

STATE OF NEW YORK  
PUBLIC SERVICE COMMISSION  
CASE 16-W-0130

IN THE MATTER OF A PROCEEDING ON MOTION  
OF THE COMMISSION AS TO THE RATES, CHARGES,  
RULES AND REGULATIONS OF

**SUEZ WATER NEW YORK INC.**

FOR WATER SERVICE

CASE NO. 16-W-0130

EXHIBITS OF DANIEL P. DUTHIE  
On behalf of  
The Municipal Consortium

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Bellvale, NY 10912  
845-988-0453  
duthie@strategicpower.com

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EXHIBIT --- (DPD-1)  
DUTHIE CV

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**DANIEL P. DUTHIE, ESQ.**

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**PROFESSIONAL EXPERIENCE**

**DANIEL P. DUTHIE, ESQ. (1990 to Present)**

Currently representing the Municipal Consortium in the Suez Water New York Inc. rate case that seeks 18.7% increases for average residential single family customer. Half of the increase is to recover abandoned desalination project expenditures.

Currently representing Saber Dobbs Ferry, LLC in a water main extension negotiation with United Water New Rochelle, leading to the filing of a Joint Petition seeking a waiver of PSC regulations that will save ratepayers almost \$500,000.

Currently representing The Gateway Development Group negotiating electric service from Con Edison for a public-private development in Bronxville. Also representing Gateway in a network electric service dispute with Eversource in Greenwich Connecticut.

Currently representing the Town of Milan, the Town of Pleasant Valley and Farmers and Families for Livingston in the Competitive Alternating Transmission Proceeding before the New York PSC. This is an unprecedented Article VII (of the Public Service Law) proceeding that sees four applicants proposing AC Transmission line projects to alleviate the alleged Central – East constraint in the state’s bulk power system. The proceeding was initiated as part of the Governor’s Energy Highway proposal.

Recently completed working with a Municipal Consortium opposing the United Water New York 28.9% rate increase. The Municipal Consortium consists of all five towns in Rockland County, Rockland County itself, the Rockland County Solid Waste Management Authority, the Nyack Public Schools, and four villages and two school districts. Rate increase was less than half requested.

Recently represented Town of Ramapo against a proposed desalination facility that would have double United Water New York rates and working closely with citizen groups was able to have the project rejected by the Public Service Commission along with an associated \$60 million surcharge.

Recently completed working with a Municipal Consortium opposing the United Water New Rochelle 22% rate increase. The MC consists of the following City of New Rochelle, Village of Dobbs Ferry, Village of Hastings, Village of Pelham, Village of Pelham Manor, Village of Bronxville, Village of Ardsley, Town of Eastchester and Village of Tuckahoe. Again the rate increase was less than half of that requested.

Currently working with the Towns of Clarkstown and Ramapo to acquire existing Orange and Rockland Utilities, Inc.'s overhead street lighting system under new SC-6 tariff (eff. July 1, 2012). Negotiations with O&R are completed for Clarkston and still underway for Ramapo to obtain a purchase price and other terms in the public interest pursuant to Section 70 of the New York Public Service Law.

Recently completed assignment from the Citizens for Local Power and the Municipal Consortium in Opposition to the Fortis acquisition of Central Hudson. Intervened after Joint Proposal had been filed. ALJs wrote a Recommended Decision against the acquisition. The Public Service Commission reversed the Recommended Decision and the acquisition was approved.

Recently completed representing East River Housing Corporation on a Petition for a Declaratory Order seeking a Public Service Commission determination that the Power Plant ERHC operates is not jurisdictional steam plant. Responsible for multi-year natural gas procurement via request for qualifications and request for proposals for Boiler Modernization Project, converting from No. 6 oil. Multi-million dollar project will pay back in less than two years due to gas/oil price differential and enhanced efficiency of new boiler and burner replacements in existing units. PSC Order issued granting ERHC a Certificate of Public Convenience and Necessity, along with a light-handed and incidental regulatory regime, retroactive to mid-1990, as a jurisdictional steam plant serving 2700 apartments in lower Manhattan.

Concluded negotiations on behalf of Wehran Energy Corporation in negotiations to obtain a long-term purchase power agreement with the Long Island Power Authority for output from the Brookhaven Landfill methane to electricity project.

Currently representing The Arker Companies and Progressive Management NY, Inc., in a petition to the PSC to modify a previously issued submetering order for Sea Park East, West and North (over 800 lower income apartments) that forbids the termination of electric service for non-payment.

Currently working with the St. Regis Mohawk Tribe to set up a regulatory commission that will oversee all telecommunication activities on the Akwesasne Reservation. Also assisting in the set-up of the wholesale broadband tribal business to be operated by Mohawk Networks. Starting to look at the economics of purchasing the electric system on the Reservation from Niagara Mohawk and set up a tribally owned and operated cooperative electric company

Represented the Municipal Consortium in Support of Reasonable Electric Rates in the recently completed Orange and Rockland Utilities, Inc., electric rate case before the Public Service Commission. The Municipal Consortium consists of the Towns of Clarkstown, Ramapo, Chester, Goshen, Highland Falls, Monroe, Tuxedo, Warwick, and Waywanda and the Villages of Chester, Florida, Monroe, Warwick and Haverstraw.

Represented the City of Buffalo, the City of Syracuse, Town of Amherst, the Town of Tonawanda and the Village of Kenmore in opposition to 2010 Niagara Mohawk Power

Corporation d/b/a National Grid rate increase pending before the New York Public Service Commission. Due to active intervention and development of expert testimony these five municipalities avoided \$1.5 million in increased street lighting costs.

Represented The Willows Home Owners Association, Inc. before the New York Public Service Commission in opposition to water rate increases by Aqua New York.

Represented Broome County before the PSC in opposition to NYSEG electric and gas rate increases decided in September 2010.

Represented the St. Regis Mohawk Tribe on various energy matters and successfully concluded franchise negotiations with Niagara Mohawk Power Corporation. Also represented SRMT in the National Grid – KeySpan merger proceeding before the NY PSC and in Federal Energy Regulatory Commission merger proceeding concluded in August 2007. Completed a Department of Interior funded project to determine the feasibility of exiting NMPC electric service. Working on exiting NMPC electric service and creating Mohawk Electric Cooperative – first electric cooperative in New York in 70 years.

Represented Wehran Energy Corporation in negotiations for a new Interconnection Agreement with the Long Island Power Authority and in opposition to a proposed change in the buy-back rates.

Represented Heritage Hills Society Ltd., a 2600 plus customer condo association in opposition to a proposed water rate increase pending before the NY PSC. Delayed increase by six months and cut it in half.

Represented the City of Utica and the Village of Sherburne in the New York Regional Interconnection Article VII proceeding (transmission line siting proceeding) before the NY PSC. Instrumental in creating delay by filing motion for additional information. NYRI withdrew its petition before the PSC and ended the ill-advised project.

Represented several investment funds in the acquisition of Energy East by Iberdrola before the NY PSC which concluded in September of 2008.

Providing legal advice and assistance to AalonBay Communities, Inc., Cappelli Enterprises and The Trump Organization on various electric, gas and water utility issues associated with large scale residential and commercial real estate developments, including the redevelopment of the Concord.

Various matters for Strategic Power Management, Inc. before FERC and the NY PSC, including an anti- competitive complaint against Orange and Rockland Utilities, Inc.

Qualified and testified as an expert witness on law and regulation before the New York State Public Service Commission (NY PSC) in obtaining on behalf of Northrop Grumman a Certificate of Public Convenience and Necessity to enable Northrop Grumman to operate, in competition with LILCO, a steam and electric system at Northrop's Bethpage site. This was the first new electric company in New York State in

many decades.

Qualified as an expert witness developing and testifying on a \$5.3 million refund claim for street lighting service on behalf of the City of Albany against Niagara Mohawk Power Corporation. Retained by Albany's counsel Nixon Peabody. Hearings concluded in early 2005. Case settled on terms favorable to Albany.

**LEBOEUF, LAMB, LEIBY & MACRAE<sup>1</sup>** (Partner 1983 – 1990; Associate Partner 1976 – 1982)

Extensive experience in the development and prosecution of rate applications of water, sewer, gas, electric and telecommunications utilities before federal and state public service commissions. This experience includes "first chair" responsibility for all aspects of administrative hearings, motion practice, brief writing, appellate advocacy and settlement procedures in multi-party proceedings.

Extensive experience with rate design, cost allocation and economic theory of pricing utility services.

Extensive experience representing major electric and gas utilities in various generic regulatory proceedings, including long range forecasting, nuclear performance standards, fuel clauses, management audits, performance based regulation and, most recently, electric industry restructuring initiatives.

Experience representing cogenerators and independent power producers in negotiations with utilities, contract disputes and litigation.

Extensive experience with state and federal jurisdictional issues in the natural gas and electric power industry.

Assistant Secretary and Counsel to an electric utility sponsored research, development and demonstration corporation (not for profit).

Special Counsel to clients on various privatization issues.

Special counsel to 22 municipal water districts on Long Island to lower electric power costs.

Co- or lead counsel in three condemnation proceedings representing the condemnees (three private water utilities companies).

Federal and state litigation experience.

Experience in complex arbitrations.

Pro-bono award --1994 from NYS Bar Association for work with

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<sup>1</sup> LeBoeuf Lamb merged with Dewey Ballantine in 2007 and became known as Dewey LeBoeuf. In 2012 Dewey LeBoeuf filed for bankruptcy – the largest law firm to do so in US history. Both firms were founded in the 1920s.

Nassau/Suffolk Law Service Committee, Inc.

**STRATEGIC POWER MANAGEMENT, Inc.** - Vice President, Secretary and General Counsel (1995 – 2004)

Founded Strategic Power Management, Inc. and participated in the development of the first retail access pilot program in New York State. Secured New York State Public Service Commission approval to provide retail electric and gas service in New York. Obtained a Federal Energy Regulatory Commission wholesale power marketing license. Reviewed all wholesale and retail electric contracts as well as represented SPM on the Management Committee of the New York Independent System Operator from its inception in November of 1999 to December 2004. Handled all legal and regulatory matters before the NYS PSC and FERC. SPM developed a unique business relationship that substantially reduced credit requirements.

### **ENGINEERING**

Licensed Professional Engineer -- New York State

Project Manager -- EBASCO Services - 1973 - 1976

Project Engineer -- Havens and Emerson - 1970 – 1973

### **EDUCATION**

MBA (Finance) Baruch College (CUNY) -- 2002

JD Fordham University School of Law-- 1976 (Admitted to Practice in NYS – 1977; NJ - 1983)

MSCE (Env. Eng.) Manhattan College --1972

BCE (Civil Eng.) Manhattan College-- 1970

**MEMBERSHIPS** (current or former): American Bar Association, Public Utility Committee; Administrative Law Committee New York State Bar Association, Public Utility Committee, Municipal Law Section; Energy Bar Association; Association of the Bar of City of New York, Energy Committee; New Jersey State Bar Association, Public Utility Section; Edison Electric Institute, Legal Committee; Long Island Association, Energy Committee; Fordham Law Alumni Association

### **TEACHING**

Participated in rate making Continuing Legal Education programs sponsored by the American Bar Association and the New York Bar Association; Lectured on land using planning and zoning for NBI. Presented in March, 2014 at NBI's Land Use Seminar on the importance and use of Comprehensive Planning. Will be presenting in July 2015 at NBI's municipal law program on zoning and eminent domain

## **CIVIC**

Town of Warwick Conservation Board, Chairman since 2003 (recently completed major investigation into hydraulic fracturing and recommended that the Town Board of Warwick ban same. Local laws were recently enacted banning heavy industrial land uses and the use of production fluids on Town Roads)

Member of Warwick's Comprehensive Planning Committee

Member of Sterling Forest Partnership (2005 to 2006); Member of Warwick Historical Society; Member Orange County Citizens Foundation; Member of Sustainable Warwick; and member Orange County Conservation Advisory Council



EXHIBIT --- (DPD-2)  
MC-10, ATTACHMENT B

Suez Water New York

Capital Expenditure Plan - List of Proposed Projects

Project ID	Project Title	HyperLink	Comments
C18A00x	LDF Treatment Plant Upgrade	C18A00x LDF Treatment Plt upgrad1A1	SIC Project
C16A101	Blue Lake Dam Improvements	C16A104 Blue Lake Dam1A1	
C16A102	DeForest Dam Stability/MPP/Inspection	DeForest Dam Stability1A1	SIC Project
C16A103	New test and production wells	C16A103 New Test Wells1A1	SIC Project
C16A104	Replace Production Wells	C16A104 replace production well1A1	
C16A100	Maintain WS Capacity/WQ & Short Term WS	Maintain Water Supply Capacity1A1	
C13A510	Well Site Improvement Projects	C16A501 Well Site Improvement1A1	
C16A500	Indian Kill Dam/Outlet upgrades	Indian Kill Dam_Outlet1A1	
C16A502	Dam Improvements	C16A502 Dam Improvements1A1	
C16A503	Rehab Spalled Concrete at LDF Dam	C16A503 DeForest Dam concrete1A1	
C16A504	Potake Pond Low Level Outlet Rehab	C16A504 Potake Pond Low Level ot1A1	
C17A502	RVWF Caisson Flood Protection	C17A502 RVWF Caisson1A1	
C17A501	Stony Point Dam	C17A501 SP Dam1A1	SIC Project
C17A503	Indian Kill Dam Improvement	C17A503 Indian Kill Dam1A1	SIC Project
C18A500	Potake Pond Stability Upgrades	C18A500 Potake Pond STA1	SIC Project
C20A100	LDF Watershed Restoration	C20A100 LDF Watershed1A1	
C16B100	GWUDI Treatment at RVWF 97	GWUDI Treatment1A1	
C16B101	GWUDI Treatment at Thiells 50	C16B101 GWUDI well 501A1	
C16B102	Sparkill Radionuclide Treatment	C16B102 Sparkill1A1	SIC Project
C16B500	Repl. Chem. Feed Equipment	C16B500 Repl Chem Feed Equip1A1	
C16B501	Replace Water Quality Monitoring Equ.	C16B501 Replace WQ Monit Equip1A1	
C16B502	Indian Kill Sludge Drain	C16B502 Indian Kill Sludge Drain1A1	
C16B503	Upgrade Grandview Arsenic Treatment	C16B503 Grandview arsenic1A1	
C16B504	Sludge Drying Bed Collection System	C16B504 Sludge drying bed1A1	
C17B100	Iron/Manganese Treatment at select wells	C17B100 Iron Manganese Treatment1A1	SIC Project
C17B110	LDF Sedimentation Basin Covers	C17B110 LDF sed basin cover1A1	
C17B500	RVWF Facility Overhaul	C17B500 RVWF overhaul1A1	
C17B501	LDF Hypo Storage Building	C17B501 Hypo building1A1	
C17B502	LDF Overhaul Traveling Screens	C17B502 Traveling Screens1A1	
C17B504	LDF Fish Deterrent	C17B504 Intake fish deterrent1A1	
C17B503	Sludge handling	C17B503 Sludge Lagoons1A1	SIC Project
C18B100	Well Deaeration Projects	C18B100 Well deaeration1A1	
C18B501	Blue Lake WTP Improvements	C18B501 Blue Lake Improvements1A1	
C17C100	South County Facility Improvements	C17C100 SC improvements1A1	
C16C500	SV Well Generator	C16C500 SV Generator1A1	
C16C501	Electrical Upgrades at Spring Valley Well Field	C16C501 Elect improvements SV1A1	
C16C502	Letchworth Pump Station Generator	C16C502 Letchworth Gen1A1	
C16C503	Indian Kill Finished Water Pump & MCC Replacement	C16C503 Indian Kill MCC1A1	
C16C504	LDF Projects	C16C504 LDF improvements1A1	
C16C505	Replace Instrumentation	C16C505 Replace instrumentation1A1	
C16C506	Well Instruments Low CL Cutoff	C16C506 Well Instruments Low CL1A1	
C16C507	Replace Well Pumps and Motors	C16C507 Repl Well Pumps and Mot1A1	
C16C508	Replace Booster Pumping Equipment	C16C508 Replace booster pumps1A1	
C16C509	SCADA Repl. - Hardware & Software	C16C509 SCADA1A1	
C16C510	kW Meters at Facilities	C16C510 kW meters1A1	
C16C511	Blaisdale Improvements	C16C511 Blaisdale1A1	
C18C500	Upgrades at Operating Facilities	C18C500 Upgrades at operating1A1	
C18C501	Rep. PRV & add Electric Valves	C18C501 replace PRVs1A1	
C19C500	Electrical Upgrades	C19C500 Electrical upgrades1A1	
C16D001	New Hydrants	C16D001 new hydrants1A1	
C16D002	New Short Mains & Valves	C16D002 short mains1A1	
C16D100	New Mains - Company Funded - UIRP	C16D100 New Mains Company Fund1A1	
C16D300	Extensions, Current Year Projects	C16D300 Extensions Current Year1A1	
C16D300	Extensions & Refunds, Prior Year Projects	C16D301 Exten & Refunds Prior YR1A1	
C16D501	Replacement Fire Hydrants	C16D501 replace hydr1A1	
C16D502	Replacement Short Mains & Valves	C16D502 Replace short mains1A1	
C16D503	Subdistrict Metering /DMAs	C16D503 DMA1A1	
C16D504	Pressure reduction	C16D504 Pressure reduction1A1	
C16D600	Main Replacement - UIRP	C16D600 Main Repl UIRP1A1	
C16D700	Highway Related Main Replacement	C16D700 Highway Related Main Re1A1	
C16E500	New Haverstraw Tank (Monsey Tank) (2MG)	C16E500 New Hstraw Tank (2 MG)1A1	SIC Project
C16E502	Tank Safety Improvements	Tank Safety Imps1A1	
C16E501	New 3 MG Haverstraw Tank	C16E502 3MG Haverstraw Tank1A1	SIC Project
C16E503	New Sterling Lakes Tank	C16E503 Sterling Tank1A1	
C16E504	Rebuild Valve Vault and roadway at Indian Kill Tank	C16E504 IK Valve Vault1A1	
C20E501	Remote Controlled Valves	C20E501 Remote valve1A1	
C16F001	New Domestic Services (Company Only)	C16F001 new Dom1A1	
C16F003	New Fire Services (Company Only)	C16F003 new fire1A1	
C16F501	Replacement Domestic Services	C16F501 repl services1A1	
C16G001	New Customer Meters	C16G001 new meters1A1	
C16G002	New RF Units	C16G002 new RFs1A1	
C16G501	Replacement Customer Meters	C16G501 repl meters1A1	
C16G502	Replacement RF Devices	C16G502 repl RFs1A1	
C16G503	Fixed Meter Reading System	C16G503 Fixed meter system1A1	
C16G504	Production Flow Meter Repl	C16G504 Production meters1A1	
C16J101	Water Level Monitoring Devices at Wells	C16J101 Water Level Monitoring1A1	
C16J100	GIS	C16J100 GIS1A1	
C16J102	Blue Lake Regulator SCADA	C16J102 Blue Lake SCADA1A1	
C16J103	Maplebrook Regulator SCADA	C16J103 Maplebrook SCADA1A1	
C17J100	SCADA/Flow Meters at Interconnections	C16J100 SCADA Interconnections1A1	
C17J101	IT Server Upgrade	C17J101 IT server1A1	
C16J501	Printers and Plotters	C16J501 Printer1A1	
C18J101	Hydraulic Modeling	C18J101 Hydraulic Model1A1	
C16K100	Leak Detection	C16K100 Leak detection1A1	
C16K101	Arc Flash Improvements	C16K101 Arc Flash1A1	
C16K102	Facilities Safety and Security	C16K102 Facilities Safety & Sec1A1	
C16K103	LDF Security Fence	C16K103 LDF fence1A1	
C16K104	New Tools and Work Equipment	C16K104 New Tools1A1	
C16K500	General Building Improvements	C16K500 Building Imp1A1	
C16K502	Repl Tools and Work Equipment	C16K502 Repl Tools1A1	
C17K101	Heated Meter Storage Shed	C17K101 Meter storage shed1A1	
C18K500	WN Building Improvements	C18K500 WN Building Improvment1A1	
C18K501	Underground Vaults Safety Improvements	C18K500 Underground vault1A1	
C16M100	Water supply / UIRP Design	C16M100 Design1A1	
C16M101	Ramapo River Basin Optimization non SIC portion	C16M101 Ramapo Opt non SIC 1A1	
C16M101	Ramapo River Basin Optimization SIC Portion	C16M101 Ramapo Opt SIC1A1	
C17M100	UWNY System Surge Analysis	C17M100 Surge analysis1A1	

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**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C15A104**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	110	2000	15000	15000	5,000.0	37,110.0
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	110	2000	15000	15000	5000	37110

**Cost estimate Available**

**Cost Estimate Sheet**

**2015**  
**Project ID: C15A104**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2015	2016	2017	2018	2019	Total
<b>Expenditures</b>		924				924.0
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0	924	0	0	0	924

**Cost estimate Available**

Cost Estimate	
Payment to Watchtower	\$823,888
Company time	\$456
Overheads	\$99,278
<b>Total</b>	<b>\$923,622</b>

**Cost Estimate Sheet**

**Suez Water New York**  
Business Unit #

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**2915**

**Project ID: C16M101**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	43.7	82.2	218.6	164.3	5542.3	10729.8	16781.0
<b>(Advances/CIAC)</b>							0.0
<b>Net</b>	43.7	82.2	218.6	164.3	5542.3	10729.8	16781.0

**Cost estimate Available**

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**

**Business Unit #**

**Project ID: C16A100**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	326.2	799.1	219.1	542.9	806.2	2693.4
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	326.2	799.1	219.1	542.9	806.2	2693.4

**Cost estimate Available**

CT Piping Engineering estimate per site. Multiple projects may be completed in a year	
Design	\$40,000
Materials	\$18,800
Construction	\$125,000
Company time	\$5,000
Inspection	\$15,000
Contingency	\$20,768
Overheads	\$33,685
<b>Total</b>	<b>\$258,253</b>

NYU Well - Engineering estimate	
Design/Permit	\$40,000
Materials	\$15,000
Construction	\$70,000
Electrical	\$20,000
Company time	\$10,000
Inspection	\$15,000
Contingency	\$20,150
Overheads	\$28,523
<b>Total</b>	<b>\$218,673</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C16A103**

**Suez Water New York**  
**Business Unit #** 200

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**Project Title:** New Test Wells & Production Wells

**Year Initiated:** 2017

**Year in-service:** 2018

**Major Milestones:** 2016 Evaluations & start permits

2016- 2017 Drill test wells and evaluate water quality

2017 Begin permitting new production well

2018 - begin permitting test well for production wells

2019 begin installation of new production wells from test wells

2020 Continue installation of new production wells

**UW Project Classification:** Water Supply

**Priority/Category:** Environmental Compliance

	2016	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	50	101	225	3,274	3,050	3,054	9,754
<b>(Advances/ CIAC)</b>							0.0
<b>Net</b>	50	101	225	3,274	3,050	3,054	9,754

**Cost estimate Available** See June 2015 Report on the Feasibility of Incremental Water Supply Projects and Conservation Opportunities in Rockland County, New York

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16A104**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	219.3	336.3	575.2	570.0	564.3	2,265.1
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	219.3	336.3	575.2	570.0	564.3	375.0

**Cost/Benefit Analysis Available:**



**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16A500**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	289.4	115.1				404.6
<b>(Advances/CIAC)</b>						0
<b>Net</b>	289.4	115.1	0.0	0.0	0.0	404.6

**Cost Estimate Available:**

Indian Kill Dam outlet - Engineering estimate	
Design/Permit	\$40,000
Survey	\$8,000
Construction	\$210,000
Material	\$15,000
Diver	\$20,000
Company time	\$10,000
Inspection	\$15,000
Contingency	\$30,300
Overheads	\$52,245
<b>Total</b>	<b>\$400,545</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16A501**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Beyond	Total
<b>Expenditures</b>	55.6	54.8	111.9	82.2	114.0	112.9	531.3
<b>(Advances/CIAC)</b>							0.0
<b>Net</b>	55.6	54.8	111.9	82.2	114.0	112.9	531.3

**Cost Estimate Available:**

Engineering cost estimate for typical improvement work	
Roof Replacement	\$15,000
Relief Valve	\$12,000
Electrical work	\$5,000
Flow meters	\$5,000
Heaters	\$1,500
Driveway Improvements	\$10,000
Building Improvements	\$7,500
<b>Total</b>	<b>\$56,000</b>

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**

**Business Unit #**

**Project ID: C16A502**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Beyond	Total
<b>Expenditures</b>	55.1	54.8	54.7	54.8	54.3	53.7	327.4
<b>(Advances/CIAC)</b>							0.0
<b>Net</b>	55.1	54.8	54.7	54.8	54.3	53.7	327.4

**Cost Estimate Available:**

Engineering cost estimate	
Consultant	\$25,000
Company Time	\$20,000
Contingency	\$2,250
Overheads	\$6,750
<b>Total</b>	<b>\$54,000</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16A503**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	150.0	109.7				259.7
<b>(Advances/CIAC)</b>						0

**Cost Estimate Available:**

LDF Concrete Engineering estimate	
Design	\$12,000
Survey	\$5,000
Construction	\$175,000
Company time	\$5,000
Inspection	\$10,000
Contingency	\$19,700
Overheads	\$34,005
<b>Total</b>	<b>\$260,705</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16A504**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	221.0					221.0
<b>(Advances/CIAC)</b>						0

**Cost Estimate Available:**

Potake Pond Engineering estimate	
Design	\$15,000
Permitting	\$5,000
Survey	\$15,000
Construction	\$115,000
Company time	\$5,000
Inspection	\$20,000
Contingency	\$15,500
Overheads	\$28,575
<b>Total</b>	<b>\$219,075</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C17A503**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	148.6	160.1	127.0	108.6	5,239.2	5783.5
<b>(Advances/CIAC)</b>						0
<b>Net</b>	148.6	160.1	127.0	108.6	5239.2	5783.5

**Cost estimate Available**

**Cost Estimate Sheet**

**2015**  
**Project ID: C17A503**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	-	207.0	1,048.0	167.0		1422.0
<b>(Advances/CIAC)</b>						0
<b>Net</b>	0.0	207.0	1048.0	167.0	0.0	1422.0

**Cost estimate Available**

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C17A502**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	-	-	273.3	-	325.7	0.0
<b>(Advances/CIAC)</b>						0
<b>Net</b>	0.0	0.0	273.3	0.0	325.7	599.0

**Cost Estimate Available:**

RVWF Caisson Engineering estimate	
Design	\$30,000
Survey	\$10,000
Construction	\$150,000
Company time	\$5,000
Inspection	\$25,000
Contingency	\$19,500
Overheads	\$35,925
<b>Total</b>	<b>\$275,425</b>



**Cost Estimate Sheet**

**2015**  
**Project ID: C18A500**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	-	-	273.3	-	325.7	0.0
<b>(Advances/CIAC)</b>						0
<b>Net</b>	0.0	0.0	273.3	0.0	325.7	599.0

**Cost estimate Available**

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C20A100**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	-	-			217.1	217.1
<b>(Advances/CIAC)</b>						0
<b>Net</b>	0.0	0.0	0.0	0.0	217.1	217.1

**Cost Estimate Available:**

Watershed Engineering estimate	
Design	\$5,000
Survey	\$20,000
Installation	\$150,000
Company time	\$10,000
Overheads	\$27,750
<b>Total</b>	<b>\$212,750</b>

Cost Estimate Sheet

C16M101

Ramapo River Supply Optimization

**Cost Estimate Sheet**

**2015**

**Project ID: C16B100**

**Suez Water New York**

**Business Unit #** 200

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**Project Title:** GWUDI treatment well 97

**Year Initiated:** 2014

**Year in-service:** 2017

**Major Milestones:** 2012 Review GWUDI notice from DOH

2014 Begin design

2017 Complete Design

2018 Complete construction

**UW Project Classification:** Water Treatment

**Priority/Category:** Regulator Commission Compliance

	2014	2015	2016	2017	2018	Total
<b>Expenditures</b>	75.0	10.0	110.3	548.3	1,311.8	2,055.3
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	75.0	10.0	110.3	548.3	1311.8	2055.3

**Cost Estimate Available:** Yes

RWVF 97 GWUDI Engineering estimate	
Design	\$75,000
Survey	\$20,000
Building	\$411,061
Electrical	\$267,190
Well Pump	\$61,659
Equipment	\$739,910
Instrumentation	\$205,531
Overheads	\$267,053
<b>Total</b>	<b>\$2,047,404</b>

**Cost Estimate Sheet**

**2015**

**Project ID: C19B101**

**Suez Water New York**

**Business Unit # 200**

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**Project Title:** GWUDI treatment well 50

**Year Initiated:** 2019

**Year in-service:** 2020

**Major Milestones:** 2012 Review GWUDI notice from DOH

2019 Begin design

2019 Complete Design

2020 Construction

**UW Project Classification:** Water Treatment

**Priority/Category:** Regulator Commission Compliance

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>				164.3	1,194.3	1,358.6
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	0.0	0.0	164.3	1194.3	1358.6

**Cost Estimate Available:** Yes

Thiells 50 GWUDI Engineering estimate	
Design	\$60,000
Survey	\$8,000
Building	\$271,723
Electrical	\$176,620
Well Pump	\$40,758
Equipment	\$489,101
Instrumentation	\$135,861
Overheads	\$177,310
<b>Total</b>	<b>\$1,359,373</b>

**Cost Estimate Sheet**

**2015**

**Project ID: C16B102**

**Suez Water New York**

**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**SW Project Classification:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	75.0	109.7	109.3	2,215.0		2,509.0
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	75.0	109.7	109.3	2215.0	0.0	2509.0

**Cost estimate Available**

**Cost Estimate Sheet**

**2015**  
**Project ID: C16B500**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	29.2	40.1	37.3	38.3	38.0	183.0
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	29.2	40.1	37.3	38.3	38.0	183.0

**Cost Estimate Available:**

Repl Chem Feed Equipment Engineering estimate per project per site. Multiple projects are completed each year. Costs vary by project	
Equipment	\$5,000
Electrical	\$1,000
Company time	\$500
Overheads	\$975
<b>Total</b>	<b>\$7,475</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C16B501**

**Suez Water New York**  
**Business Unit # 200**

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**Project Title:** Replace WQ Monitoring

**Year Initiated:** 2016

**Year in-service:** 2016

**Major Milestones:** 2016 - 2016 projects in service

2017 - 2017 projects in service

2018 - 2018 projects in service

2019 - 2019 projects in service

**UW Project Classification:** Water Treatment

**Priority/Category:** Regulator Commission Compliance

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	27.6	54.8	54.7	54.8	54.3	246.1
<b>(Advances/CIAC)</b>						
<b>Net</b>	27.6	54.8	54.7	54.8	54.3	246.1

**Cost Estimate Available:** Yes

Repl WQ Equipment Engineering estimate per project per site. Multiple projects are completed each year. Costs vary by project	
Equipment	\$5,000
Electrical	\$1,000
Company time	\$500
Overheads	\$975
<b>Total</b>	<b>\$7,475</b>



**Cost Estimate Sheet**

**2015**

**Project ID: C16B502**

**Suez Water New York**

**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	22.0					22.0
<b>(Advances/CIAC)</b>						0

**Cost Estimate Available:**

Indian Kill Sludge Drain Engineering estimate	
Design	\$1,000
Survey	\$2,000
Equipment	\$2,000
Electrical	\$1,000
Contractor	\$12,000
Company Time	\$1,500
Overheads	\$2,925
<b>Total</b>	<b>\$22,425</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C16B503**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

	Previous	2016	2017	2018	Beyond	Total
<b>Expenditures</b>		55.1	822.4	218.6		1,096.2
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	55.1	822.4	218.6	0.0	1,096.2

**Cost estimate Available**

**Cost Estimate Sheet**

**2015**  
**Project ID: C16C504**

**Suez Water New York**

**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2015	2016	2017	2018	Beyond	Total
<b>Expenditures</b>		100.0	2,741.4			2,841.4
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	100.0	2,741.4	0.0	0.0	2,841.4

**Cost/Benefit Analysis Available:** Yes

Sludge Drying Bed and Baffles Engineering estimate	
Design	\$20,000
Survey	\$5,000
Permitting	\$10,000
Grading	\$20,000
Material	\$275,000
Equipment Replace liner	\$200,000
Equipment Replace baffles	\$250,000
Replace drainage & Install liner	\$700,000
Install Baffles	\$500,000
Inspection	\$100,000
Company Time	\$75,000
Contingency	\$323,250
Overheads	\$371,738
<b>Total</b>	<b>\$2,849,988</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C17B100**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

	2017	2018	2019	2020	Beyond	Total
<b>Expenditures</b>	198.0	194.6	199.6	432.0		1,024.2
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	198.0	194.6	199.6	432.0	0.0	1,024.2

**Cost estimate Available**

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C17B110**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2015	2016	2017	2018	Beyond	Total
<b>Expenditures</b>			65.8			65.8
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	0.0	65.8	0.0	0.0	65.8

**Cost estimate Available**

Sed Basin Engineering estimate	
Design	\$1,000
Survey	\$2,000
Equipment	\$20,000
Contractor	\$30,000
Company Time	\$4,000
Overheads	\$8,550
<b>Total</b>	<b>\$65,550</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C17B500**

**Suez Water New York**  
**Business Unit #** 200

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**Project Title:** RVWF Overhaul

**Year Initiated:** 2017

**Year in-service:** 2019

**Major Milestones:** Spring 2017 Begin Design

2017 Design new High Lift Pumps and evaluate VFDs

2018 Complete permitting of High Lifts & order equipment

Spring 2019 Begin replacing meters and installing power meters

Fall 2019 Begin replacing High Lift pumps install VFDs

2020 Complete replacing High Lift pumps install VFDs

	2017	2018	2019	2020	Beyond	Total
<b>Expenditures</b>	54.8	82.0	547.8	542.9	430.0	1,657.4
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	54.8	82.0	547.8	542.9	430.0	1,657.4

**Cost estimate Available** Yes

Engineering estimate for improvements. Multiple projects may be completed in a year		Total for Well Field
Design	\$75,000	\$75,000
High Lift Pump (per pump)	\$240,000	960000
VFD for High Lifts (per VFD)	\$70,000	280000
Power Meters	\$3,500	\$28,000
Company time	\$20,000	\$20,000
Inspection	\$15,000	\$15,000
Contingency	\$31,080	\$67,150
Overheads	\$68,187	\$216,773
<b>Total</b>	<b>\$522,767</b>	<b>\$1,661,923</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C17B504**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2015	2016	2017	2018	Beyond	Total
<b>Expenditures</b>		0.0	260.0			260.0
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	0.0	260.0	0.0	0.0	260.0

**Cost estimate Available** Yes

Hypo Building Engineering estimate	
Design	\$10,000
Survey	\$2,000
Permitting	\$5,000
Building	\$75,000
Electrical	\$15,000
Piping	\$15,000
Contractor	\$100,000
Company Time	\$5,000
Overheads	\$34,050
<b>Total</b>	<b>\$261,050</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C17B503**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	0	247.8	-			247.8
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	247.8	0.0	0.0	0.0	247.8

**Cost estimate Available** Yes

Intake Engineering estimate	
Design	\$10,000
Diver	\$20,000
Permitting	\$10,000
Material	\$5,000
Installation	\$160,000
Company Time	\$10,000
Overheads	\$32,250
<b>Total</b>	<b>\$247,250</b>



**Cost Estimate Sheet**

**2015**  
**Project ID: C17B502**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	0	-	-	115.0	1,628.6	1,743.6
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	0.0	0.0	115.0	1,628.6	1,743.6

**Cost estimate Available**

**Cost Estimate Sheet**

**2015**  
**Project ID: C17B503**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	0	-	-	108.0	3,092.4	3,200.4
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	0.0	0.0	108.0	3,092.4	3,200.4

**Cost estimate Available**

**Cost Estimate Sheet**

**2015**  
**Project ID: C18B100**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	0	532.7	-	542.9		1,075.5
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	532.7	0.0	542.9	0.0	1,075.5

**Cost estimate Available** Yes

Engineering estimate per site	
Design	\$25,000
Permitting	\$15,000
Equipment	\$150,000
Construction	\$200,000
Inspection	\$30,000
Company Time	\$10,000
Contingency	\$43,000
Overheads	\$64,500
<b>Total</b>	<b>\$537,500</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C188501**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	0	-	109.6	217.1	1,000.0	1,326.7
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	0.0	109.6	217.1	1,000.0	1,326.7

**Cost estimate Available** Yes

Engineering estimate per Project	
Design	\$75,000
Roof	\$20,000
MCC	\$150,000
Door Replacement	\$10,000
Safety Improvements	\$35,000
Replace retaining wall	\$18,000
Electrical Improvements	\$20,000
Fencing and cameras	\$75,000
Treatment Improvements	\$500,000
Replace driveway	\$75,000
Inspection	\$75,000
Company Time	\$20,000
Contingency	\$107,300
Overheads	\$160,950
<b>Total</b>	<b>\$1,341,250</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C17C100**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	55.1	54.8	159.8	219.1	217.1	706.0
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	55.1	54.8	159.8	219.1	217.1	706.0

**Cost estimate Available** Yes

Engineering estimate for various Projects. Multiple projects completed at different sites per year	
Cameras and fencing	\$35,000
Window replacement	\$60,000
Cathodic Protection	\$25,000
Replace windows and doors	\$20,000
Concrete Rehabilitation	\$5,000
Heater	\$3,000
Hot Water unit	\$2,500
Replace eye wash	\$1,000
Company Time	\$5,000
Contingency	\$15,650
Overheads	\$21,910
<b>Total</b>	<b>\$194,060</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C16C500**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	0	-	54.7	109.6		164.2
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	0.0	54.7	109.6	0.0	164.2

**Cost estimate Available** Yes

Engineering estimate	
Design	\$25,000
Permits	\$2,000
Equipment	\$75,000
Installation	\$25,000
Company Time	\$3,000
Contingency	\$13,000
Overheads	\$19,500
<b>Total</b>	<b>\$162,500</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #** 200

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**2015**  
**Project ID: C16C510**

**Project Title:** Electrical Improvements SV

**Year Initiated:** 2016

**Year in-service:** 2016

**Major Milestones:** 2016 Evaluate and replace Transformer

2017 Replace electrical service as needed

2018 - Replace Panels

2018 Replace electrical service within well field

2019 - upgrade feeders

**UW Project Classification:** Water Treatment

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	55.1	104.1	103.3	103.5		366.1
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	55.1	104.1	103.3	103.5	0.0	366.1

**Cost estimate Available** Yes

Engineering estimate for various Projects. Multiple projects may be completed per year	
Electric panel	\$10,000
Electric meter	\$10,000
Replace underground electric	\$50,000
Replace electric within building	\$20,000
replcate electric panel	\$15,000
Company Time	\$5,000
Contingency	\$11,000
Overheads	\$15,400
<b>Total</b>	<b>\$136,400</b>

**Cost Estimate Sheet**

**Suez Water New York**  
Business Unit #

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**2015**  
**Project ID: C16C502**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2015	2016	2017	2018	Beyond	Total
<b>Expenditures</b>		55.1				55.1
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	55.1	0.0	0.0	0.0	55.1

**Cost estimate Available** Yes

Engineering estimate for Letchworth Gen	
Equipment	\$25,000
Installation	\$15,000
permits	\$2,000
Company Time	\$5,000
Overheads	\$7,050
<b>Total</b>	<b>\$54,050</b>



**Cost Estimate Sheet**

**2015**  
**Project ID: C16C503**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2015	2016	2017	2018	2019	Total
<b>Expenditures</b>		55.1	219.3			274.4
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	55.1	219.3	0.0	0.0	274.4

**Cost estimate Available** Yes

Engineering estimate for Letchworth Gen	
Design	\$15,000
Permits	\$5,000
Equipment	\$125,000
Installation	\$75,000
Inspection	\$15,000
Company Time	\$5,000
Overheads	\$36,000
<b>Total</b>	<b>\$276,000</b>

**Cost Estimate Sheet**

2015

Project ID: C16C504

**Suez Water New York**

Business Unit # 200

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Project Title: LDF Improvements

Year Initiated: 2016

Year in-service: 2016

Major Milestones: 2016 - 2016 projects in service

2017 - 2017 projects in service

2018 - 2018 projects in service

2019 - 2019 projects in service

2020 - 2020 projects in service

UW Project Classification: Water Treatment

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	98.0	99.1	109.3	164.3	162.9	633.7
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	98.0	99.1	109.3	164.3	162.9	633.7

- Tamper proof hinges to backwash tank hatch - \$0.5K
- Alarm/motion sensor - \$3.5K
- Door Alarm - \$3.5K
- Replace railing- \$20K
- - Cover Floc basins - \$350K
- Additional Storage for Caustic and Coagulant - \$56K
- Replace hydraulic flocculators with mechanical mixers - \$417K
- Replace sump pumps (2) - \$3K

A number of other projects were identified for further evaluation:

- Implement additional Lake Aeration stages (if needed)
- Install dedicated intake, currently split between river and plant
- Add third DAF train (increase flow and/or reliability)
- Replace CO2 piping

For 2016 we will look to do the following projects:

- Add additional DAF instruments - \$25K
- Replace DAF compressors - \$25K
- Install door alarms and motion sensors - \$7
- Repl the CO2 valve - \$20k

**Cost estimate Available** Yes

Engineering estimate for various Projects.	
Multiple projects completed per year.	
Additional projects added as needed	
Door Alarms and Motion Sensors	\$7,000
Repalce railing	\$20,000
Chemical storage	\$56,000
replace sump pumps	\$3,000
Concrete Rehabilitation	\$5,000
Replace CO2 Piping	\$150,000
DAF Instrumentation	\$25,000
Replace DAF Compressors	\$25,000
CO2 Valve	\$20,000
Company Time	\$30,000
Overheads	\$43,540
<b>Total</b>	<b>\$384,540</b>

**Cost Estimate Sheet**

**Suez Water New York**  
Business Unit #

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**2015**  
**Project ID: C16C505**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	27.6	49.6	48.9	49.8	54.3	230.1
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	27.6	49.6	48.9	49.8	54.3	230.1

**Cost Estimate Available:**

Repl Chem Instrumentation Engineering estimate per project per site. Multiple projects are completed each year. Costs vary by project	
Equipment	\$5,000
Electrical	\$1,000
Company time	\$500
Overheads	\$975
<b>Total</b>	<b>\$7,475</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16C510**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	27.6	49.6	49.7	49.8		176.7
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	27.6	49.6	49.7	49.8	0.0	176.7

**Cost Estimate Available:**

Install kW meters Engineering estimate per project per site. Multiple projects are completed each year. Costs vary by project	
Equipment	\$2,000
Electrical	\$1,000
SCADA	\$1,500
Company time	\$500
Overheads	\$750
<b>Total</b>	<b>\$5,750</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C16C506**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	33.1	76.8	109.3	109.6		328.7
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	33.1	76.8	109.3	109.6	0.0	328.7

**Cost Estimate Available:**

Well Instrumentation - Low CI Engineering estimate per project per site. Multiple projects are completed each year. Costs vary by project	
Equipment	\$5,000
Electrical	\$1,500
SCADA	\$1,500
Company time	\$1,000
Overheads	\$1,350
<b>Total</b>	<b>\$10,350</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16C507**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	275.7	383.8	327.9	383.5	380.0	1,750.8
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	275.7	383.8	327.9	383.5	380.0	1,750.8

**Cost Estimate Available:**

Well Pumps & Motors Engineering estimate per project per site. Multiple projects are completed each year. Costs vary by project	
Equipment	\$20,000
Electrical	\$3,500
SCADA	\$2,000
Company time	\$4,000
Overheads	\$4,425
<b>Total</b>	<b>\$33,925</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C16C508**

**Suez Water New York**  
**Business Unit # 200**

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**Project Title:** Replace Booster Pumps

**Year Initiated:** 2016

**Year in-service:** 2016

**Major Milestones:** 2016 - 2016 projects in service

2017 - 2017 projects in service

2018 - 2018 projects in service

2019 - 2019 projects in service

2020 - 2020 projects in service

**UW Project Classification:** Pumping

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	64.0	73.1	86.1	86.3	85.5	395.0
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	64.0	73.1	86.1	86.3	85.5	395.0

**Cost Estimate Available:** Yes

Repl Booster pumps Engineering estimate per project per site. Multiple projects are completed each year. Costs vary by project	
Equipment	\$20,000
Electrical	\$3,500
SCADA	\$2,000
Company time	\$4,000
Overheads	\$4,425
<b>Total</b>	<b>\$33,925</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C16C509**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	165.4	548.3	546.6	547.8	542.9	2,350.9
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	165.4	548.3	546.6	547.8	542.9	2,350.9

**Cost estimate Available**



**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #** 200

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**2015**  
**Project ID: C16C511**

**Project Title:** Blaisdale

**Year Initiated:** 2016

**Year in-service:** 2016

**Major Milestones:** Q2 2016 Design and evaluation Blaisdale improvements

Q3 Permit

Q4 2016 Construction

2017 - Permit for normal supply from NJ

**UW Project Classification:** Water Treatment

**Priority/Category:** Infrastructure Replacement

	2015	2016	2017	2018	Beyond	Total
<b>Expenditures</b>		110.3	164.5			274.7
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	110.3	164.5	0.0	0.0	274.7

**Cost estimate Available** Yes

Engineering estimate for Blaisdale 2016	
Design	\$15,000
Permits	\$5,000
Equipment	\$25,000
Installation	\$35,000
Inspection	\$10,000
Company Time	\$5,000
Overheads	\$14,250
<b>Total</b>	<b>\$109,250</b>

Engineering estimate for Blaisdale 2017	
Interstate Water transfer permitting	\$75,000
Modeling	\$5,000
Equipment upgrades	\$25,000
Company Time	\$40,000
Overheads	\$21,750
<b>Total</b>	<b>\$166,750</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C18C500**

**Suez Water New York**  
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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2017	2018	2019	2020	Beyond	Total
<b>Expenditures</b>		218.6	219.1	325.7	100.0	863.5
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	218.6	219.1	325.7	100.0	863.5

**Cost estimate Available** Yes

Engineering estimate for various Projects. Multiple projects completed at different sites per year	
Replace Driveway	\$20,000
Electrical Improvements	\$9,000
Safety Improvements	\$85,000
Replace chemical feed lines and tank	\$100,000
Replace Electrical metering	\$15,000
Air Stripper modifications	\$22,000
Replace VFD	\$25,000
Vault Improvements	\$15,000
Roof Replacement	\$15,000
Contingency	\$30,600
Overheads	\$42,840
<b>Total</b>	<b>\$379,440</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C18C501**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2017	2018	2019	2020	Beyond	Total
<b>Expenditures</b>	0	53.6	54.8	54.3	54.3	216.9
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	53.6	54.8	54.3	54.3	216.9

**Cost Estimate Available:**

Repl PRVs Engineering estimate per project per site. Multiple projects are completed each year. Costs vary by project	
Equipment	\$10,000
Installation	\$10,000
Company time	\$4,000
Overheads	\$3,600
<b>Total</b>	<b>\$27,600</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C19C500**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2017	2018	2019	2020	Beyond	Total
<b>Expenditures</b>	0		328.7	217.1		545.8
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	0.0	328.7	217.1	0.0	545.8

**Cost estimate Available**

Cost Estimate Sheet

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**

**Business Unit #**

**Project ID: C16D001**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

**Cost Estimate Available:**

New Hydrant Engineering estimate per job per site. Multiple jobs are completed each year. Costs vary significantly by job	
Material	\$2,000
Installation	\$10,000
Paving	\$2,000
Company time	\$1,000
Overheads	\$2,250
<b>Total</b>	<b>\$17,250</b>

**Cost Estimate Sheet**

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**2015**  
**Project ID: C16D002**

**Business Unit # 200**

**Project Title:** New Short Mains

**Year Initiated:** 2016

**Year in-service:** 2016

**Major Milestones:** 2016 - 2016 projects in service

2017 - 2017 projects in service

2018 - 2018 projects in service

2019 - 2019 projects in service

**UW Project Classification:** Distribution

**Priority/Category:** Infrastructure Replacement

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	3,087.4	3,378.4	3,388.7	3,396.3	3,707.7	16,958.6
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	3,087.4	3,378.4	3,388.7	3,396.3	3,707.7	16,958.6

**Cost Estimate Available:** Yes

New short main Engineering estimate per job per site. Multiple jobs are completed each year. Costs vary significantly by job	
Material	\$500
Installation	\$10,000
Paving	\$1,500
Overheads	\$1,800
<b>Total</b>	<b>\$13,800</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #** 200

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**2015**  
**Project ID: C16D501**

**Project Title:** Replace Hydrants

**Year Initiated:** 2016

**Year in-service:** 2016

**Major Milestones:** 2016 - 2016 projects in service

2017 - 2017 projects in service

2018 - 2018 projects in service

2019 - 2019 projects in service

**UW Project Classification:** Distribution

**Priority/Category:** Infrastructure Replacement

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	310.3	328.1	327.9	328.7	359.1	1,654.1
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	310.3	328.1	327.9	328.7	359.1	1,654.1

**Cost Estimate Available:** Yes

Replace Hydrant Engineering estimate per job	
Material	\$500
Installation	\$10,000
Overheads	\$1,575
<b>Total</b>	<b>\$12,075</b>



**Cost Estimate Sheet**

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**2015**

**Business Unit #**

**Project ID: C16D502**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	992.4	1,263.1	1,282.1	1,306.8	1,272.2	6,116.6
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	992.4	1,263.1	1,282.1	1,306.8	1,272.2	6,116.6

**Cost Estimate Available:**

Repl short main Engineering estimate per job per	
Material	\$500
Installation	\$7,500
Paving	\$1,500
Overheads	\$1,425
<b>Total</b>	<b>\$10,925</b>

**Cost Estimate Sheet**

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**2015**

**Business Unit #**

**Project ID: C16D100**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**SW Project Classification:**

**Priority/Category:**

**Cost Estimate Available:**   
Normal installations are \$225-\$275/foot

**Cost Estimate Sheet**

2016

**Project ID: C16D300**

**Suez Water New York**

**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

**Cost Estimate Available:**

**Cost Estimate Sheet**

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**2015**  
**Project ID: C16D300**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

**Cost Estimate Available:**

**Cost Estimate Sheet**

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**2016**

**Business Unit #**

200

**Project ID: C16D600**

**Project Title:** Main Replacements

**Year Initiated:** 2016

**Year in-service:** 2016

**Major Milestones:** 2016 - 2016 projects in service

2017 - 2017 projects in service

2018 - 2018 projects in service

2019 - 2019 projects in service

**UW Project Classification:** Transmission & Distribution

**Priority/Category:** Infrastructure Improvements

**Cost Estimate Available:** Cost estimates done on a per job basis

Normal installations are \$225-\$275/foot

**Cost Estimate Sheet**

2016

**Project ID: C16D700**

**Suez Water New York**

**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

**Cost Estimate Available:**

Installation costs vary by job (realigning main under drainage pipe or full replacement)

**Cost Estimate Sheet**

**2016**

**Project ID: C16D503**

**Suez Water New York**

**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2015	2016	2017	2018	2019	Total
<b>Expenditures</b>	100.0	3,307.9	3,289.6	3,279.4	2,191.2	12,168.1
<b>Advances/CIAC</b>						0.0
<b>Net</b>		3,307.9	3,289.6	3,279.4	2,191.2	12,168.1

**Cost Estimate Available:**

Install DMA Engineering estimate per project per meter site. Multiple meter sites are completed each year. Costs vary significantly by project due to size of mains and complexity of installation	
Design	\$15,000
Permits	\$5,000
Equipment	\$45,000
Installation	\$75,000
Company time	\$10,000
Inspection	\$15,000
Contingency	\$24,750
Overheads	\$19,500
<b>Total</b>	<b>\$209,250</b>

**Cost Estimate Sheet**

**2016**

**Project ID: C16D504**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

**Cost Estimate Available:**

Installation costs vary by job (installing pressure reducing valve vaults vs VFDs onn wells)



**Cost Estimate Sheet**  
2013  
Project ID: C16E502

**Suez Water New York**  
Business Unit # 200

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Project Title: Tank Safety Improvements

Year Initiated: 2016

Year in-service: 2016

Major Milestones: 2016 - 2016 projects in service

2017 - 2017 projects in service

2018 - 2018 projects in service

2019 - 2019 projects in service

UW Project Classification: Distribution Storage

Priority/Category: Safety Compliance

	2016	2017	2018	2019	2020	Total
Expenditures	\$51.3	329.0	191.3	520.4	190.0	486.3
(Advances/CIAC)						0.0
Net	\$51.3	329.0	191.3	520.4	190.0	486.3

Cost estimate Available Yes

Engineering estimate for various tank safety improvements. Multiple projects completed at each tank and multiple tanks can be painted per year

Safety improvements	\$20,000
Additional Manways	\$15,000
Structural improvements	\$50,000
Contingency	\$8,500
Overheads	\$11,900
<b>Total</b>	<b>\$105,400</b>

**Tank Safety Improvements** This is to perform structural and safety upgrades after tank inspections have been completed to improve our tank safety and reliability.

UWNY has 16 tanks in the system. Either after inspection or prior to painting, various safety upgrades are generally performed (e.g., replace ladder components, add safety/security features to ladders, alternate access hatch, replace venting screens, etc...). Since 9/11/01, it is apparent that many of SWNY's tanks need security upgrades to protect the system. SWNY will identify about 2 tanks per year to provide these upgrades. Individual CEAs will be prepared and submitted for approval prior to each purchase and replacement

**2016 Tank Painting and Safety Improvements:**  
In 2016 the Rosman Road Tank in Thells, the LDF backwash tank and Clausland are scheduled for painting and safety improvements.

**2017 Tank Painting and Safety Improvements:**  
In 2017 the Post Road tank is scheduled for painting and safety improvements.

**2018 Tank Painting and Safety Improvements:**  
In 2018 the Valley Cottage Elevated tank is scheduled for painting and safety improvements

**2019 Tank Painting and Safety Improvements**  
In 2019 the Indian Kill tank is scheduled for painting and safety improvements.

**2020 Tank Painting and Safety Improvements**  
In 2020 the Spring Valley Standpipe is scheduled for painting and safety improvements.

**Cost Estimate Sheet**

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**2015**  
**Project ID: C16E505**

**Business Unit #**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	33.0						33.0
<b>(Advances/CIAC)</b>							0.0
<b>Net</b>	33.0	0.0	0.0	0.0	0.0	0.0	33.0

**Cost Estimate Available:**

IK Valve Vault Engineering Estimate	
Material	\$5,000
Installation	\$22,000
Company time	\$1,500
Overheads	\$4,275
<b>Total</b>	<b>\$32,775</b>

**Cost Estimate Sheet**

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**2015**

**Business Unit #**

**Project ID: C16E503**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	110.3	548.3	710.5		0.0		1,369.1
<b>(Advances/CIAC)</b>							0.0
<b>Net</b>	110.3	548.3	710.5	0.0	0.0	0.0	1,369.1

**Cost Estimate Available:**

Engineering estimate for Sterling Tank	
Design	\$85,000
Permits	\$15,000
Survey	\$5,000
Material	\$450,000
Installation	\$600,000
Inspection	\$50,000
Company Time	\$5,000
Overheads	\$181,500
<b>Total</b>	<b>\$1,391,500</b>

**Cost Estimate Sheet**

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**2015**  
**Project ID: C16E500**

**Business Unit #**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	110.3	109.7	2,424.9	1,623.2	0.0		4,268.0
<b>(Advances/CIAC)</b>							0.0
<b>Net</b>	110.3	109.7	2,424.9	1,623.2	0.0	0.0	4,268.0

**Cost Estimate Available:**

Engineering estimate for 3 MG Haverstraw	
Design	\$200,000
Permits	\$15,000
Survey	\$5,000
Material	\$900,000
Installation	\$2,500,000
Inspection	\$75,000
Company Time	\$15,000
Overheads	\$556,500
<b>Total</b>	<b>\$4,266,500</b>

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**  
**Project ID: C16E500**

**Business Unit #**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	220.5	219.3	218.6	38.6	2,232.0		2,929.0
<b>(Advances/CIAC)</b>							0.0
<b>Net</b>	220.5	219.3	218.6	38.6	2,232.0	0.0	2,929.0

**Cost Estimate Available:**

Engineering estimate for 3 MG Haverstraw	
Design	\$100,000
Permits	\$15,000
Survey	\$5,000
Material	\$600,000
Installation	\$1,750,000
Inspection	\$60,000
Company Time	\$15,000
Overheads	\$381,750
<b>Total</b>	<b>\$2,926,750</b>

**Cost Estimate Sheet**

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**2015**  
**Project ID: C20E501**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2017	2018	2019	2020	Beyond	Total
<b>Expenditures</b>	0			108.6	108.6	217.1
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	0.0	0.0	108.6	108.6	217.1

**Cost Estimate Available:**

Remote Valve Engineering estimate	
Equipment	\$25,000
Installation	\$35,000
Inspection	\$7,500
Electrical	\$5,000
SCADA	\$7,500
Company time	\$4,000
Contingency	\$8,400
Overheads	\$12,600
<b>Total</b>	<b>\$105,000</b>

Cost Estimate Sheet

**Cost Estimate Sheet**

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**2015**

**Business Unit #**

**Project ID: C16F001**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	477.4	614.1	642.8	676.5	704.0	3,114.8
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	477.4	614.1	642.8	676.5	704.0	3,114.8

**Cost Estimate Available:**

New domestic service Engineering estimate per job per site. Multiple jobs are completed each year. Costs vary significantly by job	
Material	\$500
Installation	\$5,500
Paving	\$750
Overheads	\$1,013
<b>Total</b>	<b>\$7,763</b>



**Cost Estimate Sheet**

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**2015**

**Business Unit #**

**Project ID: C16F003**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	462.4	482.8	505.5	531.9	553.4	2,536.0
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	462.4	482.8	505.5	531.9	553.4	2,536.0

**Cost Estimate Available:**

New fire service Engineering estimate per job per site. Multiple jobs are completed each year. Costs vary significantly by job	
Material	\$2,000
Installation	\$6,500
Paving	\$750
Overheads	\$1,388
<b>Total</b>	<b>\$10,638</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16F501**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	1,323.2	1,381.6	1,442.9	1,424.3	1,520.0	7,092.0
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	1,323.2	1,381.6	1,442.9	1,424.3	1,520.0	7,092.0

**Cost Estimate Available:**

Rerp service Engineering estimate per job per site. Multiple jobs are completed each year. Costs vary significantly by job	
Material	\$1,000
Installation	\$7,500
Paving	\$750
Overheads	\$1,388
<b>Total</b>	<b>\$10,638</b>

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**

**Business Unit #**

**Project ID: C16G001**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

**Cost Estimate Available:**

Please refer to IR-75

**New Customer Meters** - This is to purchase and install approximately 660 new customer meters in 2016.

This project would provide approximately 660 new meters for the anticipated new customer connections next year. SWNY allows lock-wing meter setups where multiple meters can be installed off a single service line.

Based on cost history, each new meter installation would cost about \$130 including materials and labor charges. There have been several large developments on line in recent years and this trend is expected to continue for the next few years.

**Cost Estimate Sheet**

**Suez Water New York**  
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**2015**  
**Project ID: C16G002**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

**Cost Estimate Available:**

Please refer to IR-75

**Cost Estimate Sheet**

**2015**  
**Project ID: C16G501**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

**Cost Estimate Available:**

Please refer to IR-75

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**

**Business Unit #**

**Project ID: C16G502**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

**Cost Estimate Available:**

Please refer to IR-75

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16G503**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

	2015	2016	2017	2018	2019	Total
<b>Expenditures</b>	275.7	274.1	273.3			823.1
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	275.7	274.1	273.3	0.0	0.0	823.1

**Cost Estimate Available:**

Fixed meter system Engineering estimate per job per site. Multiple jobs are completed each year.	
Material	\$45,000
Installation	\$30,000
Company time	\$5,000
Overheads	\$12,000
<b>Total</b>	<b>\$92,000</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16G504**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	55.1	82.2	82.0	82.2	108.6	410.1
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	55.1	82.2	82.0	82.2	108.6	410.1

**Cost Estimate Available:**

Fixed meter system Engineering estimate per job per site. Multiple jobs are completed each year.	
Material	\$8,000
Installation	\$12,000
Company time	\$2,000
Overheads	\$3,300
<b>Total</b>	<b>\$25,300</b>



**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16J101**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	25.6	26.4	56.2	17.3	17.1	142.6
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	25.6	26.4	56.2	17.3	17.1	142.6

**Cost Estimate Available:**

Water level monitoring Engineering estimate per job per site. Multiple jobs are completed each year.	
Material	\$2,500
Installation	\$5,000
Company time	\$1,000
Overheads	\$1,275
<b>Total</b>	<b>\$9,775</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16J100**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	21.6	22.0	21.9	21.9	27.1	114.6
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	21.6	22.0	21.9	21.9	27.1	114.6

**Cost Estimate Available:**

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16J100**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	-	-	101.7	104.1		205.7

**Cost Estimate Available:**

SCADA Interconnection Engineering estimate per job per site. Multiple jobs are completed each year.	
Material	\$15,000
Electrical	\$10,000
SCADA Instrumentation	\$10,000
Construction	\$45,000
Paving	\$5,000
Company time	\$3,000
Overheads	\$13,200
<b>Total</b>	<b>\$101,200</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16J102**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2015	2016	2017	2018	2019	Total
<b>Expenditures</b>			109.7			109.7
<b>(Advances/CIAC)</b>						0.0

**Cost Estimate Available:**

Blue Lake SCADA Engineering estimate per job	
Material	\$15,000
Electrical	\$10,000
SCADA Instrumentation	\$10,000
Construction	\$45,000
Paving	\$5,000
Company time	\$3,000
Overheads	\$13,200
<b>Total</b>	<b>\$101,200</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16J103**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2015	2016	2017	2018	2019	Total
<b>Expenditures</b>				164.0		164.0
<b>(Advances/CIAC)</b>						0.0

**Cost Estimate Available:**

Maplebrook SCADA Engineering estimate per job per site. Multiple jobs are completed each year.	
Material	\$20,000
Electrical	\$25,000
SCADA Instrumentation	\$15,000
Construction	\$65,000
Paving	\$10,000
Company time	\$5,000
Overheads	\$21,000
<b>Total</b>	<b>\$161,000</b>

**Cost Estimate Sheet**

**Suez Water New York**  
Business Unit #

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2015  
Project ID: C17J101

Project Title:

Year Initiated:

Year in-service:

Major Milestones:

UW Project Classification:

Priority/Category:

	2015	2016	2017	2018	2019	Total
Expenditures			30.0			30.0
(Advances/CIAC)						0.0

Cost Estimate Available:

Engineering estimate	
Equipment	\$25,000
Company time	\$1,000
Overheads	\$3,900
<b>Total</b>	<b>\$29,900</b>

**Cost Estimate Sheet**

2015

**Project ID: 18J500 router**

**Suez Water New York**

**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2015	2016	2017	2018	2019	Total
<b>Expenditures</b>				16.4		16.4
<b>(Advances/CIAC)</b>						0.0

**Cost Estimate Available:**

Engineering estimate	
Equipment	\$13,800
Company time	\$500
Overheads	\$2,145
<b>Total</b>	<b>\$16,445</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C16J501**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	12.1	13.2	14.2	15.3	16.3	71.1
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	12.1	13.2	14.2	15.3	16.3	71.1

**Cost Estimate Available:**

Engineering estimate	
Equipment	\$11,000
Overheads	\$1,650
<b>Total</b>	<b>\$12,650</b>



**Cost Estimate Sheet**

**Suez Water New York**

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**2015**  
**Project ID: C18J101**

**Business Unit # 200**

**Project Title:** Hydraulic Modeling update

**Year Initiated:** 2018

**Year in-service:**

**Major Milestones:** 2018 - Update hydraulic model

**UW Project Classification:** IT

**Priority/Category:** Infrastructure

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>			150.0			150.0
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	0.0	150.0	0.0	0.0	150.0

**Cost Estimate Available:** Yes

Engineering estimate	
Consulting	\$115,000
Company time	\$15,000
Overheads	\$19,500
<b>Total</b>	<b>\$149,500</b>

Cost Estimate Sheet

**Cost Estimate Sheet**

**Suez Water New York**  
Business Unit #

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2015  
Project ID: **C16K100**

Project Title:

Year Initiated:

Year in-service:

Major Milestones:

UW Project Classification:

Priority/Category:

	2016	2017	2018	2019	2020	Total
Expenditures		-	62.3	-	73.8	136.1
(Advances/CIAC)						0.0
Net	0.0	0.0	62.3	0.0	73.8	136.1

Cost Estimate Available:

Engineering estimate	
Equipment	\$54,000
Overheads	\$8,100
<b>Total</b>	<b>\$62,100</b>

Leak Detection - Purchase leak detection equipment

This projects is to purchase acoustic leak monitoring / leak locating equipment to assist our distribution staff in locating system leaks on mains, valves, hydrants and services. Such leak locating efforts will ultimately help to drive both non-revenue producing and unaccounted for water levels downward.

We will purchase two sets of acoustical monitoring equipment every other year, or as the budget allows. This equipment will allow UWNY to drive and listen to long lengths of pipe (1-2 miles).

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**

**Business Unit #**

**Project ID: C16K101**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	27.6	27.4	27.3	27.4	27.1	136.8
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	27.6	27.4	27.3	27.4	27.1	136.8

**Cost Estimate Available:**

ArcFlash Engineering estimate per job per site. Multiple jobs are completed each year.	
Material	\$10,000
Electrical	\$12,000
Company time	\$1,500
Overheads	\$3,525
<b>Total</b>	<b>\$27,025</b>

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**

**Business Unit #**

**Project ID: C16K102**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	48.7	50.1	48.6	82.2	81.4	311.1
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	48.7	50.1	48.6	82.2	81.4	311.1

**Cost Estimate Available:**

Safety Engineering estimate per job per site. Multiple jobs are completed each year.	
Fencing	\$15,000
Cameras	\$5,000
Access locks	\$3,500
Lighting	\$5,000
Replace doors	\$2,000
replace windows	\$2,000
Company time	\$5,000
Overheads	\$4,875
<b>Total</b>	<b>\$42,375</b>

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**  
**Project ID: C16K103**

**Business Unit #**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	55.1	54.8	54.7	54.8	54.3	273.7
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	55.1	54.8	54.7	54.8	54.3	273.7

**Cost Estimate Available:**

Engineering estimate	
Fence	\$48,000
Overheads	\$7,200
<b>Total</b>	<b>\$55,200</b>

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**  
**Project ID: C16K104**

**Business Unit #**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Beyond	Total
<b>Expenditures</b>	14.6	20.1	21.9	21.9	21.7	20.0	120.1
<b>(Advances/CIAC)</b>							0.0
<b>Net</b>	14.6	20.1	21.9	21.9	21.7	20.0	120.1

**Cost Estimate Available:**

Engineering estimate	
Equipment	\$18,000
Overheads	\$2,700
<b>Total</b>	<b>\$20,700</b>

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**  
**Project ID: C16K500**

**Business Unit #**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	48.6	75.2	74.3	76.7	108.6	383.4
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	48.6	75.2	74.3	76.7	108.6	383.4

**Cost Estimate Available:**

Building Improvement Engineering estimate per job per site. Multiple jobs are completed each year.	
doors	\$2,000
railing	\$10,000
paving	\$15,000
fencing	\$15,000
Company time	\$5,000
Overheads	\$7,050
<b>Total</b>	<b>\$54,050</b>



**Cost Estimate Sheet**

**Suez Water New York**

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**2015**  
**Project ID: C16K502**

**Business Unit #**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	29.8	36.2	39.4	40.5	41.3	187.1
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	29.8	36.2	39.4	40.5	41.3	187.1

**Cost Estimate Available:**

Engineering estimate	
Equipment	\$30,000
Overheads	\$4,500
<b>Total</b>	<b>\$34,500</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C17K101**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2015	2016	2017	2018	2019	Total
<b>Expenditures</b>				25.1		25.1
<b>(Advances/CIAC)</b>						0.0

**Cost Estimate Available:**

Meter building Engineering estimate	
Permitting	\$2,000
Survey	\$1,500
material	\$8,000
Install	\$10,000
Company time	\$1,000
Overheads	\$3,375
<b>Total</b>	<b>\$25,875</b>

**Cost Estimate Sheet**

**Suez Water New York**  
**Business Unit #**

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**2015**  
**Project ID: C18K500**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	54.8	218.6	328.7	108.6		710.7
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	54.8	218.6	328.7	108.6	0.0	710.7

**Cost Estimate Available:**

Building Improvement Engineering estimate per job per site.	
Design	\$20,000
Permitting	\$5,000
Survey	\$3,500
Construction/clearing	\$155,000
Paving	\$45,000
Company time	\$10,000
Overheads	\$35,775
<b>Total</b>	<b>\$274,275</b>

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**  
**Project ID: C19k500**

**Business Unit #**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2017	2018	2019	2020	Beyond	Total
<b>Expenditures</b>	0	53.6	54.8	54.3		162.6
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	53.6	54.8	54.3	0.0	162.6

**Cost Estimate Available:**

Underground Engineering estimate per job per site.	
Ladder up	\$3,500
Structural Improvement	\$10,000
Ventalation	\$10,000
Hoist	\$20,000
hatch	\$5,000
Company time	\$5,000
Overheads	\$8,025
<b>Total</b>	<b>\$61,525</b>

**Cost Estimate Sheet**

**2015**  
**Project ID: C16M100**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>	97.4	100.2	107.1	109.6	108.6	522.8
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	97.4	100.2	107.1	109.6	108.6	522.8

**Cost Estimate Available:**

Engineering estimate	
Consulting	\$80,000
Company time	\$10,000
Overheads	\$13,500
<b>Total</b>	<b>\$103,500</b>

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**  
**Project ID: C16M101**

**Business Unit #**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>	330.8	548.3					879.1
<b>(Advances/CIAC)</b>							0.0
<b>Net</b>	330.8	548.3	0.0	0.0	0.0	0.0	879.1

**Cost estimate Available** See June 2015 Report on the Feasibility of Incremental Water Supply Projects and Conservation Opportunities in Rockland County, New York

**Cost Estimate Sheet**

**Suez Water New York**

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**2015**  
**Project ID: C16M101**

**Business Unit #**

**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	2021	Total
<b>Expenditures</b>			546.6	1,249.3	4,257.1	2,200.0	8,253.0
<b>(Advances/CIAC)</b>							0.0
<b>Net</b>	0.0	0.0	546.6	1,249.3	4,257.1	2,200.0	8,253.0

**Cost estimate Available** See June 2015 Report on the Feasibility of Incremental Water Supply Projects and Conservation Opportunities in Rockland County, New York

**Cost Estimate Sheet**

**2015**  
**Project ID: C17M100**

**Suez Water New York**  
**Business Unit #**

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**Project Title:**

**Year Initiated:**

**Year in-service:**

**Major Milestones:**

**UW Project Classification:**

**Priority/Category:**

	2016	2017	2018	2019	2020	Total
<b>Expenditures</b>			99.5			99.5
<b>(Advances/CIAC)</b>						0.0
<b>Net</b>	0.0	0.0	99.5	0.0	0.0	99.5

**Cost Estimate Available:**

Engineering estimate	
Consulting	\$76,500
Company time	\$10,000
Overheads	\$12,975
<b>Total</b>	<b>\$99,475</b>



EXHIBIT --- (DPD-3)  
RECOMMENDED CAPEX PLAN

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Haverstraw Tank	Construction	Distribution Storage	Prevention of service deficiencies	\$ 109,686	\$ 4,268,000	Yes	Not Available	Include	67
2 MG Haverstraw Tank (Monsesy)	Construction	Distribution Storage	Infrastructure Replacement	\$ 190,718	\$ 2,929,000	Yes	Not Available	Include	68
Remote Motorized Valves at Tanks	Various Projects	Water Storage	New Customer Connection	\$ 217,100	\$ 217,100	Yes	Not Available	Include	69
New Domestic Services	Various Projects	Distribution	New Customer Connection	\$ 534,152	\$ 3,114,800	Yes	Not Available	Include	71
New Fires Services	Various Projects	Distribution	Infrastructure Replacement	\$ 420,340	\$ 2,536,000	Yes	Not Available	Include	72
Replace Services	Various Projects	Distribution	New Customer Connection	\$ 1,201,160	\$ 7,092,000	Yes	Not Available	Include	73
New Meters	Various Projects	Customer Meters	New Customer Connection			Yes	Not Available	Include	74
New RFS	Various Projects	Customer Meters	New Customer Connection			Yes	Not Available	Include	75
Replace Meters	Various Projects	Customer Meters	Infrastructure Replacement			Yes	Not Available	Include	76
Replace Rf's	Various Projects	Customer Meters	Infrastructure Replacement			Yes	Not Available	Include	77
Fixed Meter System	Install Collectors - SWW and O&R assets	Customer Meters	???	\$ 237,300	\$ 823,100	Yes	Not Available	Include	78
Production Meters	Various Projects	Customer Meters	Infrastructure Replacement	\$ 72,300	\$ 410,100	Yes	Not Available	Include	79
Water Level Monitoring	Various Projects	Water Treatment	Infrastructure Replacement	\$ 22,575	\$ 142,600	Yes	Not Available	Include	80
GIS	Various Projects	IT	Infrastructure Replacement	\$ 22,000	\$ 114,600	Yes	Not Available	Include	81
SCADA Connections	Various Projects	IT	Infrastructure Replacement		\$ 205,700	Yes	Not Available	Include	82
Blue Lake SCADA	Construction	IT	Productivity Improvement	\$ 96,500	\$ 109,700	Yes	Not Available	Include	83
Maplebrook SCADA	Construction	IT	Productivity Improvement	\$ 26,100	\$ 30,000	Yes	Not Available	Include	84
IT Server	Equipment and Installation	IT	Productivity Improvement		\$ 16,400	Yes	Not Available	Include	85
Printers and Plotters	Equipment and Installation	IT	Productivity Improvement		\$ 71,100	Yes	Not Available	Include	86
Hydraulic Modeling Update	Equipment and Installation	IT	Productivity Improvement	\$ 11,550	\$ 150,000	Yes	Not Available	Include	87
Leak Detection Equipment	Update Hydraulic Model	IT	Productivity Improvement			Yes	Not Available	Include	88
ArFlash	Purchase Equipment	Tools	NRW Reduction	\$ 136,100	\$ 136,100	Yes	Not Available	Accelerate	90
Safety and Security	Various Projects	Equipment	Safety	\$ 23,875	\$ 136,800	Yes	Not Available	Include	91
Lake DeForest Reservoir Fencing	Various Projects	General Plant	Compliance	\$ 45,225	\$ 311,100	Yes	Not Available	Include	92
New Tools and Equipment	Various Projects	General Plant	Compliance	\$ 47,600	\$ 273,700	Yes	Not Available	Include	93
Building Improvements	Various Projects	Equipment	Tools and Equipment	\$ 17,400	\$ 120,200	Yes	Not Available	Include	94
Replace Tools and Equipment	Various Projects	Equipment	Compliance	\$ 68,150	\$ 383,400	Yes	Not Available	Include	95
Meter Shop Storage Shed	Purchase and Install	Equipment	Tools and Equipment	\$ 31,700	\$ 187,100	Yes	Not Available	Include	96
West Nyack Building Improvements	Construction	General Plant	Infrastructure	\$ 52,041	\$ 710,700	Yes	Not Available	Include	97
Underground Vault Improvements	Various Projects	General Plant	Compliance		\$ 25,100	Yes	Not Available	Include	98
UIRP and Water Supply Design	Various Projects	General Plant	Safety	\$ 86,700	\$ 162,600	Yes	Not Available	Include	99
Ramapo River Supply Optimization	Develop Ground and Surface Water Model	Preliminary Design	Various	\$ 548,300	\$ 879,100	Yes	Not Available	Include	100
System Surge Analysis	Develop Ground and Surface Water Model	Preliminary Design	Supply		\$ 823,000	Yes	Not Available	Include	101
	Analysis	Preliminary Design	Supply		\$ 99,500	Yes	Not Available	Include	102
			Infrastructure				Not Available	Include	103

\$ 19,136,033 \$ 117,663,738

Add some amount to increase main replacement to achieve 1% --TBD