Total Adjustmer	nt	\$ 2.247.523

Note B: Estimated customer payment processing expenses

Number of customer bills 7,983,235 Bank charge per item \$ 0.0798 Total estimated annual expense \$

#### **Electric Utility Group Cost per Customer**

Exhibit 12 (pages 35-37) shows the calculation of customer accounts expense per customer for 2016 for the electric utility comparison group. All of the underlying data was taken from the utilities' FERC Form 1.



## New Jersey American Water Company Comparison Group 2016 Customer Accounts Expense Per Customer

				New J	ers	ey .				Maryland					
	Α	tlantic City	Je	rsey Central	Р	ublic Service	Rockland	В	altimore Gas		Delmarva		Potomac		Potomac
		Electric		Power	EI	ectric & Gas	Electric		& Electric	P	ower & Light		Edison		Electric
Customer Account Services Cost Pool															
FERC Account Balances:															
Acct 903 - Customer Records & Collection (page 322, line 161)	\$	54,784,495	\$	14,529,797	\$	75,788,531	\$ 3,656,047	\$	35,026,270	\$	48,942,082	\$	4,900,952	\$	79,094,511
Acct 905 - Misc Customer Accounts (page 322, line 163)	\$	-	\$	988,488	\$	85,545,980	\$ 106,315	\$	405,487	\$	-	\$	381,741	\$	-
Subtotal	\$	54,784,495	\$	15,518,285	\$	161,334,511	\$ 3,762,362	\$	35,431,757	\$	48,942,082	\$	5,282,693	\$	79,094,511
Add: Employee Benefits & Employer FICA (not included in above amounts)															
Account 926 - Employee Pension & Benefits (Note A)	\$	1,012,055	\$	5,275,624	\$	8,678,096	\$ 1,288,649	\$	5,033,341	\$	965,313	\$	67,459	\$	7,325,249
Account 408 - Taxes Other Than Income (Employer's Portion of FICA) (Note B)	\$	221,469	\$	576,300	\$	4,126,556	\$ 162,399	\$	1,740,691	\$	245,249	\$	157,753	\$	1,379,317
Total Cost Pool	\$	56,018,019	\$	21,370,210	\$	174,139,162	\$ 5,213,410	\$	42,205,789	\$	50,152,644	\$	5,507,906	\$	87,799,077
Total Customers (page 304, line 43)		548,442		1,113,459		2,227,065	73,117		1,268,995		516,709		402,327		848,171
Customer Account Services Expense per Customer	\$	102.14	\$	19.19	\$	78.19	\$ 71.30	\$	33.26	\$	97.06	\$	13.69	\$	103.52
Note A: Calculation of Pension & Benefits Pertaining to Customer Acct Mgmt															
Account 926 - Employee Pension & Benefits (page 323, line 187)	\$	12,070,521	\$	42,651,193	\$	57,947,857	\$ 6,686,875	\$	51,499,433	\$	15,229,519	\$	471,267	\$	32,396,514
Total O&M Payroll (page 355, line 65)	\$	34,528,085	\$	60,903,869	\$	360,196,296	\$ 11,015,626	\$	232,812,574	\$	50,578,193	\$	14,405,992	\$	79,740,443
Benefits as Percent of Payroll		35.0%		70.0%		16.1%	60.7%		22.1%		30.1%		3.3%		40.6%
Payroll Applicable to Customer Account Services															
Total Payroll Charged to Customer Accounts Function															
Electric (page 354, line 7)	\$	3,185,028	\$	13,691,062	\$	59,602,007	\$ 2,639,424	\$	23,801,205	\$	3,564,743	\$	3,664,255	\$	18,947,243
Percent Applicable to Customer Accounts Services (903 and 905):															
Acct 903 - Customer Records & Collection (page 322, line 161)	\$	54,784,495	\$	14,529,797	\$	75,788,531	\$ 3,656,047	\$	35,026,270	\$	48,942,082	\$	4,900,952	\$	79,094,511
Acct 905 - Misc Customer Accounts (page 322, line 163)	\$	-	\$	988,488	\$	85,545,980	\$ 106,315	\$	405,487	\$	-	\$	381,741	\$	-
Subtotal - Total Charges Applicable to Customer Accounts Services	\$	54,784,495	\$	15,518,285	\$	161,334,511	\$ 3,762,362	\$	35,431,757	\$	48,942,082	\$	5,282,693	\$	79,094,511
Acct 902 - Meter Reading Expenses (page 322, line 160)	\$	5,488,160	\$	12,684,585	\$	16,928,759	\$ 915,518	\$	1,630,452	\$	5,478,760	\$	4,104,236	\$	4,022,446
Total Charges Applicable to Customer Acccounts Svcs & Meter Reading	\$	60,272,655	\$	28,202,870	\$	178,263,270	\$ 4,677,880	\$	37,062,209	\$	54,420,842	\$	9,386,929	\$	83,116,957
Percent Applicable to Customer Accounts Services (903 and 905)		90.9%		55.0%		90.5%	80.4%		95.6%		89.9%		56.3%		95.2%
Customer Account Services Portion of Total Payroll	\$	2,895,014	\$	7,533,340	\$	53,941,907	\$ 2,122,857	\$	22,754,135	\$	3,205,866	\$	2,062,137	\$	18,030,291
Pension & Benefits Pertaining to Customer Accounts Services	\$	1,012,055	\$	5,275,624	\$	8,678,096	\$ 1,288,649	\$	5,033,341	\$	965,313	\$	67,459	\$	7,325,249
Note B: Calculation of Employer's FICA Pertaining to Customer Accts Services															
Customer Account Services Portion of Total Payroll	\$	2,895,014	\$	7,533,340	\$	53,941,907	\$ 2,122,857	\$	22,754,135	\$	3,205,866	\$	2,062,137	\$	18,030,291
Employer's Portion of FICA (6.20%) and Medicare (1.45%)		7.65%		7.65%		7.65%	7.65%		7.65%		7.65%		7.65%		7.65%
Estimated Employer's Portion of FICA	\$	221,469	\$	576,300	\$	4,126,556	\$ 162,399	\$	1,740,691	\$	245,249	\$	157,753	\$	1,379,317



## New Jersey American Water Company Comparison Group 2016 Customer Accounts Expense Per Customer

							P	ennsylvania						
		Duquesne	N.	/letropolitan		PECO	Р	ennsylvania	Р	Pennsylvania	F	PPL Electric	٧	Vest Penn
		Light		Edison		Energy		Electric		Power		Utilities		Power
Customer Account Services Cost Pool		_												
FERC Account Balances:														
Acct 903 - Customer Records & Collection (page 322, line 161)	\$	9,890,742	\$	6,691,643	\$	64,621,541	\$	7,124,347	\$	1,859,337	\$	39,550,471	\$	7,674,470
Acct 905 - Misc Customer Accounts (page 322, line 163)	\$	-	\$	451,846	\$	6,428,476	\$	516,307	\$	131,796	\$	2,478,973	\$	458,158
Subtotal	\$	9,890,742	\$	7,143,489	\$	71,050,017	\$	7,640,654	\$	1,991,133	\$	42,029,444	\$	8,132,628
Add: Employee Benefits & Employer FICA (not included in above amounts)														
Account 926 - Employee Pension & Benefits (Note A)	\$	3,424,468	\$	1,427,642	\$	6,263,005	\$	1,767,909	\$	360,540	\$	6,814,809	\$	820,225
Account 408 - Taxes Other Than Income (Employer's Portion of FICA) (Note B)	\$	685,392	\$	233,823	\$	2,363,598	\$	227,331	\$	34,178	\$	1,851,590	\$	240,474
Total Cost Pool	\$	14,000,602	\$	8,804,954	\$	79,676,620	\$	9,635,894	\$	2,385,850	\$	50,695,843	\$	9,193,326
Total Customers (page 304, line 43)		587,954		562,850		1,616,079		587,251		164,285		1,426,676		723,352
Customer Account Services Expense per Customer	\$	23.81	\$	15.64	\$	49.30	\$	16.41	\$	14.52	\$	35.53	\$	12.71
···	Ė		Ė		Ė		Ė		Ė		Ė		_	
Note A: Calculation of Pension & Benefits Pertaining to Customer Acct Mgmt														
Account 926 - Employee Pension & Benefits (page 323, line 187)	\$	29,425,711	\$	13,246,233	\$	38,821,728	\$	17,074,739	\$	4,260,419	\$	21,383,935	\$	6,090,691
Total O&M Payroll (page 355, line 65)	\$	76.985.893		28,359,582				28,700,577		5,279,379		75,948,162		23,342,104
Benefits as Percent of Payroll		38.2%	Ť	46.7%	Ė	20.3%	Ė	59.5%	Ė	80.7%	Ė	28.2%		26.1%
Payroll Applicable to Customer Account Services														
Total Payroll Charged to Customer Accounts Function														
Electric (page 354, line 7)	\$	12,108,546	\$	5,362,851	\$	31.173.617	\$	4,837,330	\$	690,475	\$	25,806,688	\$	5,493,577
Percent Applicable to Customer Accounts Services (903 and 905):	*	, ,	1	0,000,000	*	.,,	1	,,,,,,,,,,	,	223,	*		•	0, 100,011
Acct 903 - Customer Records & Collection (page 322, line 161)	\$	9,890,742	\$	6,691,643	\$	64,621,541	\$	7,124,347	\$	1,859,337	\$	39,550,471	\$	7,674,470
Acct 905 - Misc Customer Accounts (page 322, line 163)	\$	-	\$	451,846		6,428,476		516,307		131,796		2,478,973		458,158
Subtotal - Total Charges Applicable to Customer Accounts Services	\$	9,890,742	-	7,143,489	_	71,050,017		7,640,654	_	1,991,133	_	42,029,444		8,132,628
Acct 902 - Meter Reading Expenses (page 322, line 160)	\$	3,476,554		5,390,215		636,788		4,797,035		1,086,131		2,783,407		6,080,180
Total Charges Applicable to Customer Accounts Svcs & Meter Reading	\$	13,367,296			\$	71.686,805	_	12,437,689			\$	44,812,851	_	14,212,808
Percent Applicable to Customer Accounts Services (903 and 905)	Ψ.	74.0%	*	57.0%	•	99.1%	*	61.4%	Ĭ	64.7%	*	93.8%	Ψ.	57.2%
Customer Account Services Portion of Total Payroll	\$	8,959,367	\$	3,056,516	\$	30,896,704	\$	2,971,642	\$	446,769	\$	24,203,788	\$	3,143,448
Pension & Benefits Pertaining to Customer Accounts Services	\$	3,424,468		1,427,642		6,263,005		1,767,909		360,540		6,814,809		820,225
Note B: Calculation of Employer's FICA Pertaining to Customer Accts Services	<u> </u>	0, 12 1, 100	Ť	1, 121,012	۳	0,200,000	۳	1,1 01,000	Ť	000,010	۳	0,011,000	Ψ	020,220
Customer Account Services Portion of Total Payroll	\$	8,959,367	\$	3,056,516	s	30.896.704	\$	2,971,642	\$	446,769	<b>s</b>	24,203,788	\$	3,143,448
Employer's Portion of FICA (6.20%) and Medicare (1.45%)	ļ .	7.65%	•	7.65%	*	7.65%	"	7.65%	•	7.65%	*	7.65%	Ψ.	7.65%
Estimated Employer's Portion of FICA	\$	685,392	\$	233,823	\$	2,363,598	\$	227,331	\$	34,178	\$	1,851,590	\$	240,474
Editiated Employers Folder of Flort	Ψ	000,002	Ψ	200,020	Ψ	2,000,000	Ψ	221,001	Ψ	0-1, 170	Ψ	1,001,000	Ψ	2-10, -11



## New Jersey American Water Company Comparison Group 2016 Customer Accounts Expense Per Customer

					New	Yo	rk			
	Cei	ntral Hudson	Consolidated	Ne	w York State		Niagra	Orange &	Ro	chester Gas
	Ga	s & Electric	Edison	EI	lectric & Gas		Mohawk	Rockland		& Electric
Customer Account Services Cost Pool										
FERC Account Balances:										
Acct 903 - Customer Records & Collection (page 322, line 161)	\$	11,236,363	\$ 120,212,311	\$	28,835,863	\$	35,867,469	\$ 12,364,821	\$	13,128,200
Acct 905 - Misc Customer Accounts (page 322, line 163)	\$	993,135	\$ 523,229	\$	11,238,075	\$	3,049,713	\$ 79,245	\$	4,066,567
Subtotal	\$	12,229,498	\$ 120,735,540	\$	40,073,938	\$	38,917,182	\$ 12,444,066	\$	17,194,767
Add: Employee Benefits & Employer FICA (not included in above amounts)										
Account 926 - Employee Pension & Benefits (Note A)	\$	1,680,627	\$ 52,198,266	\$	106,584	\$	5,153,931	\$ 2,699,138	\$	(277,873)
Account 408 - Taxes Other Than Income (Employer's Portion of FICA) (Note B)	\$	497,911	\$ 7,288,020	\$	1,139,284	\$	1,325,070	\$ 545,093	\$	453,876
Total Cost Pool	\$	14,408,036	\$ 180,221,826	\$	41,319,807	\$	45,396,183	\$ 15,688,297	\$	17,370,771
Total Customers (page 304, line 43)		261,411	3,420,122		890,260		1,323,415	229,532		375,914
Customer Account Services Expense per Customer	\$	55.12	\$ 52.69	\$	46.41	\$	34.30	\$ 68.35	\$	46.21
Note A: Calculation of Pension & Benefits Pertaining to Customer Acct Mgmt										
Account 926 - Employee Pension & Benefits (page 323, line 187)	\$	18,845,000	\$ 431,840,065	\$	915,537	\$	86,306,165	\$ 28,707,534	\$	(2,642,530)
Total O&M Payroll (page 355, line 65)	\$	72,981,883	\$ 788,161,109	\$	127,924,381	\$	290,055,197	\$ 75,784,351	\$	56,422,203
Benefits as Percent of Payroll		25.8%	54.8%		0.7%		29.8%	37.9%		-4.7%
Payroll Applicable to Customer Account Services										
Total Payroll Charged to Customer Accounts Function										
Electric (page 354, line 7)	\$	7,620,785	\$ 120,063,894	\$	18,209,842	\$	18,335,272	\$ 8,968,781	\$	6,786,996
Percent Applicable to Customer Accounts Services (903 and 905):										
Acct 903 - Customer Records & Collection (page 322, line 161)	\$	11,236,363	\$ 120,212,311	\$	28,835,863	\$	35,867,469	\$ 12,364,821	\$	13,128,200
Acct 905 - Misc Customer Accounts (page 322, line 163)	\$	993,135	\$ 523,229	\$	11,238,075	\$	3,049,713	\$ 79,245	\$	4,066,567
Subtotal - Total Charges Applicable to Customer Accounts Services	\$	12,229,498	\$ 120,735,540	\$	40,073,938	\$	38,917,182	\$ 12,444,066	\$	17,194,767
Acct 902 - Meter Reading Expenses (page 322, line 160)	\$	2,089,680	\$ 31,424,078	\$	8,926,222	\$	2,278,464	\$ 3,219,366	\$	2,474,939
Total Charges Applicable to Customer Acccounts Svcs & Meter Reading	\$	14,319,178	\$ 152,159,618		49,000,160	\$	41,195,646	\$ 15,663,432	\$	19,669,706
Percent Applicable to Customer Accounts Services (903 and 905)		85.4%	79.3%		81.8%		94.5%	79.4%		87.4%
Customer Account Services Portion of Total Payroll	\$	6,508,640	\$ 95,268,240	\$	14,892,606	\$	17,321,178	\$ 7,125,393	\$	5,933,023
Pension & Benefits Pertaining to Customer Accounts Services	\$	1,680,627	\$ 52,198,266	\$	106,584	\$	5,153,931	\$ 2,699,138	\$	(277,873)
Note B: Calculation of Employer's FICA Pertaining to Customer Accts Services										
Customer Account Services Portion of Total Payroll	\$	6,508,640	\$ 95,268,240	\$	14,892,606	\$	17,321,178	\$ 7,125,393	\$	5,933,023
Employer's Portion of FICA (6.20%) and Medicare (1.45%)		7.65%	7.65%	_	7.65%		7.65%	7.65%		7.65%
Estimated Employer's Portion of FICA	\$	497,911	\$ 7,288,020	\$	1,139,284	\$	1,325,070	\$ 545,093	\$	453,876

Group Average \$ 931,204,225 19,167,386 **48.58** 



## **Summary of Results**

As shown in the table below, NJAW's cost per customer is well below than the 2016 average cost of the neighboring electric utility comparison group. It can be concluded that NJAW's 12 months ended March 31, 2017 customer accounts expenses, including those of the Alton and Pensacola Call Centers, assigned by the Service Company to NJAW are comparable to those of other utilities.

Customer Account Services Expenses	Per Custo	omer
West Penn Power Company	\$	12.71
Potomac Edison	\$	13.69
Pennsylvania Power Company	\$	14.52
Metropolitan Edison Company	\$	15.64
Pennsylvania Electric Company	\$	16.41
Jersey Central Power & Light Company	\$	19.19
New Jersey American Water	\$	20.92
Duquesne Light Company	\$	23.81
Baltimore Gas & Electric	\$	33.26
Niagra Mohawk	\$	34.30
PPL Electric Utilities Corporation	\$	35.53
Rochester Gas & Electric Corporation	\$	46.21
New York State Electric & Gas Corporation	\$	46.41
Comparison Group Average	\$	48.58
PECO Energy Company	\$	49.30
Consolidated Edison Company	\$	52.69
Central Hudson Gas & Electric Company	\$	55.12
Orange & Rockland	\$	68.35
Rockland Electric	\$	71.30
Public Service Electric & Gas Company	\$	78.19
Delmarva Power & Light Company	\$	97.06
Atlantic City Electric Company	\$	102.14
Potomac Electric	\$	103.52

### **Analysis of Services**

The final aspect of this study is an assessment of whether the services provided to NJAW by the Service Company would be necessary if NJAW were a stand-alone water utility. The first step in this evaluation was to determine specifically what the Service Company does for NJAW. Based on discussions with Service Company personnel, the matrix in Exhibit 13 (pages 40-42) was created showing which entity-NJAW or a Service Company location-is responsible for each of the functions NJAW requires to ultimately provide service to its customers. This matrix was reviewed to determine: (1) if there was redundancy or overlap in the services being provided by the Service Company and (2) if Service Company services are typical of those needed by a standalone water utility.

Upon review of Exhibit 13, the following conclusions can be drawn:

- The services that the Service Company provides are necessary and would be required even if NJAW were a stand-alone water utility.
- There is no redundancy or overlap in the services provided by the Service Company to NJAW. For all of the services listed in Exhibit 13, there was only one entity that was primarily responsible for the service.

## New Jersey American Water Company <a href="Designation of Responsibility for Water Utility Functions">Designation of Responsibility for Water Utility Functions</a>

P - Primarily Responsible	Performed By:											
S - Provides Support		Am	erican Water	Service Comp	any							
Water Company Function	NJAW	Customer Call Center	Central Services	T&I Service Centers	Central Lab							
Engineering and Construction Management												
CPS Preparation	Р		S									
Five-Year System Planning	Р		S									
Engineering Standards & Policies Development			Р									
Project Design												
Major Projects (e.g., new treatment plant)	Р		S									
Special Projects	Р		S									
Minor Projects (e.g., pipelines)	Р											
Construction Project Management												
Major Projects	Р		S									
Special Projects	Р											
Minor Projects	Р											
Hydraulics Review	Р											
Developers Extensions	Р											
Tank Painting	Р											
Water Quality and Purification												
Water Quality Standards Development	P (1)		P (1)		S							
Research Studies	S		Р		S							
Water Quality Program Implementation	Р		S		S							
Water Treatment Operations & Maintenance	Р		S									
Compliance Sampling	Р				S							
Testing/Other Sampling	Р				S							
Transmission and Distribution												
Preventive Maintenance Program Development	Р		S									
System Maintenance	Р		S									
Leak Detection	Р		S	-								
Customer Service												
Community Relations	Р											
Customer Contact	P (2)	P (2)										
Call Processing		Р										
Service Order Processing	Р	S										
Customer Credit		P										
Meter Reading	Р			S								
Customer Bill Preparation		P		S								
Bill Collection	S	P		S								
Customer Payment Processing	S		P	S								
Meter Standards Development	S			Р								
Meter Testing, Maintenance & Replacement	Р											

Note 1: NJAW responsible for State regulations, Central Services responsible for Federal regulations
Note 2: NJAW provides in-person customer contact while Service Company call centers provide customer phone contact



## New Jersey American Water Company <a href="Designation of Responsibility for Water Utility Functions">Designation of Responsibility for Water Utility Functions</a>

P - Primarily Responsible	Performed By:											
S - Provides Support		Am	erican Water	Service Comp	any							
Water Company Function	NJAW	Customer Call Center	Central Services	T&I Service Centers	Central Lab							
Financial Management												
Financial Planning			Р									
FinancingsEquity			Р									
FinancingsLong Term Debt & Preferred (Note A)			P									
Short Term Lines of Credit Arrangements(Note A)			P									
Investor Relations			P									
Insurance Program Administration			P									
Loss Control/Safety Program Administration			Р									
Pension Fund Asset Management			Р									
Cash Management/Disbursements			Р									
Internal Auditing			Р									
Budgeting and Variance Reporting												
Corporate Guidelines & Instructions			Р									
Budget Preparation												
Revenue and O&M			Р									
Depreciation and Interest Expense			Р									
Budget PreparationService Company Charges		s	Р	S	S							
Capital Budget Preparation—Projects	S		P									
Capital Budget Preparation—Non-Project Work	S		P									
Prepare Monthly Budget Variance Report			P									
(Budget/Plan Analysis)												
Prepare Capital Project Budget Status Report			P									
Year-End Projections			P									
Accounting and Taxes												
Accounts Payable Accounting			P									
Payroll Accounting			P									
Work Order Accounting			P									
Fixed Asset Accounting			P									
Journal Entry PreparationsBilling Corrections			P									
Journal Entry PreparationAll Others			Р									
Financial Statement Preparation			Р									
State Commission Reporting			Р									
Income TaxesState			Р									
Income TaxesFederal			Р									
Property Taxes			Р									
Gross Receipts (Town) Taxes			Р									

Note A: Lines of credit are the responsibility of American Water Capital Corporation (AWCC). AWCC is also responsible for Corporate financings which may be distributed to the regulated subsidiaries. NJAW has the abilility to issue LTD.



## New Jersey American Water Company <a href="Designation of Responsibility for Water Utility Functions">Designation of Responsibility for Water Utility Functions</a>

P - Primarily Responsible	Performed By:				
S - Provides Support	American Water Service Company				
Water Company Function	NJAW	Customer Call Center	Central Services	T&I Service Centers	Central Lab
Rates	-				
Rate Studies & Tariff Change Administration	Р		S		
Rate Case Planning and Preparation	Р		S		
Rate Case Administration	P		S		
Commission Inquiry Response	Р		S		
Legal	P		S		
Purchasing and Materials Management – National (pipe, chemicals, meters, etc.)	·		_		
Specification Development	S		Р		
Bid Solicitation	S		Р		
Contract Administration	S		Р		
Purchasing and Materials Management – State (state supplier service agreements)					
Specification Development	Р		S		
Bid Solicitation	Р				
Contract Administration	Р				
Ordering	Р				
Inventory Management	Р				
Human Resources Management					
Benefit Program Development			Р		
Benefits Program Administration			Р		
Management Compensation Administration			Р		
Wage & Salary Program Design			Р		
Wage & Salary Administration	S		Р		
Labor NegotiationsWages	S		Р		
Labor NegotiationsBenefits	S		Р		
Labor Negotiations Work Rules	S		Р		
Training Program Development	S		Р		
TrainingCourse Delivery	S		Р		
Affirmative Action/EEOPlan Development	S		Р		
Affirmative Action/EEOImplementation	Р		S		
Technology & Innovation Services					
Service Company Data Centers					
System Operations & Maintenance				Р	
Software Maintenance				Р	
Network Administration				Р	
Workstation Acquisition & Support	S			Р	
Help Desk				Р	



### **Governance Practices Associated with Service Company Charges**

There are several ways by which NJAW exercises control over Service Company services and charges. The most important of these are described below.

- 1. NJAW Company Board Oversight The NJAW board of directors includes members of American Water's Executive Management Team, members of the NJAW management team and external business and community leaders. This diverse board ensures that NJAW's needs are a factor in the delivery of Service Company services. The NJAW Board meets at a minimum of four times each year and at every meeting financial and operational reports and issues are discussed at length.
- 2. NJAW President Oversight The NJAW President is responsible for the overall performance of NJAW, including services and charges received from the American Water Service Company. The President of NJAW is also a board member on the Service Company's Board of Directors (see below for further discussion). In addition, as part of the overall management team of American Water through the President of Regulated Operations, NJAW's President has a significant voice in major business decisions of American Water. As one of nine direct reports to the Chief Operating Officer (COO) of Regulated Operations, NJAW's President has the ability to monitor Service Company performance quality and spending.
- 3. NJAW Director Finance and Treasurer The Director Finance and Treasurer is responsible for the financial reporting and performance, as well as the internal control performance of the NJAW. The Director Finance and Treasurer monitors the performance, expense and reporting from the Service Company and verifies and validates the cost of services received. In addition, the Director Finance and Treasurer through the Financial Analysis and Decision Support staff reviews the monthly charges and investigates whether the amount, quality and/or services are appropriate.
- 4. Service Company Board Oversight The Service Company Board of Directors is comprised of 16 members, of which NJAW President is one of the members. They typically meet four times a year to provide governance on the activities and bylaws of Service Company. Their primary responsibilities include:
  - Approve the Business Plan and Operating Budget
  - Review Financial Performance of the Service Center
  - Approve policy, procedures and practices of AW as it relates to Service Company.
- 5. Service Company Budget Review/Approval the NJAW president and several other state regulated water utility presidents serve on the Service Company board of directors and that board must formally approve the budget for Service Company charges for the next year. These budgeted charges are consolidated with the operating company's own spending into an overall budget which must be approved by the individual operating company's board of directors (e.g., NJAW).
- 6. Major Project Review and Approval Major non-capital projects undertaken by the Service Company must first be reviewed by American Water's Executive Management Team, which includes the COO of Regulated Operations. The COO of Regulated Operations, with significant input from his direct reports (including the NJAW president), has the ability to impact all new initiatives and projects before they are authorized. Major non-capital projects and initiatives for the Service Company are approved through the Business Plan. All significant business initiatives (capital or non-capital) are required to be submitted to the Operations Technology and Innovation Advisory Group for final approval.



The Advisory Group is comprised of 17 members, the majority being senior level executives of American Water (and includes NJAW president.)

- 7. Capital Investment Management (CIM) CIM covers capital and asset planning and is employed throughout American Water, including the Service Company. CIM provides a full range of governance practices, including a formal protocol for assessing system needs, prioritizing expenditures, managing the capital program, approving project spending, delivering projects and measuring outputs. CIM ensures that:
  - Capital expenditure plans are aligned with the strategic intent of the business
  - The impact of capital expenditure and income plans are fully reflected in operating expense plans
  - The impacts of these plans are understood and affordable
  - Effective controls are in place over budgets (through business plans) and individual capital projects (through appropriate authorization thresholds, management and reporting processes).

The CIM process was designed to optimize the effectiveness of asset investment.

- 8. Accounting and Financial Reporting Similar to the states, the Service Company follows the same accounting and financial reporting processes. During the month, accounting transactions are recorded. At month end, the Service Company Finance team reviews all transactions. Variance analyses are performed based on month to month actual as well as actual to budget to ensure accuracy. Once completed, the service company bill is run and the actuals are "pushed down" and allocated to the states based on predetermined formulas. A conference call is scheduled before the operating companies close their books each month to discuss Service Company performance. This is based at a functional level with explanation reported for those expense variances that meet or exceed certain thresholds. At this time, the operating companies may question expenses and spending for better understanding of results. NJAW Financial Analysis and Decision Support (FADS) personnel review the monthly Service Company bill for accuracy and reasonableness on a monthly basis. Any mistakes or overcharges are credited on a subsequent billing.
- 9. NJAW Company Budget Variance Reporting The "Budget/Plan Analysis," produced monthly by each operating company, has line items for Management Fees and Shared Service Expense (i.e., IT, Call Center, etc.). In this way, Service Company budget versus actual charges as charged to the operating company can be monitored and reviewed for the month and year-to-date as compared to prior year, plan and reforecast.

