

BEFORE THE
STATE OF NEW YORK
DEPARTMENT OF PUBLIC SERVICE

In the Matter of a

THREE-YEAR RATE PROPOSAL FOR ELECTRIC RATES AND CHARGES
SUBMITTED BY THE LONG ISLAND POWER AUTHORITY AND
SERVICE PROVIDER, PSEG LONG ISLAND LLC.

Matter Number 15-00262

June 2015

Prepared Exhibit of Staff Capital
Expenditures Panel

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Matter Number 15-00262

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Matter Number 15-00262

Relied Upon Responses to Information Requests

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PSEG Long Island
Case Name: PSEG LI - Rate Case 2015
Docket No(s): Matter No. 15-00262

Response to Discovery Request: DPS-PRELIMINARY-0048 SUPPLEMENTAL
Date of Response: 04/13/2015
Witness: CAPITAL BUDGETS

Question:

Provide actual and budgeted capital expenditure amounts for the last five historic years, in aggregate and by specific blanket grouping or project. Budgeted expenditure levels should be the levels approved by the company's Board of Trustees for each historic period.

Attachments Provided Herewith: 1

DPS-PRELIMINARY_0048 SUPPLEMENTAL_5-yearCapSpendingDetail.xlsx

Response:

Attached in "5-year Cap Spending Detail.xlsx" is the 2014 Capital Budget (Total Budget) and Actual (Total Spending) developed by PSEG LI and the 2010-2013 Capital Budget (Total Budget) and Actual (Total Spending) developed by National Grid. The Capital process for 2014, included some Information Technology transition projects that are recorded as regulatory assets on LIPA's general ledger; therefore, these costs may not match LIPA's capital budget. Below is a summary for each year from 2010 through 2014 for Total Budget and Total Spending.

Year	Total Budget	Total Spending
2010	\$215,184,500.46	\$216,400,413.44
2011	\$231,053,087.45	\$252,004,700.54
2012	\$258,053,395.16	\$266,684,430.58
2013	\$275,609,592.70	\$332,223,763.50
2014	\$389,341,949.43	\$357,209,897.38

PSEG Long Island
Case Name: PSEG LI - Rate Case 2015
Docket No(s): Matter No. 15-00262

Response to Discovery Request: DPS-CBP-0244
Date of Response: 03/11/2015
Witness: CAPITAL BUDGETS

Question:

For the In-Flights, New Regulatory, New Load Growth, New Reliability, New Other and N-1-1 projects shown in Exhibit (CBP-2), for each project:

- a. Provide the cost estimate grade (Order of magnitude, conceptual, etc.).
- b. Provide the in-service date.
- c. Provide the percentage completed as of December 31, 2014.
- d. Identify whether the project was initiated by PSEG-LI or was initiated prior to the OSA.
- e. Provide the estimate grade at the time PSEG-LI assumed responsibility for the project's completion, where applicable.

Attachments Provided Herewith: 1

DPS-CBP_0244_Exhibit - DPS_CPB-2_IR_244_r4.pdf

Response:

a: Projects included in the budget were done prior to implementation of PSEG LI's estimating process. The estimates are at a conceptual level.

b: See attached file - column b

c: See attached file - column c

d: See attached file - column d

Note that in many cases these projects were identified as future potential needs. As such, conceptual work and looking for sites to construct facilities were started, e.g., Nassau Hub, Kings Highway, Riverhead to Eastport. No detailed cost estimates were prepared.

e: Prior to PSEG LI becoming the service provider for LIPA, there were essentially two estimate grades: there were detailed estimates for near term projects, e.g., next year, and then conceptual estimates for the balance of projects.

UPDATED EXHIBIT CPB-244 3/6/2015

BLANKETS/SPECIFICS	2016 Proposed Budget	2017 Proposed Budget	2018 Proposed Budget	B- In Service Date	C-% Complete as of 12/31/14	D- Project Initiated Start – Pre or Post PSEG LI
In Flight -Load Growth						
Ruland-Plainview-New Trans Circuit	\$3,100,000	\$13,800,000		2017	0	Pre
Kings Hwy - New Sub (3-33MVA Banks)	\$9,800,000	\$12,200,000		2017	0	Pre
Cedarhurst-Upgrade Substation from 3 33kv, 69-13kv Bank	\$4,000,000			2016	0	Pre
Levittown-Plainedge Reconductor 69-571	\$1,600,000			2016	0	Pre
Malverne - Replace existing banks & switchgear w/ 2-69/13kv 33MVA banks & 2 1/2 swgr lineups	\$6,400,000	\$8,000,000		2017	0	Pre
Berry St Substation (formally North Lindenhurst) - New Sub 2 - 33 MVA Banks)	\$10,100,000	\$8,000,000		2017	0	Pre
In-Flight Load Growth Subtotal	\$35,000,000	\$42,000,000	\$0			
In Flight - Reliability						
Shelter Island - New Distrib. Subst	\$25,400,000			2016-2017	0	Pre
Rockaway Beach - Replace 4kv Banks & Swgr 1&2	\$3,600,000			2016	0	Pre
Barrett - Replace 1/2 switchgear a/w Bank 7 and 1/2 switchgear a/w Bank 8 & Bank 11	\$1,500,000			2016	0	Pre
Arverne - Replace 33kv Switchgear, control wiring and control panels	\$3,000,000			2016	0	Pre
In-Flight Reliability Subtotal	\$33,500,000	\$0	\$0			
New Regulatory						
LIRR Colonial Rd Bridge	\$600,000			2016	0	Post
LIRR Hicksville North Track (relocate 69kV)	\$630,000			2016	0	Post
New Regulatory Subtotal	\$1,230,000	\$0	\$0			
New - Load Growth						
Conversion & Reinforcement (C&R) & New Exits individually valued at greater than \$1 million	\$10,800,000	\$14,440,000	\$16,600,000	Each Year	NA	NA
Barrett 4th Bank & feeders for Bay Park Sewage Plant	\$4,000,000	\$9,800,000		2017	0	Post
Bayport - New feeder (Serota)	\$2,150,000	\$2,159,000		2017	0	Pre: Conceptual Only
Old Bethpage New Substation & Land Purchase (RXR)	\$300,000	\$2,400,000	\$13,800,000	2018	0	Pre: Siting
New South Rd Substation Expansion **			\$1,000,000	2019	0	Conceptual

** In Service date after 2018

UPDATED EXHIBIT CPB-244 3/6/2015

BLANKETS/SPECIFICS	2016 Proposed Budget	2017 Proposed Budget	2018 Proposed Budget	B- In Service Date	C-% Complete as of 12/31/14	D- Project Initiated Start – Pre or Post PSEG LI
Orchard Sub - Add Bank	\$7,400,000			2016	25	Pre
Flowerfield Sub, C&R, Exit	\$3,800,000	\$8,680,000		2017	0	Post
Middle Island - New Sub Land Purchase in 2015	\$6,000,000	\$21,000,000		2017	0	Pre: Siting
Syosset Add 33MVA Bank	\$4,400,000			2016	0	Pre
Greenfield - Land Purchase & Replace existing 33- 4kv Banks with 69-13 kv Banks & UG Transmission	\$1,800,000	\$26,100,000	\$26,100,000	2018	0	Pre: Siting
Hempstead - Convert Sub from 23kV to 69kV	\$10,100,000	\$19,800,000		2017	0	Post
Riverhead - Eastport 69-951 Reconductor	\$13,488,000			2016	0	Pre
New Cassel New Sub **	\$3,200,000	\$1,900,000	\$1,900,000	2019	0	Pre: Siting
Massapequa - New Sub **	\$500,000	\$200,000	\$8,000,000	2019	0	Pre: Siting
Mitchell Gardens new exit feeder	\$3,640,800			2016	0	Post
Doctor's Path Riverhead - New Sub **		\$300,000	\$7,000,000	2020	0	Pre: Siting
Roslyn - Add 33 MVA Bank **		\$200,000	\$2,000,000	2019	0	Pre: Siting
Yaphank - Add 33 MVA bank **			\$500,000	2019	0	Pre: Conceptual
Port Jeff - Stony Brook Reconductor **			\$1,000,000	2019	0	Pre
Elwood - Pulaski Reconductor **		\$300,000	\$10,000,000	2018	0	Pre
Nassau Hub - New Sub **		\$500,000	\$25,000,000	2018	0	Pre: Conceptual
Amagansett Replace Existing Banks with 2 14MVA 23/33 13 kV Banks		\$1,920,000	\$7,680,000	2018	0	Post
New Load Growth Subtotal	\$71,578,800	\$109,699,000	\$120,580,000			
New Reliability						
Long Beach - Replace first and second 1/2 switchgears & control cables	\$6,700,000			2016	0	Pre
Woodmere Replace Control cables				2016	0	Pre

** In Service date after 2018

UPDATED EXHIBIT CPB-244 3/6/2015

BLANKETS/SPECIFICS	2016 Proposed Budget	2017 Proposed Budget	2018 Proposed Budget	B- In Service Date	C-% Complete as of 12/31/14	D- Project Initiated Start – Pre or Post PSEG LI
Far Rockaway - Replace 33kV Switchgear, Control Wiring and Control Panels	\$5,500,000			2016	0	Pre
Far Rockaway Replace 69kV inter- panel wiring & control cables		\$600,000		2017	0	Pre
Far Rockaway Replace Dist Swgr 2&11	\$5,700,000			2016	0	Pre
Navy Rd (Montauk) new 23-13kV Sub	\$6,701,000	\$10,643,000		2017	0	Pre: Conceptual
Valley Stream switchgear	\$50,000	\$2,000,000		2017	0	Post
MacArthur - Install 27 MVAR Cap Bank	\$1,200,000	\$1,000,000		2017	0	Pre
Nesconset Cap Bank Addition (Smithtown area)	\$5,400,000			2016	0	Post
Southampton - Cable Tapping	\$2,100,000			2016	0	Post
Captree-Robert Moses Trans. Cable Life Ext. circuit 23-738	\$2,400,000	\$3,000,000	\$7,500,000	2018	0	Post
Ocean Beach-Fire Island Pines Transmission Cable Life extension & N-1-1	\$12,200,000	\$12,200,000		2017	0	Post
Garden City Park 4kV Switchgear Replacement	\$3,000,000			2016	0	Post
Ocean Beach Fair Harbor & Robert Moses-Fair Harbor Life Ext. Cable 23-749 & 23-742	\$1,200,000	\$4,800,000		2017	0	Post
Bayport-Fire Island Pines and Other Circuits Splices Improvements	\$2,500,000			2016	0	Post
West Hempstead replace 69-13 kV 56 MVA bank with 69-13 kV 2-33 MVA banks 56 MVA Spare for the system.	\$4,200,000			2016	0	Pre
Fire Island -Brightwater-Captree Upgrade OH 23-747 Transmission Supply			\$5,500,000	2018	0	Post
Buell Replace 20MVA 69kV-23kV Bank 1 with a 28MVA bank	\$316,000	\$1,245,000		2017	0	Post
Stewart Manor Switchgear Replacement	\$51,500	\$2,068,755		2017	0	Post
EGC Switchgear Replacement		\$53,045	\$2,130,818	2018	0	Post
Elwood Install Double Bus Tie	\$1,800,000			2016	0	Post
Buell Replace 20MVA 69kV-23kV Bank 2 with a 28MVA bank		\$300,000	\$1,291,350	2018	0	Pre
Smithtown Install Single Bus Tie			\$600,000	2018	0	Post

** In Service date after 2018

UPDATED EXHIBIT CPB-244 3/6/2015

BLANKETS/SPECIFICS	2016 Proposed Budget	2017 Proposed Budget	2018 Proposed Budget	B- In Service Date	C-% Complete as of 12/31/14	D- Project Initiated Start – Pre or Post PSEG LI
New Reliability Subtotal	\$61,018,500	\$37,909,800	\$17,022,168			
New Other						
Sys Operations Control Room Modification/Upgrade	\$5,000,000	\$25,000,000	\$20,000,000	On Hold	0	
New Other Subtotal	\$5,000,000	\$25,000,000	\$20,000,000			
NEW GRAND TOTAL	\$138,827,300	\$172,608,800	\$157,602,168			
N-1-1 Projects						
Valley Stream - EGC New 138kV Cable **	\$1,000,000	\$3,400,000	\$19,065,000	2020	0	Pre: Conceptual
Syosset - Shore Rd New 138kV cable & PAR **	\$1,000,000	\$3,400,000	\$27,750,000	2020	0	Pre
N-1-1 Total	\$2,000,000	\$6,800,000	\$46,815,000			

** In Service date after 2018

PSEG Long Island
Case Name: PSEG LI - Rate Case 2015
Docket No(s): Matter No. 15-00262

Response to Discovery Request: DPS-CBP-0288
Date of Response: 03/23/2015
Witness: CAPITAL BUDGETS

Question:

Provide detailed information as to the incremental cost of installing an AMI meter as compared to a traditional non-AMI meter

- a. Provide a detailed description of all AMI and meter related IT - Customer Service Projects including but not limited to AMI Communication (transition to JMUX), Meter Inventory Management System, Replace MDSI and CARDS and MDTs for Field Meter Technicians (interface back to CAS and GFDM), AMI Customer Engagement Portal, Meter Platform Improvements (New generation of smart meters), Move from Itron MVRS to AMI, AMI Integration (Link to OMS) and Meter Data Collection and Analytics (Big Data).
- b. Provide a cost justification, calculation and breakdown with separate lines for A&G, and Pension/OPEBs for all projects referenced in question 3.
- c. Provide an analysis of the impact that the disallowance of AMI Policy Expansion and AMI Saturation Expansion projects would have on the Company's Capital Budget

Attachments Provided Herewith: 1
DPS-CBP_0288_CapEx Loadings.xlsx

Response:

- a. Below are the detailed descriptions of all meter related IT projects:
 - i. **AMI Communication (transition to JMUX) –**
The current AMI infrastructure uses cell data modems to backhaul meter data from the collectors to the AMI head end. This project is for materials and labor to connect those collectors located in proximity to substations with existing PSEG-LI JMUX fiber networks to the internal network and displaces the re-occurring monthly cell charges.
 - ii. **Meter Inventory Management System –**
The meter inventory management system replacement is a project that will begin in 2015 to replace an outdated un-supported legacy system used to track meter assets and their associated test results and service history. The budget for 2016 is to complete the testing and full deployment of the new system.

iii. *Replace MDSI and CARDS and MDTs for Field Meter Technicians (interface back to CAS and GFDM) –*

In 2014-2015, a new mobile workforce management system will be deployed to transition off the legacy National Grid application. The new system when deployed will greatly enhance the legacy process (which is barely a step beyond a manual process). The initial deployment is based on capabilities supported by the vendor's basic solution and constraints with the mainframe integrations and scheduled in service date. This project will allow for continuous improvement in the applications supporting work prioritization, route optimization, field data capture, and transition and enhancement main frame processes to mobile dispatch application.

iv. *AMI Customer Engagement Portal –*

The suite of applications currently in place in support of AMI features includes Energy Engage customer web portal which enables customers to view and download their interval usage data. Development needs to be completed to enable the data to be seen not only in the KWH as read by the meter but in calculated dollars which is more meaningful to many customers. Monthly consumption alerts and other data visualization enhancements are envisioned through this project.

v. *Meter Platform Improvements (New generation of smart meters) –*

Each new enhancement in AMI functionality requires development work across the multiple IT platforms. Once the development of a new meter program is completed, supporting enhancements need to be made in the suite of IT systems that support AMI. These include the Command Center AMI communications head end, the Energy Engage meter data management system, the meter inventory management system and the CAS billing system. Planned functional improvements include AMI for totalized metered account (both master and sub meter), inter-tie, Independent Power Producers and other complex metering sites. The plan also includes integration of meters from other manufacturers to ensure pricing competition and supplier diversity.

vi. *Upgrade Itron MVRS (Move from Itron MVRS to AMI) –*

The Itron MVRS software manages all of the manually read meter data. The software was last updated in 2014. Based on current AMI deployment plans, by 2017 there will still be on the order of one million meters manually read. It is anticipated a software upgrade will be required in 2017 to keep the system on a vendor supported version and remain current with functionality enhancements

vii. *AMI Integration (Link to OMS) –*

AMI meter communications has the ability to refine outage management and restoration confirmation. These capabilities are secondary to the pure metering and customer data benefits and to realize these benefits, AMI need to be deployed in relatively high densities. This project is to integrate AMI outage detection functionality directly with the OMS once other foundational benefits are realized and appropriate scale is achieved.

viii. Meter Data Collection and Analytics (Big Data) –

Meter data analytic software is needed to realize the full value of smart meter data and enhance the “meter to cash” functionality. Our AMI meters are currently capable of providing 15 minute time stamped real and reactive energy flows. In addition, the AMI meters provide distribution system monitoring in terms of voltage and current values. The meters can also monitor and report on service abnormalities. Meter data analytic software processes data into information that provide additional customer insights for the identification of customer trends and segments, design of new demand response programs and rate plans, detection of tampering and theft of service, sizing and monitoring of customer level distribution assets, detection of power quality issues, and advance recognition of hazardous conditions.

- b. The attached file called CapEx Loadings contains a breakdown of the A&G, Pension and OPEBs for all projects and their allocations. The metering IT projects are a subset of the Customer Services client related IT projects so only a portion of those costs are in the business unit rollup. The Customer Services IT projects are highlighted in orange on the tab called capital increment loading. The second tab name Customer IT Capital Rate Case contains the base project values, associated project loadings and loaded value of all Customer Services IT projects, including the metering IT projects referenced.
- c. The disallowance of AMI Policy Expansion and AMI Saturation Expansion projects would decrease PSEG Long Island’s CapEx plan by \$7.0M/Year. However, by not investing in AMI, PSEG Long Island would not be able to take advantage of the following planned enhancements and benefits:
 - Employee safety
 - Reduced bill estimates and expansion of monthly meter reading
 - Broader expansion of energy data web presentment
 - Billing and technical meter requirements for the Solar PV and Retail Choice programs
 - NYISO retail settlements and load research
 - OSA meter reading performance
 - O&M savings
 - Remote connect/disconnect
 - System planning and operations
 - Theft detection
 - Meter-to-cash effectiveness, C&I accounts
 - Consolidation of automated meter reading systems (MV-90)

PSEG Long Island
Case Name: PSEG LI - Rate Case 2015
Docket No(s): Matter No. 15-00262

Response to Discovery Request: DPS-CBP-0318
Date of Response: 03/27/2015
Witness: CAPITAL BUDGETS

Question:

- a. Provide a breakdown of the spending allocation for the “New Business” line item shown on Exhibit CBP-2 page 1 of 4 for calendar years 2016, 2017 and 2018 in terms of PJD references B3.1 (New Business Expenditures), B3.2 (CIPUD), B3.3 (Underground Residential Development) and B3.4 (Underground Residential Development Services).
- b. Provide 2014 actual expenditures for PJD reference B3.1, B3.3 and B3.4 as well as historical expenditures for PJD reference B3.2 for each calendar year 2010 through 2014.
- c. Explain how 2015 budgets were calculated from historic data and how 2016, 2017 and 2018 budgets were projected from the 2015 budget.
- d. Provide the historic and projected mix of work performed using in house and contractor resources as well as justification.

Attachments Provided Herewith: 2

DPS-CBP_0318_NewBusiness 2016 - 2018.xlsx
DPS-CBP_0318_NewBusiness Hist Spend 2010 - 2014.xlsx

Response:

- a. Please see attached document “New Business 2016 – 2018.”
- b. Please see attached document “New Business Hist Spend 2010 – 2014.”
- c. The 2015 budget was prepared by considering historical spending from 2011 through 2013 and the 2014 spending forecast as of September 2014. The spike in spending from 2012 to 2013 was attributed to post Hurricane Sandy customer rebuilding activities. The budget for years 2016 through 2018 represents a year over year escalation of 3% from the 2015 budget.
- d. For 2010 through 2012, the mix of in in-house versus contractor labor (by dollars) was approximately 25 % in-house. In 2013, the mix (by dollars) was approximately 40% in-house.

New Business	PJD Reference		2016	2017	2018
	B3.2	CIPUD	\$309,000	\$318,270	\$327,818
	B3.1	New Business	\$18,334,000	\$18,884,020	\$19,450,541
	B3.1	New Business (Credit reimbursement from customers made directly to LIPA)	-\$5,459,000	-\$5,622,770	-\$5,791,453
	B3.3	URD	\$1,895,200	\$1,952,056	\$2,010,618
	B3.4	URD Services	\$412,000	\$424,360	\$437,091
		TOTAL	\$15,491,200	\$15,955,936	\$16,434,615

PJD Reference		2010	2011	2012	2013
B3.1	New Business				
B3.1	New Business Reimbursements				
B3.2	CIPUD	\$955,812	\$641,253	\$424,681	\$38,660
B3.3	URD				
B3.4	URD Services				

2014
\$28,183,639
-\$4,426,470
\$41,451
\$3,521,735
\$497,934

PSEG Long Island
Case Name: PSEG LI - Rate Case 2015
Docket No(s): Matter No. 15-00262

Response to Discovery Request: DPS-CBP-0404
Date of Response: 04/23/2015
Witness: CAPITAL BUDGETS

Question:

Provide the following information including any related work papers. Augment each specific (>\$1M) project included in the Capital Budget as follows:

- a. one-line diagrams as “Before and After” snapshots for substations
- b. diagrams showing proposed C&R or transmission requirements
- c. additional cost detail showing how the Company determined its estimates (e.g. engineering costs, materials, etc.), such as what is included in an Office estimate package
- d. Gantt chart or other timeline to correlate work activities to investment levels provided in the URB books.
- e. Priority responses to a) - d) should be given to the following projects.
 - i. King’s Highway
 - ii. Malverne
 - iii. Berry Street
 - iv. Shelter Island
 - v. Syosset
 - vi. Nassau Hub
 - vii. Amagansett
 - viii. Navy Road

Provide sample C&R that shows the detail work that makes up all of the 2015 projects, including estimates and work activities.

Attachments Provided Herewith: 1

2016-2018_CBP-2_ResponseDPS_Request_404_R1.xlsx

Response:

- a. The zip file entitled “2014 DPS Onelines_Attachment 404 CONFIDENTIAL” contains the entire project one lines in pdf format. The index for this is contained in the file entitled “2016-2018_CBP-2_ResponseDPS_Request_404_1”. The information contained in the Zip Files includes Confidential Critical Infrastructure Information (“CII”), such as detailed diagrams of substation equipment, and is being provided to the DPS Records Access Officer with a request for confidential treatment.
- b. Please see response to part a.
- c. Prior to 2015, PSEG Long Island followed the existing process of National Grid with the understanding that PSEG Long Island would implement a new estimating process using enhanced project management concepts.

For construction of new or modification to existing substations as well as transmission lines, T&D Planning and other departments recommend individual projects at a very high level as part of the budgeting process. In the case of T&D Planning, these are identified at a very high level and then incorporated into the capital budget for consideration for inclusion in LIPA' 5-year budget. Each project is risk scored and evaluated independently, even if consolidated under a blanket. For each project, Planning issues a new Project Justification Document ("PJD") that summarizes the need for the project. Also included is a high level "order of magnitude" cost estimate. The level of which depends on the status and nearness of the project. Generally, for projects that are close to implementation and have been reviewed by Engineering and other departments, more refined cost estimates are developed by these departments. In other cases, especially those projects further out in time where information is still uncertain, planning will generate a planning level estimate based on general construction cost information from Engineering and Design.

The Tables 1 and 2 provided in the attached document (Attachment-Tables-404_Response_CONFIDENTIAL) show general cost estimating data that are used in generating planning type estimates. (The tables are being provided to the DPS Records Officer because they include Confidential Commercial Information about estimated project costs for which PSEG LI is requesting confidential treatment, as it includes costing estimates that would hinder competitive bidding process.) This includes costs for new transmission work as well new distribution substations. These are base starting estimates for future projects that have not been reviewed by Engineering and do not include any risk and contingency ("R&C"). In using these costs, Planning modifies the project cost estimates for specific cases to the extent additional information is available and based on high level discussions with Engineering. For example, costs for land may be adjusted up or down based on the area and/or expected plot size.

In the past, Conceptual to Budget ("C to B") meetings were held where the costs described above were reviewed by the various organization and a detailed cost and schedule was performed for the upcoming year.

For rate case purposes, the costs included in Exhibit ____ (CBP-2) are based on the lump sum estimate included in initial PJDs that were spread based on an order of magnitude to expected project cash flow. In the case where URB documents were submitted, the cash flow was adjusted for this information. Depending on the project, R&C costs were also included.

Starting in 2015, PSEG-LI adopted the PSE&G approach where the project sponsor enters a request for funding, and the four defined "estimating phases" outlined below are used in developing detailed cost estimates and a phased funding approach.

Under this approach, a project estimate will evolve toward decreased risk and increased certainty as project development moves forward and such components of the project as the engineering scope, execution plan, and schedule are more clearly defined. There are four "estimating phases" and corresponding "Confidence Levels" ("CL") to benchmark this evolution of a project estimate. These phases and their benchmark CLs are:

1. Office - Less than 50% CL
2. Study Level Estimate – 50% CL
3. Conceptual Level Estimate – 70% CL
4. Definitive Level Estimate – 90% CL

The estimates are used in varying degrees to obtain approval from the URB. Listed below are the various cost estimate phases and the expected accuracy range for each.

Office Level Estimate (less than 50% Confidence Level)

This Office Level estimate is prepared by the T&D Planning Group in the early stages of the project life cycle and is used to determine a preliminary project plan. Generally a one line diagram is provided without having conducted a field investigation of the viability of the route. It is used for the feasibility study and may also be used to compare various alternatives to project engineering and execution.

A low Confidence Level (CL less than 50%) is usually associated with this type of estimate because little or no information or time is available.

The Project and Controls group will create a Project Work Breakdown Structure work order based on a request from the sponsor, to track costs incurred for estimating performed in support of any project that has the potential to be capitalized.

Study Level Estimate (50% Confidence Level)

The Study Level Estimate is an order of magnitude estimate that is prepared in the early stages of the project life cycle and could be prepared by either the T&D Planning Group or the Project Team. It is used for the feasibility study and may also be used to compare various alternatives to project engineering and execution.

The Estimate Request requires the preparation of a Scope Document for both the Inside Plant (“IP”) and Outside Plant (“OP”) portions of a project. This Scope Document describes in detail the construction plan upon which the estimate is based. The Study Level Estimate is prepared during the Study Phase of the Project Internal Requisition (“IR”) process. A low estimate Confidence Level (CL 50%) is usually associated with this estimate.

For Study Level Estimates, a combined risk and contingency (“R & C”) value of 50% will generally be assigned in the internal requisition (IR) for the project.

Conceptual Level Estimate (70% Confidence Level)

The Conceptual Level Estimate is a total project cost estimate that is prepared during the Conceptual Phase of the Internal Requisition (“IR”) process. Preliminary engineering and design have begun. The Project Work Breakdown Structure has been initiated and defined. Site visits have been conducted, drawings have been pulled, and the project layout has been developed, enabling a more in-depth investigation of project costs, and a Confidence Level of 70% for the estimate.

For Conceptual Level Estimates, a combined risk and contingency value of 30% will generally be assigned in the IR for the project.

Definitive Level Estimate (90% Confidence Level)

The Definitive Level Estimate is prepared when most of the project's risk-related items have been addressed and mitigated. Target Budget is established after the Project "lock down meeting"

- d. Due to the early stage of the process, the items requested in part d typically do not exist at this time. (See also specific responses to DPS-CBP requests for specific projects.)
- e. This response addresses all items.

Additional Question Following Part e. ("Provide sample C&R that shows the detail work that makes up all of the 2015 projects, including estimates and work activities.")

2015 C&R Information (Non-Substation Related Work)

For smaller reinforcement projects that are not associated with a new, or modification at a, substation, Distribution Planning recommends individual projects at a very high level as part of the budgeting process. These are near term in nature, one year out, generally related to new connections to a development in an area, e.g., new buildings, or load growth in the area that requires general reinforcement. Each project is risk scored and evaluated independently, even if consolidated under a blanket. Once the project is approved, Planning issues a new PJD that summarizes the need for the project, work scope, materials, estimated costs based on general construction cost information from design, as well as drawing showing the required reinforcements to be made in the field. In the past, work was segmented into four categories: feeder exits, underground cables, overhead lines and removal costs. This was to facilitate accounting and work assignment. Since 2014, these projects are consolidated under one PJD for budget approval since they exist as one project, even though the four cost segments were maintained.

The 2015 C&R Table shows the C&R projects for 2015. The table shows the original Distribution Planning estimate as well as the adjusted cost included in the URB under the new PSEG Long Island budgeting process which includes R&C. For example, for projects less than \$1 million, all projects other than East Garden City, a 20% adder was applied as these are smaller in nature with less R&C. The East Garden City C&R project did not have an adder as it only entailed construction of upgraded switchgear equipment for a large customer and was very limited in scope of work. Larger projects were reviewed and revised to reflect R&C as well as new information that were available since the time of original cost estimate that was submittal June 2014. In some cases, for example, Park Place, the cost of the feeder estimate was combined in the cost of the substation project that was under way.

The project justification documents that are listed in the 2015 C&R Table are provided in the following files. These files contain Critical Infrastructure Information and are being submitted to the DPS Records Access Officer. They are considered confidential as they contain information showing specific system weakness, costing estimates as well as one line diagrams:

- CR_2015_1_8_Less_Than_\$1M_PJDs_CONFIDENTIAL.zip
- CR_2015_10_14_Greater_than_\$1M_CONFIDENTIAL.zip
- CR_2015_09_Bohemia_2015_Greater_Than_1M_CONFIDENTIAL.pdf

The issued documents are sent to design where the designer will go in to the field and do a detailed design and cost estimate that is used for construction based on actual field conditions. This information is then used to update cost estimates for budgeting purposes.

2015 C&R Less than \$1 Million				
ID	Project	Planning Original Estimate	URB	Delta
CR_2015_01	BUELL OH REINFORCEMENT (E Hamp. Sag Hrbr Tpke / Grid # 123E07-5570)	\$480,300	\$576,360	120%
CR_2015_01	BUELL UG REINFORCEMENT (E Hamp. Sag Hrbr Tpke / Grid # 123E07-5570)	\$78,300	\$93,960	120%
CR_2015_02	Centereach Reconductoring 8E-827 & 8D-734	\$378,000	\$453,600	120%
CR_2015_03	Distribution Capacitor Installation Program (25 units)	\$273,000	\$325,000	119%
CR_2015_04	North Shore Beach Reconductoring 8Q-6K6	\$384,000	\$460,800	120%
CR_2015_05	ORCHARD (C&R establish BU Red Spring Lane - OH)	\$72,000	\$86,400	120%
CR_2015_05	ORCHARD (C&R establish BU Red Spring Lane - UG)	\$270,000	\$324,000	120%
CR_2015_06	SOUTHOLD OH REINFORCEMENT (Main Rd / Grid # 107E44-0135)	\$226,800	\$272,160	120%
CR_2015_07	West Brentwood UG C&R- Bimbo Dedicated feed 7F-608 Spence St & 5th Ave/Grid #048-39-1147)	\$250,000	\$300,000	120%
CR_2015_08	EGC (4H) C&R (UG Portion)	\$724,000	\$724,000	100%
Electric System Planning Jobs (C&R/DSI) Total		\$3,136,400	\$3,616,280	115%
2015 C&R Greater than \$1 million				
CR_2015_09	Bohemia Feeder	\$ 1,163,000	\$ 1,564,000	134%
CR_2015_10	PARK PLACE (2A) Feeder	\$ 1,500,000	\$ 3,640,000	243%
CR_2015_11	Greenlawn Feeder	\$ 3,145,000	\$ 3,700,000	118%
CR_2015_12	Riverhead Feeder	\$ 2,017,860	\$ 4,000,000	198%
CR_2015_13	SMITHTOWN (6D) DOT Highway	\$ 1,060,000	\$ 1,200,000	113%
CR_2015_14	TECH PARK (7S) Feeder	\$ 1,400,000	\$ 1,700,000	121%
Conversion & Reinforcements (C&R) & New Exits Individually		\$ 10,285,860	\$ 15,804,000	154%
Grand Total		\$13,422,260	\$19,420,280	145%

Please see Tables 3 and 4 in the Attachment-Tables-404-Response_CONFIDENTIAL that provide sample overhead and underground C&R costs used in developing C&R project estimates.

PSEG Long Island
Case Name: PSEG LI - Rate Case 2015
Docket No(s): Matter No. 15-00262

Response to Discovery Request: DPS-CBP-0432
Date of Response: 04/28/2015
Witness: CAPITAL BUDGETS

Question:

- a. Provide a detailed breakdown describing the \$12 Million removed from the Capital Budget by Category/ Line Item/Project due to the FEMA Grant as stated on page 35 of the Capital Budget Testimony. The breakdown should provide the amount allocated from the FEMA Grant to each category, line item, project in the Capital Budget.
- b. In the response to discovery request: CITY-0031, the company provided the attachment CITY_0031_FEMA Circuit List.xlsx. Please identify which circuits on this list have been used to reduce the capital budget spending.
- c. On Page 35 of the testimony the company has provided a description of the parameters defined by FEMA for the use of the Grant income. Expand on this description by clearly defining any additional limitations imposed by FEMA and also describe how such limitations impact the capital budget.
- d. Provide detailed information on the mainline distribution circuit mileage in the service territory including but not limited to the following:
 - i. How Mainline Distribution Circuits are defined.
 - ii. The number of miles of Mainline Distribution Circuits on the system.
 - iii. A list identifying all Mainline Distribution Circuits and their respective mileage, Substation origin, Voltage level, and any additional identifiable information including reliability data.

Attachments Provided Herewith: 1

DPS-CBP-0432- Dist Ckt Profile from EGIS for DPS_432.xls

Response:

- a. As detailed in response to DPS-CBP-294, the FEMA Grant has very limited impact to the capital budget because these funds cannot be used to offset other capital projects or expenditures. The savings to the capital program is where there is an overlap between the programs. The level of overlap had to be estimated because circuit inspections and design of hardening projects has not yet been completed. The areas and level of expected overlap in the capital budget are:
 - Distribution ASUs – This program will be completely offset by the FEMA program during 2016 through 2018. Approximate reduction of \$1.3M
 - Multiple Interruption Program – A portion of the mainline work done under this program will be offset by the FEMA funding. Approximate reduction of \$1.2M
 - Circuit Improvement program - A portion of the mainline work done under this program will be offset by the FEMA funding. Approximate reduction of \$1M
 - Distribution Pole Replacement / Reinforcement – It is expected that the FEMA program will fund replacement of 10% to 35% of only mainline poles on the 300 targeted circuits. No

branch line or secondary/service poles will be addressed under the FEMA program. A small percentage of the poles to be replaced under the FEMA program could have been addressed under the annual pole replacement program. Most of the poles replaced under the FEMA program will be done to increase their size or strength and not because they are deteriorated.

Approximate reduction of \$1.3M

- Transmission Pole Replacements- A portion of transmission pole replacement work done under this program will be offset by the FEMA funding.

Approximate reduction of \$600K

- Storm Hardening – This program will be completely offset by the FEMA funding.

Approximate reduction of \$6.2M

- b. Budget reductions were based on the mileage to be hardened across all 300 circuits. Field inspection, engineering and design of the storm hardening measures have only recently commenced for the FEMA targeted circuits. These inspections will not be able to identify specific poles or portions of circuits which might have otherwise been done as part of normal capital programs.
- c. As detailed in response to City – 045, the FEMA funded program cannot be used to address load related issues or to increase power delivery capability. It can only be used to the improve resilience of mainline utility facilities to operate during storm conditions. Existing underground facilities are outside of the scope of the FEMA program as are overhead branch line facilities. Equipment replacement or upgrade non-specifically needed for storm hardening of Superstorm Sandy damaged facilities cannot be funded under the FEMA program.
- d.
 - i. Mainline Distribution Circuits are unfused 3 phase lines running from a distribution substation breaker to supply 3 phase and single phase customer load. Distribution Mainlines can carry the full electrical capacity of a circuit. Branch lines are connected to the main line using fuses sized to carry less than the full capacity of a circuit. Circuit mainlines are typically sized to carry up to 560 amps.
 - ii. There are approximately 3600 miles of overhead distribution mainline facilities on the system.
 - iii. The attached spreadsheet “Dist Ckt Profile from EGIS for DPS_432.xls” identifies all Mainline Distribution Circuits, their respective mileage, substation of origin, voltage level and overhead and underground mileages. The reliability criteria used to rank the circuit mainlines for the 300 circuits included in the FEMA program is total customers interrupted. This data was provided in response to Discovery Request City – 31.

Sub	SubName	Div	FEEDERID	Voltage	Overhead Primary			Underground Primary		
					OHMain	OHBranch	Total OH	UGMain	UGBranch	Total UG
					<i>miles</i>	<i>miles</i>	<i>miles</i>	<i>miles</i>	<i>miles</i>	<i>miles</i>
2A	Park Place	QN	2A174	13	2.39	6.57	8.95	1.38	0.33	1.71
2A	Park Place	QN	2A175	13	1.78	5.09	6.88	0.55	0.21	0.76
2A	Park Place	QN	2A176	13	3.00	3.38	6.37	1.03	0.74	1.77
2AB	Corona Ave	QN	2AB517	13	3.39	3.92	7.32	0.07	0.06	0.13
2AB	Corona Ave	QN	2AB518	13	3.32	8.47	11.79	0.16	0.43	0.59
2AB	Corona Ave	QN	2AB519	13	4.26	9.98	14.23	0.19	0.28	0.47
2AB	Corona Ave	QN	2AB524	13	5.44	11.80	17.24	0.34	0.33	0.67
2AB	Corona Ave	QN	2AB525	13	2.62	10.68	13.29	0.16	2.72	2.88
2AB	Corona Ave	QN	2AB526	13	4.30	10.38	14.68	0.81	1.21	2.02
2AR	Arverne	QN	2AR1L2	13	0.30	0.02	0.32	0.06	0.22	0.28
2AR	Arverne	QN	2AR1L5	13	2.42	3.45	5.87	0.06	1.23	1.29
2AR	Arverne	QN	2AR7H4	13	1.66	3.13	4.79	0.93	2.71	3.63
2AR	Arverne	QN	2AR7H5	13	2.86	4.49	7.35	0.43	4.55	4.98
2AR	Arverne	QN	2AR7H6	13	1.79	2.12	3.91	0.33	0.28	0.61
2BB	Broadway	QN	2BB531	4	0.72	0.75	1.47	0.51	2.47	2.99
2BB	Broadway	QN	2BB561	4	1.20	0.98	2.17	0.31	1.70	2.01
2G	Rockaway Beach	QN	2G401	4	1.21	1.64	2.85	0.05	0.08	0.13
2G	Rockaway Beach	QN	2G402	4	0.48	1.14	1.61	0.38	0.05	0.43
2G	Rockaway Beach	QN	2G407	4	0.87	1.12	1.99	0.02	0.07	0.10
2G	Rockaway Beach	QN	2G412	13	6.17	8.88	15.06	2.46	0.48	2.94
2G	Rockaway Beach	QN	2G414	13	4.86	2.94	7.80	1.41	0.52	1.93
2G	Rockaway Beach	QN	2G415	13	0.00	0.01	0.01	1.17	1.14	2.31
2G	Rockaway Beach	QN	2G416	13	2.23	2.60	4.83	0.75	3.84	4.59
2G	Rockaway Beach	QN	2G417	13	0.86	1.28	2.14	2.69	5.50	8.19
2G	Rockaway Beach	QN	2G5N7	13	4.17	6.23	10.40	0.04	-	0.04
2H	Far Rockaway	QN	2H377	13	1.93	2.56	4.50	0.56	0.12	0.68
2H	Far Rockaway	QN	2H378	13	4.24	4.36	8.60	0.06	0.41	0.47
2H	Far Rockaway	QN	2H574	13	2.83	2.49	5.32	0.13	0.77	0.90
2H	Far Rockaway	QN	2H575	13	-	-	-	1.17	1.93	3.10
2H	Far Rockaway	QN	2H576	13	1.50	1.28	2.78	1.31	1.65	2.96
2H	Far Rockaway	QN	2H577	13	3.60	7.65	11.26	0.10	2.33	2.43
2H	Far Rockaway	QN	2H578	13	3.52	3.95	7.47	0.05	0.71	0.76
2H	Far Rockaway	QN	2H579	13	3.04	4.17	7.21	0.50	2.23	2.73
2H	Far Rockaway	QN	2H587	13	3.64	3.04	6.68	0.15	1.07	1.23
2H	Far Rockaway	QN	2H589	13	2.08	3.85	5.93	0.06	0.15	0.21
2K	Valley Stream	QN	2K438	4	1.44	2.66	4.10	0.04	0.10	0.14
2K	Valley Stream	QN	2K439	4	0.00	-	0.00	0.06	-	0.06
2K	Valley Stream	QN	2K534	13	3.03	3.41	6.45	0.30	0.16	0.46
2K	Valley Stream	QN	2K535	13	4.05	6.82	10.87	0.23	0.38	0.61
2K	Valley Stream	QN	2K536	13	4.67	7.83	12.50	0.12	0.35	0.48
2K	Valley Stream	QN	2K537	13	3.91	4.40	8.31	0.54	1.02	1.56
2K	Valley Stream	QN	2K538	13	2.30	3.47	5.77	0.13	0.51	0.64
2K	Valley Stream	QN	2K544	13	5.22	6.84	12.06	0.32	0.32	0.64
2KB	Cedarhurst	QN	2KB496	4	0.02	-	0.02	0.22	-	0.22
2KB	Cedarhurst	QN	2KB497	4	0.22	0.05	0.27	0.27	0.10	0.37
2KB	Cedarhurst	QN	2KB499	4	0.55	0.43	0.98	0.01	0.09	0.10
2KB	Cedarhurst	QN	2KB502	4	0.00	-	0.00	0.09	-	0.09
2L	Lynbrook	QN	2L451	4	0.16	0.00	0.17	0.23	0.09	0.32
2L	Lynbrook	QN	2L453	4	0.51	0.26	0.77	0.29	0.07	0.36
2L	Lynbrook	QN	2L454	4	0.17	0.03	0.20	0.11	0.01	0.12
2L	Lynbrook	QN	2L455	4	0.42	0.45	0.86	0.16	0.08	0.24

2M	Long Beach	QN	2M485	13	4.59	8.51	13.10	3.76	4.18	7.94
2M	Long Beach	QN	2M486	13	3.55	3.81	7.37	2.04	1.60	3.64
2M	Long Beach	QN	2M487	13	5.46	6.75	12.21	1.89	4.24	6.13
2M	Long Beach	QN	2M552	13	0.17	0.14	0.31	0.62	-	0.62
2M	Long Beach	QN	2M597	13	2.27	6.83	9.10	1.13	1.20	2.33
2M	Long Beach	QN	2M598	13	0.10	-	0.10	0.27	0.11	0.38
2M	Long Beach	QN	2M599	13	1.84	2.26	4.10	3.75	7.35	11.10
2M	Long Beach	QN	2M7N2	13	0.50	1.51	2.01	0.50	0.45	0.95
2MA	Woodmere	QN	2MA571	13	3.39	4.08	7.47	1.13	1.22	2.35
2MA	Woodmere	QN	2MA572	13	3.12	5.95	9.07	0.04	0.29	0.33
2MA	Woodmere	QN	2MA573	13	1.51	3.37	4.89	1.37	0.84	2.21
2MA	Woodmere	QN	2MA581	13	5.60	7.24	12.84	0.13	0.84	0.97
2MA	Woodmere	QN	2MA582	13	2.96	7.82	10.78	0.08	0.08	0.16
2MA	Woodmere	QN	2MA583	13	3.48	3.66	7.15	0.02	0.24	0.26
2QB	Prospect	QN	2QB545	4	0.94	0.37	1.31	0.74	2.92	3.66
2QB	Prospect	QN	2QB546	4	1.19	1.71	2.91	0.12	0.14	0.26
2QB	Prospect	QN	2QB547	4	1.18	0.70	1.88	0.05	2.81	2.86
2QB	Prospect	QN	2QB548	4	1.23	0.21	1.43	1.86	1.90	3.76
2QB	Prospect	QN	2QB549	4	0.95	0.21	1.16	3.37	3.81	7.18
2QB	Prospect	QN	2QB551	4	1.87	1.28	3.15	0.57	2.09	2.66
2R	Hewlett	QN	2R1K3	13	4.03	6.93	10.96	0.39	0.81	1.20
2R	Hewlett	QN	2R1K4	13	3.17	3.94	7.12	0.39	4.44	4.82
2R	Hewlett	QN	2R429	13	4.68	6.84	11.52	0.21	0.49	0.70
2R	Hewlett	QN	2R431	4	0.24	0.02	0.26	0.01	0.08	0.09
2R	Hewlett	QN	2R432	4	0.37	0.24	0.61	0.04	0.01	0.05
2R	Hewlett	QN	2R433	4	0.06	-	0.06	0.02	-	0.02
2R	Hewlett	QN	2R434	4	0.04	-	0.04	0.01	-	0.01
2R	Hewlett	QN	2R436	13	2.08	6.43	8.52	0.04	0.04	0.08
2R	Hewlett	QN	2R437	13	4.75	11.61	16.35	0.07	0.43	0.50
2RB	Green Acres	QN	2RB511	13	3.15	6.99	10.14	1.11	0.66	1.77
2RB	Green Acres	QN	2RB512	13	-	-	-	0.35	0.59	0.93
2RB	Green Acres	QN	2RB513	13	-	-	-	0.12	0.76	0.88
2RB	Green Acres	QN	2RB514	13	-	-	-	0.24	0.70	0.93
2RB	Green Acres	QN	2RB515	13	-	-	-	0.12	0.77	0.89
2RB	Green Acres	QN	2RB516	13	1.23	0.74	1.97	0.20	0.25	0.45
2W	Central Ave	QN	2W441	4	0.65	0.38	1.02	0.07	-	0.07
2W	Central Ave	QN	2W442	4	1.07	1.23	2.30	0.05	0.05	0.10
2W	Central Ave	QN	2W443	4	0.44	1.68	2.12	0.06	-	0.06
2W	Central Ave	QN	2W444	4	0.72	1.41	2.13	0.02	0.02	0.03
2W	Central Ave	QN	2W457	4	0.72	2.53	3.25	0.07	0.25	0.32
2W	Central Ave	QN	2W458	4	0.88	2.26	3.14	0.09	0.04	0.13
2WB	E.F.Barrett	QN	2WB3P5	13	0.03	-	0.03	0.10	-	0.10
2WB	E.F.Barrett	QN	2WB3P6	13	2.69	7.74	10.44	0.10	1.75	1.86
2WB	E.F.Barrett	QN	2WB3P7	13	1.77	1.96	3.73	0.22	0.17	0.40
2WB	E.F.Barrett	QN	2WB3P8	13	4.29	10.00	14.28	0.09	0.72	0.81
2WB	E.F.Barrett	QN	2WB559	13	4.53	6.13	10.66	0.38	0.44	0.82
2WB	E.F.Barrett	QN	2WB585	13	3.24	6.30	9.53	0.15	0.39	0.54
2WB	E.F.Barrett	QN	2WB591	13	1.23	5.81	7.04	0.23	3.89	4.12
2WB	E.F.Barrett	QN	2WB592	13	2.58	5.65	8.22	0.44	0.14	0.57
2WB	E.F.Barrett	QN	2WB593	13	1.37	1.29	2.66	0.21	2.63	2.84
2WB	E.F.Barrett	QN	2WB594	13	3.50	6.83	10.33	0.06	0.54	0.60
2WB	E.F.Barrett	QN	2WB596	13	5.47	9.23	14.70	0.37	0.92	1.28
3A	Great Neck	CN	3A145	13	-	-	-	-	-	-

3A	Great Neck	CN	3A146	13	2.04	-	2.04	0.03	-	0.03
3A	Great Neck	CN	3A147	13	2.38	3.47	5.85	0.92	0.03	0.94
3A	Great Neck	CN	3A148	13	5.10	8.17	13.27	0.90	2.13	3.03
3A	Great Neck	CN	3A149	13	4.28	5.79	10.06	0.80	0.72	1.52
3A	Great Neck	CN	3A151	13	1.73	3.43	5.16	0.80	0.75	1.55
3A	Great Neck	CN	3A353	13	3.61	6.99	10.60	1.16	2.05	3.21
3A	Great Neck	CN	3A354	13	4.00	6.39	10.39	0.78	0.91	1.69
3A	Great Neck	CN	3A355	13	0.94	3.28	4.22	1.13	0.91	2.05
3A	Great Neck	CN	3A356	13	2.47	7.09	9.56	1.73	1.99	3.72
3A	Great Neck	CN	3A357	13	0.16	0.17	0.33	0.75	1.13	1.89
3A	Great Neck	CN	3A358	13	2.54	6.93	9.47	0.01	1.11	1.12
3A	Great Neck	CN	3A5N1	13	2.23	6.16	8.39	0.72	0.87	1.58
3A	Great Neck	CN	3A5N2	13	3.60	11.19	14.79	2.16	3.28	5.44
3A	Great Neck	CN	3A5N3	13	1.36	6.57	7.93	1.70	1.11	2.82
3A	Great Neck	CN	3A7N9	13	2.70	1.58	4.28	0.11	0.80	0.92
3AG	Lake Success	CN	3AG064	13	2.26	4.53	6.78	0.82	1.00	1.83
3AG	Lake Success	CN	3AG065	13	2.17	5.94	8.11	1.65	0.21	1.86
3AG	Lake Success	CN	3AG066	13	2.82	11.24	14.06	0.32	0.68	1.00
3AG	Lake Success	CN	3AG069	13	2.64	6.46	9.10	1.11	0.44	1.54
3AG	Lake Success	CN	3AG073	13	-	-	-	1.05	0.57	1.62
3AG	Lake Success	CN	3AG226	13	4.80	6.17	10.97	0.03	0.32	0.36
3AG	Lake Success	CN	3AG227	13	0.75	0.15	0.90	1.23	0.66	1.90
3AG	Lake Success	CN	3AG228	13	0.89	1.48	2.37	0.21	0.99	1.20
3AG	Lake Success	CN	3AG229	13	0.66	0.20	0.86	0.27	0.87	1.14
3AG	Lake Success	CN	3AG277	13	3.67	9.78	13.45	0.70	0.30	1.00
3B	Floral Park	QN	3B053	4	0.00	-	0.00	0.01	-	0.01
3B	Floral Park	QN	3B054	4	0.01	-	0.01	0.02	-	0.02
3B	Floral Park	QN	3B056	4	1.06	0.18	1.23	0.02	0.07	0.08
3B	Floral Park	QN	3B057	4	0.74	1.05	1.79	0.04	0.10	0.14
3BG	Kings Point	CN	3BG067	4	1.86	1.77	3.63	0.82	2.74	3.55
3BG	Kings Point	CN	3BG068	4	1.23	1.56	2.79	0.01	0.15	0.15
3D	Manhasset	CN	3D359	13	-	-	-	0.38	8.21	8.59
3D	Manhasset	CN	3D384	13	1.49	2.76	4.25	0.27	0.86	1.13
3D	Manhasset	CN	3D385	13	1.82	2.80	4.62	0.49	0.07	0.55
3D	Manhasset	CN	3D386	13	1.89	1.71	3.60	0.05	0.67	0.73
3D	Manhasset	CN	3D387	13	3.29	12.10	15.39	0.35	1.05	1.41
3D	Manhasset	CN	3D388	13	2.79	4.09	6.87	0.24	2.54	2.77
3D	Manhasset	CN	3D389	13	4.81	2.78	7.60	0.42	17.63	18.05
3G	Elmont	QN	3G005	4	0.49	0.23	0.72	0.02	0.02	0.04
3G	Elmont	QN	3G036	4	0.67	1.35	2.02	0.02	-	0.02
3G	Elmont	QN	3G323	4	0.53	0.10	0.63	0.13	0.53	0.67
3G	Elmont	QN	3G324	4	1.22	1.49	2.72	0.11	0.01	0.12
3H	Port Washington	CN	3H080	13	3.56	10.51	14.08	0.09	0.82	0.91
3H	Port Washington	CN	3H081	13	2.72	3.96	6.68	0.07	3.83	3.90
3H	Port Washington	CN	3H083	13	3.89	5.79	9.68	0.02	0.70	0.72
3H	Port Washington	CN	3H154	13	1.42	-	1.42	1.54	0.01	1.54
3H	Port Washington	CN	3H155	13	4.51	7.83	12.34	0.51	8.48	8.99
3H	Port Washington	CN	3H156	13	0.05	-	0.05	1.52	-	1.52
3H	Port Washington	CN	3H157	13	3.18	10.82	14.00	0.15	1.86	2.01
3H	Port Washington	CN	3H158	13	1.72	1.14	2.86	0.02	0.13	0.15
3H	Port Washington	CN	3H7K8	13	3.73	12.20	15.93	1.85	6.89	8.74
3J	Whiteside	QN	3J196	13	4.68	8.94	13.61	1.46	0.06	1.52
3J	Whiteside	QN	3J197	13	3.19	10.05	13.24	0.24	0.41	0.65

3J	Whiteside	QN	3J198	13	4.95	10.84	15.79	0.09	0.33	0.42
3J	Whiteside	QN	3J199	13	4.31	10.92	15.24	1.18	0.65	1.83
3J	Whiteside	QN	3J295	13	3.01	6.94	9.95	0.29	0.47	0.76
3J	Whiteside	QN	3J5P1	13	3.64	7.49	11.13	0.05	0.27	0.32
3J	Whiteside	QN	3J5P2	13	3.75	10.77	14.52	0.28	0.31	0.60
3J	Whiteside	QN	3J5P3	13	4.89	13.87	18.76	0.07	0.28	0.35
3KG	Herricks	CN	3KG296	13	2.28	-	2.28	1.17	0.03	1.20
3KG	Herricks	CN	3KG297	13	2.36	5.54	7.89	1.52	3.28	4.81
3KG	Herricks	CN	3KG298	13	0.41	-	0.41	0.08	-	0.08
3KG	Herricks	CN	3KG299	13	2.05	5.69	7.75	0.12	1.08	1.19
3KG	Herricks	CN	3KG301	13	2.89	5.36	8.26	0.12	0.25	0.38
3KG	Herricks	CN	3KG302	13	4.93	10.68	15.61	0.08	0.66	0.74
3KG	Herricks	CN	3KG303	13	5.18	10.24	15.42	0.15	2.62	2.77
3KG	Herricks	CN	3KG304	13	1.77	3.61	5.38	0.14	0.71	0.85
3LG	North Hills	CN	3LG311	13	2.21	6.97	9.18	0.07	0.95	1.02
3LG	North Hills	CN	3LG312	13	1.56	3.18	4.74	0.48	6.31	6.79
3LG	North Hills	CN	3LG313	13	1.76	6.17	7.93	0.39	7.16	7.55
3LG	North Hills	CN	3LG314	13	2.34	7.28	9.61	0.08	1.62	1.70
3LG	North Hills	CN	3LG3K1	13	-	-	-	2.34	4.61	6.95
3LG	North Hills	CN	3LG409	13	2.57	1.15	3.73	1.37	2.03	3.40
3LG	North Hills	CN	3LG418	13	-	0.00	0.00	2.69	2.12	4.80
3LG	North Hills	CN	3LG419	13	1.63	2.87	4.50	1.26	0.89	2.15
3MG	Malvern	QN	3MG041	4	1.33	1.59	2.92	0.12	-	0.12
3MG	Malvern	QN	3MG042	4	1.70	2.60	4.31	0.08	0.10	0.18
3MG	Malvern	QN	3MG334	4	2.37	6.03	8.39	0.19	0.25	0.44
3MG	Malvern	QN	3MG336	4	1.36	1.84	3.20	0.47	0.17	0.63
3MG	Malvern	QN	3MG337	4	1.36	2.65	4.01	0.02	0.03	0.05
3R	West Hempstead	QN	3R044	13	1.27	-	1.27	0.61	-	0.61
3R	West Hempstead	QN	3R045	13	1.22	-	1.22	0.59	-	0.59
3R	West Hempstead	QN	3R046	13	1.49	2.54	4.03	2.38	2.17	4.54
3R	West Hempstead	QN	3R048	13	5.73	10.74	16.48	1.32	0.70	2.02
3R	West Hempstead	QN	3R049	13	4.16	9.88	14.04	0.24	0.49	0.73
3R	West Hempstead	QN	3R050	13	3.56	7.37	10.93	0.73	1.72	2.45
3R	West Hempstead	QN	3R051	13	2.94	3.54	6.47	1.14	0.73	1.87
3R	West Hempstead	QN	3R052	13	4.86	11.44	16.30	1.23	1.17	2.40
3R	West Hempstead	QN	3R189	13	3.21	6.64	9.84	0.95	2.89	3.84
3R	West Hempstead	QN	3R201	13	-	-	-	1.48	1.08	2.56
3R	West Hempstead	QN	3R202	13	-	-	-	1.95	1.12	3.07
3R	West Hempstead	QN	3R203	13	-	-	-	1.67	0.79	2.45
3R	West Hempstead	QN	3R204	13	-	-	-	1.51	1.33	2.84
3R	West Hempstead	QN	3R205	13	-	-	-	1.00	2.38	3.38
3R	West Hempstead	QN	3R206	13	-	-	-	1.44	1.02	2.46
3W	Garden City Park	CN	3W001	4	0.83	0.90	1.73	0.02	0.09	0.11
3W	Garden City Park	CN	3W002	4	0.55	0.38	0.92	0.02	0.15	0.17
3W	Garden City Park	CN	3W004	4	0.58	0.76	1.34	0.09	0.58	0.67
4AH	Carle Place	CN	4AH135	13	1.28	0.19	1.47	1.00	0.87	1.87
4AH	Carle Place	CN	4AH136	13	3.53	8.04	11.56	0.18	0.75	0.92
4AH	Carle Place	CN	4AH137	13	2.13	3.82	5.96	0.30	2.49	2.79
4AH	Carle Place	CN	4AH138	13	4.89	11.41	16.31	0.16	0.93	1.10
4AH	Carle Place	CN	4AH139	13	1.44	1.12	2.55	0.20	1.74	1.94
4AH	Carle Place	CN	4AH152	13	2.95	2.68	5.63	0.22	0.65	0.87
4AH	Carle Place	CN	4AH195	13	3.20	4.92	8.12	0.42	0.55	0.96
4AH	Carle Place	CN	4AH344	13	3.58	12.15	15.73	0.22	0.28	0.50

4AH	Carle Place	CN	4AH361	13	3.45	2.42	5.87	0.18	1.14	1.31
4AH	Carle Place	CN	4AH362	13	-	-	-	2.40	-	2.40
4AH	Carle Place	CN	4AH363	13	5.01	9.92	14.93	0.37	5.04	5.41
4AH	Carle Place	CN	4AH364	13	1.43	1.71	3.13	0.84	0.75	1.59
4AH	Carle Place	CN	4AH365	13	0.64	-	0.64	1.14	-	1.14
4B	Roslyn	CN	4B113	13	4.67	8.73	13.40	0.16	1.04	1.20
4B	Roslyn	CN	4B114	13	2.61	6.62	9.23	0.13	1.09	1.22
4B	Roslyn	CN	4B115	13	5.56	9.77	15.33	1.10	10.80	11.90
4B	Roslyn	CN	4B116	13	2.91	11.62	14.54	0.22	0.29	0.51
4B	Roslyn	CN	4B117	13	2.15	5.49	7.64	0.39	0.39	0.78
4B	Roslyn	CN	4B118	13	2.44	7.70	10.14	0.34	0.27	0.61
4B	Roslyn	CN	4B119	13	2.75	3.38	6.13	0.09	1.89	1.98
4B	Roslyn	CN	4B5P9	13	4.03	10.34	14.37	0.52	0.46	0.98
4D	Country Life Press	QN	4D121	4	0.81	3.41	4.22	1.24	2.99	4.23
4D	Country Life Press	QN	4D122	4	0.67	0.48	1.15	0.16	1.01	1.17
4D	Country Life Press	QN	4D123	4	0.48	0.35	0.84	0.76	0.61	1.36
4D	Country Life Press	QN	4D124	4	0.71	1.23	1.94	0.04	1.04	1.08
4E	Greenfield	QN	4E284	4	0.52	0.01	0.53	0.07	-	0.07
4E	Greenfield	QN	4E285	4	0.66	1.66	2.33	0.07	0.03	0.10
4E	Greenfield	QN	4E286	4	0.63	1.71	2.34	0.04	0.40	0.44
4E	Greenfield	QN	4E287	4	2.61	4.05	6.66	0.03	0.18	0.22
4E	Greenfield	QN	4E288	4	2.00	2.75	4.76	0.14	0.03	0.17
4E	Greenfield	QN	4E289	4	0.79	1.21	1.99	0.13	0.11	0.25
4GH	Glenhead	CN	4GH186	13	2.99	5.15	8.14	0.11	3.49	3.60
4GH	Glenhead	CN	4GH187	13	5.39	7.00	12.38	0.03	0.50	0.52
4GH	Glenhead	CN	4GH188	13	4.12	10.42	14.54	0.09	1.89	1.98
4GH	Glenhead	CN	4GH4P7	13	4.24	7.88	12.12	0.56	2.45	3.01
4GH	Glenhead	CN	4GH4P8	13	4.66	7.35	12.01	0.24	0.99	1.23
4GH	Glenhead	CN	4GH4P9	13	3.52	6.21	9.73	0.27	3.08	3.35
4GH	Glenhead	CN	4GH853	13	3.57	5.87	9.44	0.15	1.24	1.39
4H	East Garden City	QN	4H008	4	0.06	1.92	1.98	2.09	1.76	3.85
4H	East Garden City	QN	4H013	4	0.52	-	0.52	0.05	-	0.05
4H	East Garden City	QN	4H014	4	0.38	0.01	0.39	0.13	0.05	0.18
4H	East Garden City	QN	4H237	13	0.65	0.02	0.67	3.01	0.45	3.46
4H	East Garden City	QN	4H238	13	-	-	-	0.67	1.83	2.50
4H	East Garden City	QN	4H239	13	0.00	-	0.00	1.34	3.31	4.65
4H	East Garden City	QN	4H251	13	-	-	-	2.20	0.00	2.21
4H	East Garden City	QN	4H252	13	3.59	11.01	14.60	1.45	2.10	3.55
4H	East Garden City	QN	4H253	13	-	-	-	2.33	0.04	2.37
4H	East Garden City	QN	4H254	13	-	-	-	2.24	0.00	2.25
4H	East Garden City	QN	4H255	13	0.69	0.33	1.02	1.65	0.59	2.24
4H	East Garden City	QN	4H256	13	-	-	-	2.25	0.05	2.30
4H	East Garden City	QN	4H257	13	1.79	4.54	6.33	2.10	0.42	2.52
4H	East Garden City	QN	4H381	13	1.53	1.52	3.05	1.93	0.90	2.83
4H	East Garden City	QN	4H382	13	0.48	0.17	0.65	0.07	0.35	0.41
4H	East Garden City	QN	4H383	13	4.65	3.34	7.99	0.61	5.08	5.70
4H	East Garden City	QN	4H395	13	-	-	-	1.93	-	1.93
4H	East Garden City	QN	4H507	13	-	-	-	0.63	1.86	2.48
4H	East Garden City	QN	4H508	13	0.00	-	0.00	3.09	1.35	4.44
4H	East Garden City	QN	4H509	13	0.55	0.43	0.98	2.28	1.63	3.91
4H	East Garden City	QN	4H6P8	13	-	-	-	2.08	1.77	3.84
4H	East Garden City	QN	4H6P9	13	-	-	-	1.97	1.81	3.78
4J	Brookville	CN	4J396	13	4.30	7.76	12.06	0.03	10.73	10.76

4J	Brookville	CN	4J397	13	4.08	11.29	15.38	0.07	5.87	5.94
4J	Brookville	CN	4J398	13	3.70	4.82	8.52	0.42	6.55	6.98
4J	Brookville	CN	4J399	13	4.38	6.24	10.62	1.49	17.48	18.98
4J	Brookville	CN	4J491	13	4.87	5.93	10.80	0.52	10.08	10.60
4J	Brookville	CN	4J492	13	2.35	2.13	4.48	1.36	4.35	5.71
4K	Hempstead	QN	4K015	4	0.84	0.93	1.77	0.13	0.76	0.89
4K	Hempstead	QN	4K016	4	1.34	0.99	2.33	0.16	0.16	0.32
4K	Hempstead	QN	4K017	4	0.19	0.36	0.55	0.23	0.01	0.24
4K	Hempstead	QN	4K019	4	0.47	0.10	0.57	0.24	0.09	0.33
4K	Hempstead	QN	4K020	4	1.18	1.25	2.44	0.38	0.13	0.51
4K	Hempstead	QN	4K023	4	0.92	0.80	1.71	0.21	0.12	0.33
4KH	Lakeview	QN	4KH192	4	1.51	2.50	4.01	0.08	0.74	0.82
4KH	Lakeview	QN	4KH193	4	0.94	2.18	3.12	0.11	0.05	0.16
4KH	Lakeview	QN	4KH194	4	0.68	1.20	1.88	0.11	0.04	0.16
4M	Baldwin	QN	4M037	13	6.63	11.56	18.19	0.11	0.36	0.47
4M	Baldwin	QN	4M043	13	5.76	8.62	14.38	0.10	0.41	0.51
4M	Baldwin	QN	4M161	13	2.68	8.23	10.91	0.13	0.38	0.51
4M	Baldwin	QN	4M162	13	1.33	0.45	1.77	0.10	0.03	0.13
4M	Baldwin	QN	4M163	13	4.70	10.68	15.38	0.02	0.50	0.53
4M	Baldwin	QN	4M164	13	3.82	9.28	13.11	0.18	1.11	1.29
4M	Baldwin	QN	4M9H5	13	4.29	10.97	15.26	0.19	0.20	0.39
4M	Baldwin	QN	4M9H6	13	3.07	8.12	11.19	0.39	1.59	1.98
4MG	Mitchel Gardens	QN	4MG207	13	2.53	8.96	11.49	1.08	1.63	2.70
4MG	Mitchel Gardens	QN	4MG208	13	3.53	8.49	12.01	2.03	4.61	6.63
4MG	Mitchel Gardens	QN	4MG291	13	1.01	0.29	1.30	2.93	5.09	8.02
4MG	Mitchel Gardens	QN	4MG292	13	1.59	1.57	3.16	1.23	2.75	3.98
4MG	Mitchel Gardens	QN	4MG293	13	0.80	0.46	1.26	0.05	0.37	0.42
4MG	Mitchel Gardens	QN	4MG327	13	-	-	-	2.20	1.03	3.23
4MG	Mitchel Gardens	QN	4MG339	13	1.20	0.69	1.89	0.80	2.98	3.78
4MG	Mitchel Gardens	QN	4MG421	13	2.68	6.77	9.46	0.23	3.70	3.93
4MG	Mitchel Gardens	QN	4MG422	13	-	-	-	2.37	0.57	2.94
4MG	Mitchel Gardens	QN	4MG423	13	-	-	-	1.14	-	1.14
4MG	Mitchel Gardens	QN	4MG424	13	-	-	-	1.25	-	1.25
4MG	Mitchel Gardens	QN	4MG435	13	2.02	0.81	2.83	0.29	3.84	4.13
4MG	Mitchel Gardens	QN	4MG488	13	-	-	-	0.94	0.76	1.70
4RH	Orchard	CN	4RH309	13	3.12	3.28	6.39	0.51	2.17	2.68
4RH	Orchard	CN	4RH317	13	4.88	12.18	17.06	0.09	6.07	6.16
4RH	Orchard	CN	4RH318	13	3.59	6.01	9.59	0.08	4.15	4.24
4RH	Orchard	CN	4RH319	13	0.52	0.26	0.79	0.08	0.12	0.20
4RH	Orchard	CN	4RH321	13	3.74	11.00	14.74	0.03	5.55	5.58
4RH	Orchard	CN	4RH322	13	4.22	5.32	9.54	0.02	1.80	1.82
4S	Stewart Manor	QN	4S131	4	2.02	2.22	4.24	0.13	0.08	0.21
4S	Stewart Manor	QN	4S132	4	-	1.41	1.41	0.63	1.79	2.42
4S	Stewart Manor	QN	4S134	4	0.39	0.59	0.98	0.05	0.02	0.07
4S	Stewart Manor	QN	4S305	4	1.22	2.49	3.71	0.20	0.93	1.13
4S	Stewart Manor	QN	4S306	4	0.11	1.09	1.19	0.10	0.14	0.24
4S	Stewart Manor	QN	4S307	4	1.08	2.19	3.27	1.18	1.42	2.60
4UH	New Cassel	CN	4UH328	13	2.95	7.01	9.96	0.02	0.26	0.28
4UH	New Cassel	CN	4UH329	13	1.51	-	1.51	0.46	-	0.46
4UH	New Cassel	CN	4UH331	13	2.05	2.70	4.75	0.04	0.34	0.38
4UH	New Cassel	CN	4UH332	13	2.96	6.63	9.58	1.48	9.52	11.00
4UH	New Cassel	CN	4UH333	13	2.95	5.61	8.56	0.19	1.13	1.32
4UH	New Cassel	CN	4UH338	13	0.98	1.80	2.78	0.10	0.68	0.78

4UH	New Cassel	CN	4UH366	13	-	-	-	1.44	-	1.44
4UH	New Cassel	CN	4UH367	13	2.58	3.21	5.78	0.05	0.46	0.51
4UH	New Cassel	CN	4UH368	13	1.51	2.43	3.94	0.02	0.73	0.75
4UH	New Cassel	CN	4UH369	13	2.72	4.25	6.97	0.09	0.20	0.29
4W	Roosevelt	QN	4W234	4	1.49	0.66	2.16	0.09	0.12	0.21
4W	Roosevelt	QN	4W235	4	2.29	5.29	7.59	0.06	0.08	0.13
4W	Roosevelt	QN	4W236	4	0.93	1.70	2.62	0.08	0.33	0.41
4X	Bar Beach	CN	4X3P1	13	1.17	0.82	1.99	0.46	4.75	5.21
4X	Bar Beach	CN	4X3P2	13	-	-	-	1.06	2.73	3.79
4X	Bar Beach	CN	4X3P3	13	5.20	18.59	23.80	0.26	1.78	2.04
4X	Bar Beach	CN	4X3P4	13	4.84	9.28	14.12	0.29	5.54	5.83
4X	Bar Beach	CN	4X6P2	13	1.85	7.89	9.74	1.51	0.22	1.73
4X	Bar Beach	CN	4X6P3	13	0.01	-	0.01	1.80	3.75	5.55
5B	Locust Grove	CN	5B211	13	3.18	6.79	9.97	0.73	6.02	6.75
5B	Locust Grove	CN	5B212	13	3.82	11.95	15.77	0.11	0.59	0.70
5B	Locust Grove	CN	5B213	13	1.41	0.24	1.64	0.03	1.02	1.05
5B	Locust Grove	CN	5B214	13	2.43	1.22	3.65	0.14	3.79	3.93
5B	Locust Grove	CN	5B215	13	-	-	-	2.76	-	2.76
5B	Locust Grove	CN	5B219	13	2.21	7.29	9.50	0.76	0.80	1.57
5B	Locust Grove	CN	5B342	13	-	-	-	4.33	0.17	4.50
5B	Locust Grove	CN	5B371	13	-	-	-	1.37	-	1.37
5B	Locust Grove	CN	5B372	13	2.37	8.50	10.88	0.03	5.16	5.19
5B	Locust Grove	CN	5B373	13	2.77	5.51	8.28	2.04	4.60	6.65
5B	Locust Grove	CN	5B374	13	7.29	11.65	18.94	0.09	12.81	12.90
5B	Locust Grove	CN	5B375	13	3.55	11.71	15.26	0.89	1.04	1.93
5B	Locust Grove	CN	5B376	13	2.21	9.88	12.09	0.85	0.32	1.16
5D	Levittown	CN	5D058	13	3.26	10.92	14.18	0.08	2.52	2.60
5D	Levittown	CN	5D084	13	1.61	1.68	3.29	0.20	2.07	2.27
5D	Levittown	CN	5D209	13	2.92	9.43	12.35	0.09	0.78	0.87
5D	Levittown	CN	5D278	13	3.76	15.74	19.50	0.02	0.46	0.49
5D	Levittown	CN	5D279	13	2.28	4.81	7.10	0.07	0.54	0.61
5D	Levittown	CN	5D281	13	1.62	5.69	7.31	0.08	0.07	0.15
5E	Grumman Bethpage	CN	5E15E	13	-	-	-	1.94	0.27	2.20
5E	Grumman Bethpage	CN	5E17E	13	-	-	-	2.95	0.34	3.29
5E	Grumman Bethpage	CN	5E22E	13	-	-	-	0.35	0.04	0.40
5E	Grumman Bethpage	CN	5E24E	13	-	-	-	0.04	-	0.04
5E	Grumman Bethpage	CN	5E25E	13	-	-	-	0.14	0.02	0.15
5E	Grumman Bethpage	CN	5E26E	13	-	-	-	1.24	0.11	1.35
5E	Grumman Bethpage	CN	5E27E	13	-	-	-	0.70	0.05	0.74
5E	Grumman Bethpage	CN	5E34E	13	-	-	-	0.46	0.05	0.51
5E	Grumman Bethpage	CN	5E35E	13	-	-	-	1.45	0.22	1.67
5E	Grumman Bethpage	CN	5E36E	13	-	-	-	0.08	-	0.08
5E	Grumman Bethpage	CN	5E37E	13	-	-	-	0.13	0.00	0.13
5E	Grumman Bethpage	CN	5E38E	13	-	-	-	2.36	0.26	2.62
5E	Grumman Bethpage	CN	5E39E	13	-	-	-	1.66	0.11	1.77
5E	Grumman Bethpage	CN	5E44E	13	-	-	-	0.80	1.89	2.69
5E	Grumman Bethpage	CN	5E45E	13	-	-	-	1.27	-	1.27
5E	Grumman Bethpage	CN	5E46E	13	-	-	-	0.54	-	0.54
5E	Grumman Bethpage	CN	5E47E	13	-	-	-	1.46	0.31	1.77
5E	Grumman Bethpage	CN	5E48E	13	-	-	-	0.23	0.01	0.23
5E	Grumman Bethpage	CN	5E49E	13	-	-	-	0.22	0.00	0.23
5G	Plainedge	CN	5G109	13	2.09	9.80	11.89	0.11	0.19	0.31
5G	Plainedge	CN	5G111	13	2.84	13.63	16.48	0.29	1.29	1.58

5G	Plainedge	CN	5G112	13	4.06	11.83	15.89	0.08	0.14	0.22
5G	Plainedge	CN	5G171	13	1.39	8.50	9.89	0.15	0.52	0.67
5G	Plainedge	CN	5G172	13	2.43	5.71	8.14	0.28	0.91	1.19
5G	Plainedge	CN	5G173	13	3.98	12.02	16.00	0.20	1.34	1.54
5GK	Locust Valley	CN	5GK221	13	4.57	6.31	10.88	0.01	2.20	2.21
5GK	Locust Valley	CN	5GK222	13	4.78	12.58	17.35	0.02	7.19	7.21
5GK	Locust Valley	CN	5GK223	13	5.61	5.67	11.28	0.30	1.98	2.28
5GK	Locust Valley	CN	5GK224	13	4.97	3.83	8.80	0.04	4.68	4.72
5GK	Locust Valley	CN	5GK225	13	7.65	12.33	19.99	1.74	15.07	16.81
5GK	Locust Valley	CN	5GK4K6	13	4.85	13.42	18.28	0.47	9.37	9.83
5H	Oyster Bay	CN	5H071	13	3.64	6.81	10.45	0.39	0.64	1.03
5H	Oyster Bay	CN	5H074	13	7.32	8.81	16.13	0.05	11.39	11.44
5H	Oyster Bay	CN	5H075	13	2.62	5.71	8.33	0.07	1.90	1.97
5H	Oyster Bay	CN	5H076	13	4.70	8.99	13.69	0.07	7.45	7.52
5H	Oyster Bay	CN	5H077	13	3.74	20.13	23.87	1.09	6.04	7.13
5H	Oyster Bay	CN	5H078	13	3.25	2.45	5.69	0.21	8.34	8.55
5H	Oyster Bay	CN	5H079	13	4.54	28.48	33.03	0.06	10.57	10.63
5K	Syosset	CN	5K006	13	-	-	-	3.39	-	3.39
5K	Syosset	CN	5K009	13	8.12	16.45	24.57	0.11	13.14	13.26
5K	Syosset	CN	5K010	13	4.12	8.61	12.72	0.19	9.73	9.91
5K	Syosset	CN	5K011	13	2.19	1.43	3.62	0.15	6.16	6.31
5K	Syosset	CN	5K141	13	4.07	10.53	14.60	0.07	9.49	9.55
5K	Syosset	CN	5K142	13	-	-	-	0.22	-	0.22
5K	Syosset	CN	5K143	13	1.71	0.43	2.14	0.10	2.85	2.96
5K	Syosset	CN	5K144	13	3.32	9.81	13.14	0.29	5.78	6.08
5L	Woodbury	CN	5L349	13	1.30	1.18	2.49	0.11	6.81	6.92
5L	Woodbury	CN	5L351	13	1.67	1.16	2.83	0.22	5.13	5.35
5L	Woodbury	CN	5L352	13	1.13	0.63	1.76	0.03	0.32	0.35
5L	Woodbury	CN	5L6H1	13	0.69	0.80	1.49	1.06	1.44	2.49
5L	Woodbury	CN	5L6H2	13	1.42	3.18	4.60	0.55	0.79	1.35
5L	Woodbury	CN	5L6H3	13	2.00	4.47	6.47	0.03	0.13	0.16
5M	Newbridge Rd	CN	5M085	13	2.82	6.72	9.54	0.36	0.74	1.11
5M	Newbridge Rd	CN	5M087	13	3.22	14.31	17.53	0.08	0.40	0.48
5M	Newbridge Rd	CN	5M088	13	3.95	8.60	12.55	0.06	1.02	1.08
5M	Newbridge Rd	CN	5M089	13	3.33	6.69	10.02	0.13	0.72	0.85
5M	Newbridge Rd	CN	5M101	13	4.43	11.21	15.64	0.08	1.00	1.08
5M	Newbridge Rd	CN	5M102	13	4.92	14.72	19.64	0.17	0.76	0.93
5M	Newbridge Rd	CN	5M103	13	3.22	5.71	8.93	0.19	1.28	1.47
5M	Newbridge Rd	CN	5M104	13	3.47	8.49	11.96	0.48	0.41	0.90
5M	Newbridge Rd	CN	5M105	13	4.23	9.12	13.36	0.09	1.05	1.13
5M	Newbridge Rd	CN	5M106	13	3.98	15.61	19.60	0.56	0.20	0.76
5M	Newbridge Rd	CN	5M107	13	4.12	17.09	21.21	0.40	1.75	2.15
5M	Newbridge Rd	CN	5M108	13	3.02	11.02	14.04	0.17	0.40	0.57
5M	Newbridge Rd	CN	5M5N4	13	-	-	-	0.68	0.19	0.87
5MK	Jericho	CN	5MK242	13	2.35	3.71	6.06	0.30	0.86	1.16
5MK	Jericho	CN	5MK243	13	2.47	4.04	6.51	0.29	0.72	1.01
5MK	Jericho	CN	5MK244	13	2.94	4.39	7.33	0.10	1.03	1.12
5MK	Jericho	CN	5MK245	13	1.93	8.81	10.75	0.90	1.18	2.08
5MK	Jericho	CN	5MK248	13	2.68	2.37	5.05	0.41	1.00	1.42
5MK	Jericho	CN	5MK249	13	-	-	-	1.02	0.14	1.17
5MK	Jericho	CN	5MK308	13	1.22	-	1.22	0.04	-	0.04
5MK	Jericho	CN	5MK315	13	2.38	1.71	4.08	0.17	1.75	1.92
5MK	Jericho	CN	5MK316	13	1.47	4.73	6.20	0.30	1.88	2.17

5R	Bellmore	CN	5R024	13	5.09	11.57	16.66	0.34	0.32	0.66
5R	Bellmore	CN	5R026	13	2.84	5.25	8.09	0.20	0.26	0.46
5R	Bellmore	CN	5R027	13	3.11	9.05	12.16	0.12	0.56	0.67
5R	Bellmore	CN	5R159	13	1.91	-	1.91	0.50	-	0.50
5R	Bellmore	CN	5R165	13	6.10	10.82	16.93	2.03	3.79	5.82
5R	Bellmore	CN	5R166	13	2.79	9.23	12.01	0.15	0.15	0.30
5R	Bellmore	CN	5R167	13	2.03	2.40	4.43	0.11	0.20	0.30
5R	Bellmore	CN	5R168	13	-	-	-	0.34	-	0.34
5R	Bellmore	CN	5R169	13	3.53	10.39	13.91	0.09	0.21	0.30
5R	Bellmore	CN	5R1N1	13	2.32	6.15	8.47	0.13	0.68	0.81
5R	Bellmore	CN	5R1N2	13	2.92	5.61	8.53	0.62	1.34	1.97
5R	Bellmore	CN	5R391	13	2.61	7.66	10.28	0.29	0.20	0.49
5R	Bellmore	CN	5R392	13	3.50	7.90	11.39	0.08	3.22	3.30
5R	Bellmore	CN	5R393	13	3.02	4.57	7.59	17.48	10.51	27.99
5R	Bellmore	CN	5R394	13	2.16	4.33	6.49	0.23	4.67	4.91
5R	Bellmore	CN	5R5N8	13	3.92	7.82	11.73	1.28	0.73	2.01
5RK	North Bellmore	CN	5RK261	13	6.01	16.93	22.95	0.02	0.97	0.99
5RK	North Bellmore	CN	5RK262	13	3.63	13.06	16.69	0.08	0.90	0.98
5RK	North Bellmore	CN	5RK263	13	5.56	10.73	16.29	0.08	1.34	1.43
5RK	North Bellmore	CN	5RK264	13	4.64	11.91	16.54	0.06	0.97	1.03
5RK	North Bellmore	CN	5RK265	13	2.16	11.56	13.72	0.09	0.30	0.39
5RK	North Bellmore	CN	5RK266	13	3.31	9.09	12.40	0.02	0.83	0.85
5SK	Plainview	CN	5SK060	13	2.07	7.39	9.47	0.05	1.00	1.05
5SK	Plainview	CN	5SK061	13	3.39	6.08	9.46	0.09	1.91	2.00
5SK	Plainview	CN	5SK062	13	3.27	11.54	14.81	0.12	1.37	1.49
5SK	Plainview	CN	5SK063	13	1.03	6.29	7.32	0.49	0.53	1.01
5SK	Plainview	CN	5SK1N4	13	2.09	4.42	6.52	3.48	1.77	5.25
5SK	Plainview	CN	5SK1N5	13	2.30	5.37	7.67	1.09	1.47	2.55
5SK	Plainview	CN	5SK1N6	13	3.65	13.04	16.69	0.32	0.36	0.68
5SK	Plainview	CN	5SK345	13	2.85	7.45	10.30	0.04	0.83	0.87
5SK	Plainview	CN	5SK346	13	1.08	2.26	3.35	0.52	1.62	2.13
5SK	Plainview	CN	5SK347	13	1.59	1.93	3.52	0.39	0.86	1.25
5U	Massapequa	CN	5U097	13	4.56	13.45	18.00	0.01	1.02	1.03
5U	Massapequa	CN	5U098	13	1.39	-	1.39	0.19	-	0.19
5U	Massapequa	CN	5U099	13	3.78	10.06	13.83	0.24	0.26	0.49
5U	Massapequa	CN	5U217	13	4.37	10.88	15.25	0.07	0.40	0.48
5U	Massapequa	CN	5U218	13	3.57	12.01	15.58	0.22	0.47	0.69
5U	Massapequa	CN	5U274	13	1.34	-	1.34	0.11	-	0.11
5U	Massapequa	CN	5U275	13	2.35	1.86	4.21	0.15	0.09	0.23
5U	Massapequa	CN	5U276	13	2.84	10.59	13.43	0.13	0.12	0.25
5U	Massapequa	CN	5U282	13	1.58	8.71	10.29	0.26	0.24	0.49
5U	Massapequa	CN	5U283	13	3.41	14.95	18.36	0.13	0.31	0.44
5U	Massapequa	CN	5U8K4	13	2.39	7.87	10.25	0.45	0.49	0.93
5U	Massapequa	CN	5U8K5	13	3.23	12.43	15.66	0.42	0.34	0.75
5U	Massapequa	CN	5U8K6	13	1.79	11.44	13.23	0.17	2.00	2.17
5U	Massapequa	CN	5U8K7	13	2.23	10.53	12.75	0.17	0.13	0.30
5X	New South Rd.	CN	5X247	13	3.31	3.19	6.50	0.22	0.92	1.14
5X	New South Rd.	CN	5X258	13	0.03	0.19	0.22	0.34	0.53	0.88
5X	New South Rd.	CN	5X267	13	3.96	6.88	10.84	0.14	1.13	1.27
5X	New South Rd.	CN	5X268	13	2.24	4.42	6.65	0.24	1.10	1.34
5X	New South Rd.	CN	5X269	13	1.61	1.76	3.37	0.34	1.16	1.50
5X	New South Rd.	CN	5X271	13	2.72	7.17	9.89	0.28	0.78	1.07
5X	New South Rd.	CN	5X272	13	-	-	-	0.50	0.85	1.35

5X	New South Rd.	CN	5X273	13	2.81	15.71	18.53	0.19	0.27	0.47
5X	New South Rd.	CN	5X294	13	-	-	-	0.49	0.80	1.29
5X	New South Rd.	CN	5X404	13	-	-	-	2.01	-	2.01
5X	New South Rd.	CN	5X408	13	-	-	-	2.02	-	2.02
6B	Halesite	WS	6B2P7	13	4.10	5.42	9.52	0.03	0.50	0.53
6B	Halesite	WS	6B2P8	13	1.75	5.91	7.66	0.12	0.88	1.00
6B	Halesite	WS	6B2P9	13	2.95	5.23	8.19	0.08	0.90	0.99
6BL	Bethpage	CN	6BL126	13	2.78	11.48	14.25	0.20	0.69	0.89
6BL	Bethpage	CN	6BL127	13	1.08	0.46	1.54	0.17	0.77	0.94
6BL	Bethpage	CN	6BL128	13	1.41	8.49	9.89	0.08	0.60	0.68
6BL	Bethpage	CN	6BL129	13	2.43	6.78	9.20	0.12	1.01	1.12
6BL	Bethpage	CN	6BL241	13	2.03	2.31	4.34	0.22	0.73	0.96
6BL	Bethpage	CN	6BL259	13	5.47	8.54	14.02	0.12	5.68	5.80
6BL	Bethpage	CN	6BL348	13	-	-	-	1.47	-	1.47
6BL	Bethpage	CN	6BL379	13	-	-	-	0.04	-	0.04
6BR	Bagatelle Rd	WS	6BR2N1	13	2.75	1.46	4.21	1.55	17.54	19.09
6BR	Bagatelle Rd	WS	6BR2N2	13	3.05	3.46	6.52	2.28	20.85	23.13
6BR	Bagatelle Rd	WS	6BR2N3	13	6.69	20.01	26.69	0.38	2.26	2.65
6BR	Bagatelle Rd	WS	6BR2N5	13	3.99	11.88	15.87	0.02	10.55	10.57
6BR	Bagatelle Rd	WS	6BR2N8	13	4.24	11.61	15.84	0.01	8.02	8.04
6D	Smithtown	WS	6D614	13	2.51	9.48	11.99	0.71	6.37	7.09
6D	Smithtown	WS	6D615	13	4.27	13.30	17.58	0.16	1.57	1.73
6D	Smithtown	WS	6D634	13	4.52	16.28	20.80	0.05	6.08	6.13
6D	Smithtown	WS	6D635	13	5.40	20.74	26.14	0.08	16.21	16.29
6D	Smithtown	WS	6D636	13	2.82	6.72	9.54	2.37	3.50	5.87
6D	Smithtown	WS	6D637	13	4.25	12.67	16.93	0.51	1.11	1.62
6DL	Pilgrim	WS	6DL837	13	1.52	9.21	10.74	0.38	2.05	2.43
6DL	Pilgrim	WS	6DL838	13	2.31	1.37	3.68	0.58	13.99	14.57
6DL	Pilgrim	WS	6DL839	13	2.22	5.53	7.75	0.14	3.97	4.10
6DL	Pilgrim	WS	6DL841	13	4.24	9.19	13.43	0.13	1.77	1.91
6DL	Pilgrim	WS	6DL842	13	3.66	7.15	10.82	1.30	3.59	4.89
6DL	Pilgrim	WS	6DL843	13	3.15	16.39	19.54	0.44	4.33	4.77
6DL	Pilgrim	WS	6DL844	13	2.43	4.61	7.04	2.81	1.71	4.52
6GL	Huntington Village	WS	6GL747	4	1.10	0.23	1.33	0.05	0.25	0.30
6GL	Huntington Village	WS	6GL748	4	0.00	0.00	0.01	0.09	0.36	0.45
6GL	Huntington Village	WS	6GL749	4	0.29	0.03	0.32	0.02	0.51	0.53
6GL	Huntington Village	WS	6GL769	4	0.13	0.00	0.13	0.12	0.76	0.88
6H	Hauppauge	WS	6H2H5	13	-	-	-	1.56	4.54	6.10
6H	Hauppauge	WS	6H2H6	13	-	-	-	2.50	3.49	5.98
6H	Hauppauge	WS	6H2H7	13	-	-	-	1.24	2.88	4.12
6H	Hauppauge	WS	6H503	13	0.00	-	0.00	2.74	4.67	7.40
6H	Hauppauge	WS	6H504	13	2.83	1.33	4.16	1.48	3.96	5.44
6H	Hauppauge	WS	6H505	13	0.00	-	0.00	1.12	3.92	5.04
6H	Hauppauge	WS	6H506	13	-	-	-	2.89	3.52	6.41
6H	Hauppauge	WS	6H533	13	0.76	0.80	1.56	0.98	3.67	4.65
6H	Hauppauge	WS	6H539	13	-	-	-	1.12	3.61	4.73
6H	Hauppauge	WS	6H541	13	0.80	0.16	0.96	1.00	2.70	3.70
6H	Hauppauge	WS	6H542	13	-	-	-	2.40	3.57	5.97
6H	Hauppauge	WS	6H543	13	0.26	0.18	0.44	1.48	3.33	4.81
6HL	Indian Head	WS	6HL811	13	5.49	7.47	12.96	0.07	8.25	8.32
6HL	Indian Head	WS	6HL812	13	3.98	17.10	21.08	1.61	2.66	4.28
6HL	Indian Head	WS	6HL813	13	3.45	13.61	17.07	0.98	7.35	8.34
6HL	Indian Head	WS	6HL814	13	5.45	12.12	17.57	0.39	9.20	9.59

6HL	Indian Head	WS	6HL815	13	2.81	9.96	12.77	0.24	6.95	7.19
6HL	Indian Head	WS	6HL816	13	3.92	9.67	13.59	0.14	7.10	7.24
6J	Commack	WS	6J1P1	13	3.93	13.18	17.11	0.54	10.77	11.31
6J	Commack	WS	6J1P2	13	3.85	11.94	15.79	0.55	2.81	3.36
6J	Commack	WS	6J1P3	13	3.10	11.46	14.57	0.15	2.54	2.70
6J	Commack	WS	6J896	13	2.49	5.11	7.60	0.52	1.82	2.34
6J	Commack	WS	6J897	13	4.56	5.71	10.28	0.44	10.45	10.89
6J	Commack	WS	6J898	13	4.55	10.52	15.07	0.34	2.61	2.96
6K	State School	WS	6K446	13	4.57	1.31	5.89	0.48	8.11	8.58
6K	State School	WS	6K447	13	1.24	1.42	2.66	0.80	0.47	1.27
6K	State School	WS	6K448	13	1.80	3.27	5.07	1.35	4.74	6.09
6K	State School	WS	6K9P2	13	-	-	-	2.69	0.00	2.69
6K	State School	WS	6K9P3	13	1.78	1.21	2.99	0.88	8.34	9.21
6K	State School	WS	6K9P4	13	2.25	3.46	5.71	3.47	15.89	19.36
6K	State School	WS	6K9P5	13	0.10	0.08	0.19	3.72	12.68	16.40
6KL	Flowerfield	WS	6KL849	13	5.16	20.39	25.54	0.08	10.22	10.30
6KL	Flowerfield	WS	6KL851	13	1.21	5.09	6.30	0.10	6.16	6.26
6L	Nesconset	WS	6L4H5	13	4.44	12.77	17.22	0.36	5.65	6.01
6L	Nesconset	WS	6L4H6	13	3.78	9.75	13.52	0.30	5.21	5.51
6L	Nesconset	WS	6L4H7	13	3.76	13.16	16.92	0.42	4.66	5.08
6L	Nesconset	WS	6L4H8	13	2.94	5.69	8.63	1.17	7.03	8.20
6L	Nesconset	WS	6L964	13	1.87	2.49	4.36	0.09	7.08	7.18
6L	Nesconset	WS	6L965	13	3.03	6.50	9.53	1.68	8.80	10.48
6L	Nesconset	WS	6L966	13	1.35	2.36	3.71	0.22	2.98	3.20
6L	Nesconset	WS	6L967	13	3.92	6.16	10.08	0.30	8.72	9.02
6L	Nesconset	WS	6L968	13	5.47	9.26	14.73	0.05	9.12	9.17
6L	Nesconset	WS	6L969	13	3.32	4.40	7.72	2.36	11.82	14.18
6P	Pulaski	WS	6P5H1	13	4.57	10.21	14.79	0.14	5.96	6.10
6P	Pulaski	WS	6P5H2	13	5.77	9.60	15.37	0.86	13.50	14.36
6P	Pulaski	WS	6P5H4	13	4.91	13.43	18.34	0.44	6.39	6.83
6P	Pulaski	WS	6P5H5	13	5.07	5.76	10.83	0.08	5.14	5.22
6P	Pulaski	WS	6P5H6	13	5.24	11.64	16.89	0.37	11.41	11.78
6P	Pulaski	WS	6P5H7	13	4.16	7.24	11.40	0.35	6.00	6.35
6Q	Oakwood	WS	6Q4K7	13	4.38	12.00	16.37	0.46	6.43	6.89
6Q	Oakwood	WS	6Q4K8	13	3.36	5.84	9.19	0.26	0.65	0.91
6Q	Oakwood	WS	6Q4K9	13	4.75	8.82	13.56	0.73	3.07	3.80
6Q	Oakwood	WS	6Q665	13	4.88	7.78	12.66	0.17	0.58	0.75
6Q	Oakwood	WS	6Q666	13	6.64	12.08	18.73	0.47	6.03	6.49
6Q	Oakwood	WS	6Q667	13	6.73	16.23	22.96	0.18	2.52	2.71
6Q	Oakwood	WS	6Q668	13	-	-	-	0.90	0.26	1.16
6Q	Oakwood	WS	6Q669	13	-	0.26	0.26	1.38	0.00	1.38
6Q	Oakwood	WS	6Q671	13	3.08	8.14	11.21	0.10	1.51	1.62
6Q	Oakwood	WS	6Q672	13	6.18	6.70	12.88	0.19	1.73	1.92
6Q	Oakwood	WS	6Q673	13	3.70	4.54	8.25	0.73	1.20	1.94
6Q	Oakwood	WS	6Q675	13	4.03	4.41	8.44	0.26	0.63	0.89
6RL	Elwood	WS	6RL765	13	3.67	12.26	15.94	0.40	2.63	3.03
6RL	Elwood	WS	6RL766	13	4.28	23.14	27.41	0.14	11.36	11.51
6RL	Elwood	WS	6RL768	13	8.78	9.97	18.75	0.05	4.32	4.37
6RL	Elwood	WS	6RL954	13	4.76	6.23	10.98	0.54	8.59	9.13
6RL	Elwood	WS	6RL955	13	5.17	15.07	20.25	0.18	1.13	1.31
6RL	Elwood	WS	6RL956	13	3.36	8.85	12.21	0.20	1.57	1.77
6U	Ruland Rd.	WS	6U601	13	1.91	0.40	2.31	1.09	1.37	2.46
6U	Ruland Rd.	WS	6U602	13	0.76	0.13	0.89	0.49	0.09	0.58

6U	Ruland Rd.	WS	6U603	13	1.63	0.85	2.48	1.44	1.25	2.69
6U	Ruland Rd.	WS	6U604	13	2.33	0.36	2.69	1.96	1.02	2.99
6U	Ruland Rd.	WS	6U605	13	1.46	0.53	1.99	1.45	1.45	2.90
6U	Ruland Rd.	WS	6U606	13	1.43	1.26	2.68	0.58	5.31	5.89
6U	Ruland Rd.	WS	6U607	13	-	-	-	1.09	0.48	1.57
6U	Ruland Rd.	WS	6U609	13	-	-	-	1.83	0.14	1.96
6U	Ruland Rd.	WS	6U613	13	-	-	-	0.78	0.00	0.78
6U	Ruland Rd.	WS	6U622	13	-	-	-	2.72	0.39	3.11
6U	Ruland Rd.	WS	6U643	13	-	-	-	4.23	-	4.23
6U	Ruland Rd.	WS	6U692	13	0.65	0.05	0.70	2.12	3.25	5.37
6U	Ruland Rd.	WS	6U695	13	1.25	1.51	2.76	1.09	1.60	2.70
6U	Ruland Rd.	WS	6U696	13	1.42	2.01	3.43	1.05	1.46	2.51
6U	Ruland Rd.	WS	6U875	13	2.44	1.41	3.85	0.50	5.18	5.68
6U	Ruland Rd.	WS	6U876	13	1.13	0.97	2.10	0.15	3.73	3.88
6U	Ruland Rd.	WS	6U877	13	2.43	0.23	2.66	0.84	2.03	2.87
6U	Ruland Rd.	WS	6U886	13	-	-	-	3.52	-	3.52
6U	Ruland Rd.	WS	6U948	13	-	-	-	1.52	0.00	1.52
6UL	Greenlawn	WS	6UL4K2	13	2.95	5.93	8.89	0.98	2.11	3.09
6UL	Greenlawn	WS	6UL4K3	13	4.42	12.08	16.49	0.54	1.38	1.92
6UL	Greenlawn	WS	6UL4K4	13	3.80	17.46	21.26	1.22	4.18	5.40
6UL	Greenlawn	WS	6UL848	13	2.87	5.10	7.97	0.40	2.47	2.86
6UL	Greenlawn	WS	6UL854	13	-	-	-	1.31	-	1.31
6UL	Greenlawn	WS	6UL855	13	4.04	5.93	9.97	0.24	5.18	5.42
6UL	Greenlawn	WS	6UL856	13	4.27	12.15	16.42	0.24	2.84	3.08
6UL	Greenlawn	WS	6UL857	13	6.06	17.42	23.48	0.27	5.21	5.48
6UL	Greenlawn	WS	6UL873	13	4.35	14.39	18.74	0.27	4.50	4.77
6UL	Greenlawn	WS	6UL874	13	7.54	8.87	16.41	0.85	5.55	6.40
6W	Wolf Hill	WS	6W801	13	4.53	12.19	16.73	0.02	3.36	3.38
6W	Wolf Hill	WS	6W802	13	3.62	4.25	7.87	0.01	2.50	2.51
6W	Wolf Hill	WS	6W803	13	6.22	11.91	18.13	0.06	5.98	6.04
6W	Wolf Hill	WS	6W804	13	6.15	7.95	14.10	0.06	11.02	11.08
6W	Wolf Hill	WS	6W805	13	2.53	5.06	7.59	0.17	1.70	1.87
6W	Wolf Hill	WS	6W806	13	3.76	5.23	8.99	0.13	1.55	1.68
6X	West Neck	WS	6X1P6	13	2.60	13.21	15.81	0.09	1.68	1.76
6X	West Neck	WS	6X1P7	13	4.29	5.96	10.25	0.49	7.21	7.70
6X	West Neck	WS	6X799	13	3.91	12.32	16.23	1.18	7.31	8.49
7AM	Fair Harbor	WS	7AM629	4	0.69	1.39	2.08	0.01	0.32	0.33
7AM	Fair Harbor	WS	7AM676	4	0.68	2.57	3.25	0.19	0.41	0.60
7B	Brentwood	WS	7B1P8	13	0.58	0.01	0.60	0.05	0.16	0.21
7B	Brentwood	WS	7B2H2	13	0.19	-	0.19	2.13	2.45	4.58
7B	Brentwood	WS	7B2H3	13	4.70	5.93	10.63	0.10	9.56	9.66
7B	Brentwood	WS	7B2H4	13	2.68	0.28	2.96	6.43	3.12	9.55
7B	Brentwood	WS	7B697	13	-	-	-	3.87	-	3.87
7B	Brentwood	WS	7B698	13	3.13	0.40	3.53	2.22	1.32	3.54
7B	Brentwood	WS	7B699	13	0.17	-	0.17	6.50	1.12	7.62
7B	Brentwood	WS	7B701	13	5.76	7.36	13.12	0.16	4.60	4.76
7B	Brentwood	WS	7B702	13	4.16	7.78	11.93	0.15	12.48	12.63
7B	Brentwood	WS	7B703	13	1.98	0.06	2.04	1.30	5.23	6.53
7B	Brentwood	WS	7B704	13	5.76	7.84	13.60	0.06	1.70	1.75
7BH	Bohemia	WS	7BH3K5	13	5.88	6.00	11.88	0.18	3.13	3.31
7BH	Bohemia	WS	7BH3K6	13	2.14	4.19	6.33	2.75	1.50	4.25
7BH	Bohemia	WS	7BH3K8	13	1.76	0.85	2.60	2.06	3.21	5.27
7BH	Bohemia	WS	7BH3K9	13	1.41	6.20	7.60	4.16	0.63	4.79

7D	West Babylon	WS	7D681	13	4.15	13.81	17.96	0.03	1.92	1.95
7D	West Babylon	WS	7D682	13	1.40	-	1.40	0.20	-	0.20
7D	West Babylon	WS	7D683	13	1.46	-	1.46	0.10	-	0.10
7D	West Babylon	WS	7D686	13	3.37	8.72	12.09	0.03	1.58	1.61
7D	West Babylon	WS	7D687	13	4.54	10.77	15.31	0.14	0.09	0.24
7D	West Babylon	WS	7D688	13	2.95	2.04	4.99	0.13	0.55	0.68
7D	West Babylon	WS	7D689	13	4.45	9.23	13.68	0.11	1.49	1.60
7D	West Babylon	WS	7D808	13	2.67	5.38	8.06	0.13	0.93	1.05
7D	West Babylon	WS	7D8K1	13	4.85	12.09	16.94	1.02	0.66	1.68
7D	West Babylon	WS	7D8K2	13	2.41	10.82	13.22	0.52	0.29	0.81
7D	West Babylon	WS	7D9H7	13	2.16	10.94	13.10	0.65	2.42	3.08
7D	West Babylon	WS	7D9H8	13	1.85	2.65	4.50	1.45	2.63	4.09
7D	West Babylon	WS	7D9H9	13	2.81	3.96	6.77	0.17	2.97	3.14
7DM	Central Islip	WS	7DM564	13	4.16	11.41	15.57	0.44	2.59	3.03
7DM	Central Islip	WS	7DM565	13	2.77	2.27	5.04	0.80	4.05	4.84
7DM	Central Islip	WS	7DM566	13	-	-	-	1.38	-	1.38
7DM	Central Islip	WS	7DM567	13	-	-	-	1.50	-	1.50
7DM	Central Islip	WS	7DM568	13	3.93	14.44	18.37	2.28	7.88	10.16
7DM	Central Islip	WS	7DM569	13	2.87	1.64	4.51	3.45	4.15	7.60
7DM	Central Islip	WS	7DM785	13	-	-	-	3.52	-	3.52
7DM	Central Islip	WS	7DM786	13	4.33	10.34	14.67	0.40	4.36	4.76
7DM	Central Islip	WS	7DM787	13	5.10	7.49	12.59	1.50	5.12	6.62
7DM	Central Islip	WS	7DM788	13	3.48	10.10	13.57	0.92	3.79	4.72
7DM	Central Islip	WS	7DM789	13	4.57	7.26	11.83	0.23	12.84	13.07
7DM	Central Islip	WS	7DM793	13	3.55	10.71	14.26	0.30	2.14	2.44
7DM	Central Islip	WS	7DM794	13	3.85	4.39	8.23	1.13	5.85	6.97
7DM	Central Islip	WS	7DM795	13	-	-	-	2.30	-	2.30
7EM	Deer Park	WS	7EM7H1	13	0.94	0.29	1.22	0.78	1.84	2.62
7EM	Deer Park	WS	7EM7H2	13	3.80	12.61	16.41	0.36	2.05	2.41
7EM	Deer Park	WS	7EM7H3	13	3.88	10.58	14.47	0.44	0.97	1.41
7EM	Deer Park	WS	7EM817	13	4.49	11.82	16.31	0.03	1.22	1.25
7EM	Deer Park	WS	7EM818	13	6.27	13.48	19.75	0.04	1.89	1.93
7EM	Deer Park	WS	7EM819	13	3.24	5.44	8.68	1.02	4.92	5.94
7EM	Deer Park	WS	7EM821	13	1.66	0.82	2.49	0.48	0.82	1.30
7EM	Deer Park	WS	7EM822	13	3.62	2.84	6.46	0.11	0.76	0.87
7EM	Deer Park	WS	7EM823	13	4.68	16.58	21.26	0.07	1.53	1.60
7EM	Deer Park	WS	7EM888	13	-	-	-	2.25	-	2.25
7EM	Deer Park	WS	7EM889	13	-	-	-	1.89	-	1.89
7F	West Brentwood	WS	7F2P1	13	4.85	21.76	26.61	0.23	2.51	2.74
7F	West Brentwood	WS	7F2P2	13	4.07	6.87	10.94	0.25	2.73	2.98
7F	West Brentwood	WS	7F2P3	13	3.56	4.73	8.28	0.43	2.75	3.18
7F	West Brentwood	WS	7F608	13	-	-	-	-	0.58	0.58
7F	West Brentwood	WS	7F778	13	5.58	5.53	11.11	0.98	1.70	2.68
7F	West Brentwood	WS	7F779	13	3.65	14.09	17.74	0.25	2.51	2.76
7F	West Brentwood	WS	7F784	13	5.71	13.71	19.43	0.01	1.55	1.56
7H	Babylon	WS	7H869	13	3.49	14.84	18.32	0.07	3.11	3.18
7H	Babylon	WS	7H871	13	2.24	6.38	8.62	0.30	0.74	1.03
7H	Babylon	WS	7H872	13	4.27	15.54	19.81	0.19	3.13	3.32
7H	Babylon	WS	7H936	13	-	-	-	0.36	-	0.36
7H	Babylon	WS	7H993	13	0.53	-	0.53	0.43	-	0.43
7H	Babylon	WS	7H994	13	2.53	4.28	6.81	0.19	0.70	0.89
7H	Babylon	WS	7H995	13	3.60	6.99	10.59	0.24	0.90	1.14
7H	Babylon	WS	7H996	13	2.91	7.53	10.44	0.51	1.71	2.22

7HM	Fire Island Pines	WS	7HM130	13	-	-	-	4.17	7.14	11.31
7HM	Fire Island Pines	WS	7HM140	13	-	-	-	0.11	0.00	0.11
7HM	Fire Island Pines	WS	7HM639	4	1.05	2.86	3.91	0.25	0.14	0.38
7HM	Fire Island Pines	WS	7HM644	4	2.16	1.46	3.63	0.71	0.06	0.77
7J	Sterling	CN	7J858	13	4.63	10.50	15.13	0.23	2.33	2.56
7J	Sterling	CN	7J859	13	1.08	-	1.08	0.44	-	0.44
7J	Sterling	CN	7J861	13	4.45	12.45	16.90	0.18	1.39	1.57
7J	Sterling	CN	7J862	13	2.25	4.63	6.88	1.14	1.06	2.20
7J	Sterling	CN	7J863	13	0.59	0.01	0.60	1.16	0.22	1.39
7J	Sterling	CN	7J864	13	4.22	21.29	25.51	0.46	5.33	5.79
7J	Sterling	CN	7J865	13	-	-	-	1.26	0.00	1.26
7J	Sterling	CN	7J866	13	4.56	18.75	23.31	0.17	0.10	0.27
7J	Sterling	CN	7J867	13	0.28	-	0.28	0.34	-	0.34
7J	Sterling	CN	7J868	13	3.84	7.30	11.14	0.21	3.04	3.25
7J	Sterling	CN	7J883	13	5.16	5.43	10.60	0.07	4.11	4.18
7J	Sterling	CN	7J884	13	2.80	6.24	9.04	0.19	2.01	2.21
7J	Sterling	CN	7J887	13	3.53	8.05	11.59	0.24	1.90	2.14
7KM	Robert Moses	WS	7KM411	4	-	-	-	0.04	0.86	0.90
7KM	Robert Moses	WS	7KM719	4	0.59	3.60	4.19	2.20	0.27	2.47
7LM	Ocean Beach	WS	7LM633	4	0.56	1.70	2.26	0.02	-	0.02
7LM	Ocean Beach	WS	7LM638	4	2.32	2.72	5.04	0.88	1.96	2.84
7LM	Ocean Beach	WS	7LM718	4	1.42	1.92	3.34	0.25	0.23	0.48
7LM	Ocean Beach	WS	7LM9H4	4	0.34	2.06	2.40	0.02	0.04	0.06
7M	MacArthur	WS	7M751	13	-	-	-	5.98	2.16	8.14
7M	MacArthur	WS	7M752	13	4.99	6.48	11.47	1.25	5.75	7.00
7M	MacArthur	WS	7M753	13	3.04	0.77	3.82	0.77	4.88	5.65
7M	MacArthur	WS	7M754	13	3.20	5.39	8.59	2.12	3.30	5.41
7M	MacArthur	WS	7M755	13	1.36	1.03	2.39	2.62	3.39	6.01
7M	MacArthur	WS	7M756	13	3.49	1.22	4.71	1.35	17.74	19.09
7M	MacArthur	WS	7M758	13	-	-	-	1.96	0.00	1.96
7M	MacArthur	WS	7M9P6	13	2.38	6.92	9.30	3.25	14.97	18.22
7M	MacArthur	WS	7M9P7	13	1.42	0.26	1.68	0.73	2.94	3.67
7M	MacArthur	WS	7M9P8	13	1.88	0.65	2.53	3.76	2.89	6.65
7M	MacArthur	WS	7M9P9	13	2.70	1.31	4.01	1.43	6.51	7.95
7MM	Watson	WS	7MM845	13	3.65	13.75	17.40	0.43	1.88	2.30
7MM	Watson	WS	7MM846	13	5.67	6.63	12.30	0.59	1.23	1.82
7MM	Watson	WS	7MM847	13	5.19	8.24	13.43	0.28	3.17	3.45
7MM	Watson	WS	7MM879	13	3.43	10.32	13.75	0.06	1.70	1.76
7MM	Watson	WS	7MM881	13	2.79	6.44	9.24	0.33	3.65	3.98
7MM	Watson	WS	7MM882	13	4.50	9.71	14.21	0.39	1.68	2.07
7R	Sayville	WS	7R611	13	3.71	9.30	13.02	0.03	0.60	0.64
7R	Sayville	WS	7R612	13	2.84	2.40	5.24	0.12	3.56	3.68
7R	Sayville	WS	7R616	13	3.94	3.59	7.53	0.08	6.52	6.60
7R	Sayville	WS	7R921	13	2.95	5.34	8.29	0.10	0.62	0.72
7R	Sayville	WS	7R922	13	4.77	12.63	17.40	0.02	1.60	1.62
7RM	Bayport	WS	7RM1K6	13	4.50	19.70	24.20	0.28	4.05	4.33
7RM	Bayport	WS	7RM1K7	13	2.84	15.75	18.59	0.30	1.81	2.11
7RM	Bayport	WS	7RM5P3	13	2.47	2.48	4.94	1.03	4.46	5.50
7RM	Bayport	WS	7RM5P4	13	2.59	1.06	3.65	1.53	0.83	2.35
7S	Tech Park	WS	7S7P5	13	-	-	-	1.99	2.82	4.81
7S	Tech Park	WS	7S7P6	13	1.68	6.06	7.74	0.30	3.63	3.92
7S	Tech Park	WS	7S7P7	13	5.19	21.38	26.57	0.89	1.59	2.48
7S	Tech Park	WS	7S7P8	13	1.78	1.88	3.66	2.12	5.72	7.83

7S	Tech Park	WS	7S7P9	13	1.50	3.49	4.99	3.14	3.61	6.75
7S	Tech Park	WS	7S8H2	13	0.84	5.47	6.31	2.30	3.68	5.98
7T	Pinelawn	WS	7T904	13	4.87	4.79	9.66	0.08	1.52	1.59
7T	Pinelawn	WS	7T905	13	3.49	21.09	24.57	0.04	0.36	0.40
7T	Pinelawn	WS	7T926	13	4.81	17.95	22.76	0.10	0.44	0.55
7T	Pinelawn	WS	7T946	13	-	-	-	2.72	-	2.72
7T	Pinelawn	WS	7T981	13	4.82	11.12	15.94	0.67	1.51	2.18
7T	Pinelawn	WS	7T982	13	2.85	4.77	7.63	0.56	0.59	1.15
7T	Pinelawn	WS	7T983	13	2.80	10.74	13.53	1.52	0.66	2.18
7U	Captree	WS	7U460	4	-	3.19	3.19	0.82	4.16	4.99
7U	Captree	WS	7U771	4	-	0.58	0.58	0.69	1.16	1.86
7UM	South Farmingdale	CN	7UM655	13	3.18	2.75	5.93	2.66	1.15	3.81
7UM	South Farmingdale	CN	7UM656	13	2.01	6.47	8.48	0.05	1.59	1.64
7UM	South Farmingdale	CN	7UM657	13	4.59	13.44	18.04	0.14	0.34	0.48
7UM	South Farmingdale	CN	7UM658	13	2.56	3.29	5.84	0.84	1.29	2.13
7UM	South Farmingdale	CN	7UM911	13	1.90	2.96	4.86	0.19	0.22	0.41
7UM	South Farmingdale	CN	7UM917	13	2.25	1.36	3.61	0.87	1.50	2.37
7UM	South Farmingdale	CN	7UM918	13	2.90	2.13	5.03	0.35	3.77	4.13
7UM	South Farmingdale	CN	7UM919	13	3.85	4.71	8.56	1.76	4.89	6.65
7WM	Brightwaters	WS	7WM628	13	3.81	11.65	15.46	0.52	0.38	0.91
7WM	Brightwaters	WS	7WM631	13	3.22	11.94	15.16	0.71	0.38	1.09
7WM	Brightwaters	WS	7WM632	13	3.48	4.79	8.26	0.27	1.53	1.80
7WM	Brightwaters	WS	7WM772	13	6.24	12.98	19.22	0.03	10.24	10.27
7WM	Brightwaters	WS	7WM773	13	4.49	7.39	11.88	0.89	0.27	1.16
7WM	Brightwaters	WS	7WM774	13	4.65	6.88	11.53	0.27	10.60	10.87
7WM	Brightwaters	WS	7WM775	13	5.61	8.13	13.74	0.03	2.18	2.20
7XM	Great River	WS	7XM944	13	3.51	4.83	8.34	1.27	7.43	8.70
7XM	Great River	WS	7XM945	13	5.42	11.16	16.58	0.68	1.28	1.96
7XM	Great River	WS	7XM984	13	3.46	10.28	13.74	0.19	3.76	3.95
7XM	Great River	WS	7XM997	13	7.92	15.86	23.78	0.13	3.57	3.70
7XM	Great River	WS	7XM998	13	3.63	16.13	19.76	0.05	2.22	2.27
7XM	Great River	WS	7XM999	13	4.98	15.84	20.82	0.05	6.38	6.43
7Z	Lindenhurst	WS	7Z465	13	3.68	11.24	14.92	2.94	0.47	3.40
7Z	Lindenhurst	WS	7Z495	13	5.11	10.78	15.89	0.02	0.69	0.70
7Z	Lindenhurst	WS	7Z617	13	1.82	-	1.82	0.15	-	0.15
7Z	Lindenhurst	WS	7Z618	13	5.11	12.09	17.19	0.45	6.84	7.29
7Z	Lindenhurst	WS	7Z619	13	1.47	-	1.47	0.17	-	0.17
7Z	Lindenhurst	WS	7Z621	13	2.30	7.74	10.05	0.05	7.70	7.75
7Z	Lindenhurst	WS	7Z623	13	3.76	16.72	20.48	0.15	0.35	0.51
7Z	Lindenhurst	WS	7Z642	13	4.60	14.73	19.33	0.12	1.48	1.60
7ZM	Pines	WS	7ZM829	13	2.58	1.89	4.47	1.67	0.93	2.60
7ZM	Pines	WS	7ZM831	13	-	-	-	4.32	-	4.32
7ZM	Pines	WS	7ZM832	13	3.87	12.97	16.83	0.33	2.60	2.93
7ZM	Pines	WS	7ZM833	13	3.29	1.81	5.10	0.21	6.05	6.26
7ZM	Pines	WS	7ZM834	13	4.52	8.94	13.45	0.79	3.25	4.04
7ZM	Pines	WS	7ZM835	13	6.61	13.10	19.71	0.09	0.48	0.57
7ZM	Pines	WS	7ZM836	13	4.70	17.47	22.16	0.22	1.19	1.41
7ZM	Pines	WS	7ZM885	13	-	-	-	3.03	-	3.03
8A	Ronkonkoma	ES	8A677	13	3.86	8.68	12.54	2.10	3.48	5.58
8A	Ronkonkoma	ES	8A711	13	4.06	12.53	16.59	0.38	8.15	8.53
8A	Ronkonkoma	ES	8A712	13	5.04	5.96	11.00	0.67	4.40	5.07
8A	Ronkonkoma	ES	8A713	13	4.75	4.51	9.26	4.68	1.23	5.91
8A	Ronkonkoma	ES	8A714	13	5.25	17.41	22.66	0.05	2.62	2.67

8A	Ronkonkoma	ES	8A715	13	-	-	-	3.39	-	3.39
8A	Ronkonkoma	ES	8A726	13	4.90	11.69	16.59	0.12	0.72	0.84
8AX	Patchogue	ES	8AX047	13	1.20	1.06	2.26	0.34	1.35	1.69
8AX	Patchogue	ES	8AX648	13	3.22	10.63	13.85	2.23	3.31	5.55
8AX	Patchogue	ES	8AX649	13	3.48	19.08	22.56	0.54	4.43	4.97
8AX	Patchogue	ES	8AX651	13	3.43	6.45	9.88	1.70	11.61	13.31
8AX	Patchogue	ES	8AX652	13	2.86	7.63	10.49	0.06	3.19	3.25
8AX	Patchogue	ES	8AX653	13	4.96	11.96	16.93	0.11	1.12	1.23
8AX	Patchogue	ES	8AX654	13	6.17	13.16	19.33	0.32	1.32	1.64
8B	Peconic	ES	8B7K5	13	8.47	29.56	38.03	0.04	18.55	18.59
8B	Peconic	ES	8B7K6	13	5.95	17.45	23.40	0.01	8.81	8.82
8B	Peconic	ES	8B951	13	8.71	30.93	39.65	0.30	8.93	9.23
8B	Peconic	ES	8B952	13	4.03	29.47	33.50	0.02	5.12	5.14
8D	Holbrook	ES	8D734	13	2.75	15.53	18.28	0.90	1.45	2.36
8D	Holbrook	ES	8D735	13	3.74	11.56	15.31	0.68	4.04	4.72
8D	Holbrook	ES	8D736	13	3.33	9.38	12.70	0.66	11.87	12.53
8D	Holbrook	ES	8D738	13	-	-	-	0.17	0.17	0.34
8D	Holbrook	ES	8D739	13	-	-	-	0.18	0.20	0.38
8D	Holbrook	ES	8D745	13	-	-	-	3.15	-	3.15
8D	Holbrook	ES	8D987	13	4.26	7.80	12.07	1.90	3.75	5.65
8D	Holbrook	ES	8D988	13	2.27	2.32	4.59	2.22	15.68	17.90
8DR	Wildwood	ES	8DR426	13	10.05	16.48	26.53	6.05	22.89	28.94
8DR	Wildwood	ES	8DR427	13	3.91	6.63	10.54	1.06	7.40	8.46
8DR	Wildwood	ES	8DR428	13	4.09	5.27	9.36	0.25	10.89	11.14
8DR	Wildwood	ES	8DR641	13	4.71	22.59	27.30	0.27	10.11	10.38
8E	Centereach	ES	8E493	13	2.99	15.18	18.17	0.76	5.10	5.86
8E	Centereach	ES	8E494	13	5.00	10.67	15.68	1.32	12.97	14.28
8E	Centereach	ES	8E824	13	1.87	7.95	9.81	0.04	3.49	3.53
8E	Centereach	ES	8E825	13	4.61	16.10	20.70	0.13	7.80	7.93
8E	Centereach	ES	8E826	13	1.59	6.96	8.55	0.02	0.16	0.18
8E	Centereach	ES	8E827	13	3.71	10.68	14.39	0.03	4.75	4.77
8E	Centereach	ES	8E828	13	2.51	14.52	17.03	0.18	3.25	3.43
8ED	Edwards	ES	8ED3H2	13	2.20	6.54	8.74	3.99	3.64	7.63
8ED	Edwards	ES	8ED3H4	13	3.44	8.86	12.30	1.82	6.17	7.99
8ED	Edwards	ES	8ED3H5	13	5.53	2.34	7.87	1.53	1.09	2.62
8ED	Edwards	ES	8ED3H6	13	4.78	4.46	9.24	1.62	10.67	12.29
8ED	Edwards	ES	8ED3H7	13	12.19	15.10	27.29	4.93	32.04	36.97
8ED	Edwards	ES	8ED3H9	13	2.59	1.36	3.95	3.76	10.07	13.83
8EX	Yaphank	ES	8EX246	13	4.98	6.48	11.46	0.88	10.78	11.66
8EX	Yaphank	ES	8EX962	13	5.89	5.09	10.98	0.15	8.58	8.73
8EX	Yaphank	ES	8EX963	13	3.70	3.82	7.52	1.16	22.53	23.69
8F	Port Jefferson	ES	8F705	13	2.94	7.51	10.45	0.29	7.15	7.44
8F	Port Jefferson	ES	8F706	13	2.62	16.39	19.01	0.19	13.80	13.99
8F	Port Jefferson	ES	8F707	13	4.04	4.99	9.03	0.42	3.66	4.08
8F	Port Jefferson	ES	8F708	13	6.86	13.47	20.34	0.19	12.24	12.43
8F	Port Jefferson	ES	8F709	13	-	-	-	0.11	-	0.11
8F	Port Jefferson	ES	8F7H7	13	5.02	4.07	9.09	0.16	5.32	5.47
8F	Port Jefferson	ES	8F7H8	13	3.87	8.50	12.37	0.36	12.58	12.94
8G	Holtsville	ES	8G935	13	1.57	2.70	4.27	0.33	16.74	17.07
8G	Holtsville	ES	8G971	13	3.73	3.81	7.54	0.38	2.17	2.55
8G	Holtsville	ES	8G972	13	3.12	5.37	8.50	0.07	3.89	3.96
8G	Holtsville	ES	8G973	13	3.39	6.92	10.32	0.17	6.10	6.27
8G	Holtsville	ES	8G974	13	3.70	1.54	5.24	0.62	11.22	11.84

8G	Holtsville	ES	8G977	13	6.98	7.01	14.00	0.60	5.35	5.95
8G	Holtsville	ES	8G978	13	4.86	11.22	16.08	0.24	3.77	4.01
8G	Holtsville	ES	8G979	13	2.04	8.75	10.79	0.77	4.13	4.90
8GX	West Yaphank	ES	8GX8H5	13	0.89	0.25	1.14	0.98	4.06	5.03
8GX	West Yaphank	ES	8GX8H6	13	4.58	7.60	12.18	0.19	19.65	19.85
8GX	West Yaphank	ES	8GX8H7	13	2.27	1.26	3.53	0.27	10.61	10.89
8GX	West Yaphank	ES	8GX9H1	13	2.12	1.69	3.81	1.74	3.77	5.51
8GX	West Yaphank	ES	8GX9H3	13	3.18	14.59	17.77	0.67	7.35	8.03
8HX	North Bellport	ES	8HX4P1	13	5.27	13.23	18.50	0.18	6.95	7.12
8HX	North Bellport	ES	8HX4P2	13	3.99	11.89	15.88	0.06	3.89	3.95
8HX	North Bellport	ES	8HX4P3	13	7.33	12.66	20.00	0.17	11.56	11.73
8HX	North Bellport	ES	8HX4P4	13	1.91	4.19	6.09	0.48	7.65	8.13
8HX	North Bellport	ES	8HX4P5	13	3.64	19.35	22.99	0.13	6.13	6.25
8HX	North Bellport	ES	8HX4P6	13	5.00	3.79	8.79	3.35	24.64	27.99
8J	Southold	ES	8J684	13	10.81	41.13	51.95	2.20	20.09	22.29
8J	Southold	ES	8J685	13	7.51	18.35	25.87	0.76	20.31	21.07
8J	Southold	ES	8J691	13	0.16	0.05	0.21	0.83	-	0.83
8J	Southold	ES	8J891	13	3.17	3.71	6.88	0.36	0.55	0.91
8JA	Jamesport	ES	8JA624	13	9.15	23.05	32.20	0.14	18.78	18.92
8JA	Jamesport	ES	8JA625	13	4.87	31.40	36.27	0.12	12.00	12.12
8JR	Tuthill	ES	8JR959	13	5.60	9.36	14.96	0.11	13.19	13.31
8JR	Tuthill	ES	8JR961	13	7.07	21.51	28.58	0.11	18.10	18.20
8M	Miller Place	ES	8M5P5	13	2.94	0.99	3.93	1.04	32.53	33.58
8M	Miller Place	ES	8M5P6	13	3.97	3.97	7.93	0.99	22.93	23.92
8M	Miller Place	ES	8M5P7	13	5.08	14.52	19.60	0.10	15.49	15.59
8M	Miller Place	ES	8M5P8	13	4.93	12.43	17.36	0.18	9.49	9.67
8M	Miller Place	ES	8M7P2	13	5.17	13.63	18.80	1.18	5.50	6.68
8M	Miller Place	ES	8M7P4	13	4.09	5.91	10.00	1.20	29.08	30.28
8MR	Stony Brook	ES	8MR907	13	7.23	27.13	34.36	0.08	10.68	10.76
8MR	Stony Brook	ES	8MR908	13	2.90	11.72	14.62	0.26	4.66	4.92
8MX	South Shirley	ES	8MX914	13	5.54	19.12	24.66	0.47	3.90	4.37
8Q	North Shore Beach	ES	8Q6K1	13	2.62	4.67	7.29	0.95	6.46	7.41
8Q	North Shore Beach	ES	8Q6K3	13	3.99	19.50	23.50	0.05	4.24	4.29
8Q	North Shore Beach	ES	8Q6K4	13	3.48	17.15	20.63	0.05	-	0.05
8Q	North Shore Beach	ES	8Q6K6	13	2.80	14.26	17.06	0.03	4.14	4.18
8QR	Mount Sinai	ES	8QR727	13	1.22	0.63	1.85	0.45	1.76	2.21
8QR	Mount Sinai	ES	8QR728	13	1.69	3.44	5.13	0.10	13.23	13.34
8QR	Mount Sinai	ES	8QR729	13	2.49	6.06	8.55	0.13	1.39	1.52
8QR	Mount Sinai	ES	8QR893	13	3.98	10.90	14.88	0.40	5.77	6.17
8QR	Mount Sinai	ES	8QR894	13	6.04	12.45	18.49	0.72	14.78	15.49
8QR	Mount Sinai	ES	8QR895	13	4.04	4.72	8.76	0.56	21.57	22.13
8QR	Mount Sinai	ES	8QR912	13	3.58	3.75	7.33	1.25	13.41	14.65
8QX	Mastic Park	ES	8QX906	13	2.74	8.79	11.53	-	0.66	0.66
8RR	Coram	ES	8RR901	13	3.37	4.59	7.96	0.61	3.62	4.24
8RR	Coram	ES	8RR902	13	3.06	2.03	5.08	6.63	8.56	15.19
8RR	Coram	ES	8RR903	13	8.50	13.31	21.80	0.02	10.06	10.08
8RR	Coram	ES	8RR927	13	3.67	3.08	6.76	1.84	24.97	26.81
8RR	Coram	ES	8RR928	13	4.43	4.90	9.33	0.09	18.33	18.42
8RR	Coram	ES	8RR929	13	3.69	11.70	15.39	0.67	7.93	8.60
8RR	Coram	ES	8RR931	13	2.72	6.92	9.63	3.80	30.18	33.98
8RX	Moriches	ES	8RX741	13	7.38	24.38	31.76	1.08	1.56	2.64
8RX	Moriches	ES	8RX742	13	9.31	6.14	15.45	1.00	37.10	38.10
8RX	Moriches	ES	8RX743	13	4.63	22.21	26.84	0.98	4.28	5.26

8RX	Moriches	ES	8RX746	13	7.10	11.62	18.72	0.31	4.67	4.98
8RX	Moriches	ES	8RX757	13	9.06	8.06	17.12	8.70	27.93	36.63
8RX	Moriches	ES	8RX975	13	2.76	5.67	8.43	0.19	0.23	0.42
8RX	Moriches	ES	8RX986	13	6.63	16.69	23.31	1.78	15.75	17.53
8T	Eastport	ES	8T2P5	13	5.92	27.57	33.48	0.03	13.09	13.12
8T	Eastport	ES	8T2P6	13	5.37	6.37	11.75	1.46	38.99	40.44
8T	Eastport	ES	8T6P6	13	6.35	10.82	17.17	0.04	18.01	18.05
8T	Eastport	ES	8T6P7	13	3.89	13.57	17.47	0.06	9.97	10.03
8T	Eastport	ES	8T925	13	5.49	9.44	14.93	4.42	20.03	24.45
8W	Terryville	ES	8W3P9	13	3.32	8.28	11.61	0.78	11.26	12.04
8W	Terryville	ES	8W659	13	2.02	0.28	2.30	0.03	5.13	5.16
8W	Terryville	ES	8W661	13	3.35	15.17	18.52	0.14	10.80	10.95
8W	Terryville	ES	8W662	13	6.83	16.34	23.18	0.13	12.66	12.79
8W	Terryville	ES	8W663	13	1.70	2.68	4.38	0.85	1.95	2.80
8W	Terryville	ES	8W664	13	4.28	10.17	14.45	0.53	10.17	10.70
8W	Terryville	ES	8W674	13	3.68	18.33	22.01	0.23	8.28	8.51
8WF	William Floyd	ES	8WF1H1	13	2.32	12.80	15.12	1.43	0.29	1.73
8WF	William Floyd	ES	8WF1H2	13	8.73	20.43	29.16	0.77	6.62	7.39
8WF	William Floyd	ES	8WF1H6	13	1.42	1.66	3.08	1.96	2.96	4.92
8WF	William Floyd	ES	8WF1H7	13	4.18	7.75	11.93	3.06	0.60	3.66
8WF	William Floyd	ES	8WF1H8	13	-	-	-	6.84	0.72	7.56
8WR	Orient Point	ES	8WR776	13	5.18	14.49	19.67	0.73	14.78	15.52
8WR	Orient Point	ES	8WR781	13	0.07	0.34	0.42	0.07	0.01	0.07
8XR	Ridge	ES	8XR645	13	7.57	6.21	13.78	2.17	24.69	26.87
8XR	Ridge	ES	8XR646	13	5.40	8.63	14.03	2.24	23.32	25.56
8XR	Ridge	ES	8XR647	13	2.96	1.11	4.07	1.36	37.20	38.56
8XR	Ridge	ES	8XR924	13	5.26	4.07	9.33	1.82	13.01	14.83
8XR	Ridge	ES	8XR933	13	6.12	8.14	14.26	10.05	28.20	38.26
8Z	Shoreham	ES	8Z417	4	0.10	0.35	0.45	0.01	0.19	0.21
9A	Riverhead	ES	9A1N9	13	1.15	0.05	1.19	0.09	0.50	0.59
9A	Riverhead	ES	9A1P9	13	5.62	4.36	9.98	0.54	12.19	12.73
9A	Riverhead	ES	9A2N9	13	3.29	4.81	8.10	2.55	9.55	12.10
9A	Riverhead	ES	9A759	13	4.75	8.54	13.29	0.22	14.61	14.83
9A	Riverhead	ES	9A762	13	4.32	7.97	12.29	0.06	2.36	2.42
9A	Riverhead	ES	9A763	13	11.65	30.84	42.48	0.70	10.91	11.61
9A	Riverhead	ES	9A764	13	1.05	0.09	1.14	0.06	0.05	0.11
9AU	Suffolkshire	ES	9AU4H1	13	5.31	6.84	12.16	0.60	8.23	8.83
9AU	Suffolkshire	ES	9AU4H4	13	3.19	5.50	8.69	0.35	4.97	5.32
9AU	Suffolkshire	ES	9AU796	13	3.54	8.92	12.46	0.12	10.84	10.96
9AU	Suffolkshire	ES	9AU798	13	4.91	10.47	15.38	0.08	12.37	12.45
9B	Southampton	ES	9B721	13	2.98	6.40	9.38	0.10	9.24	9.34
9B	Southampton	ES	9B722	13	2.99	16.61	19.60	0.11	5.52	5.63
9B	Southampton	ES	9B723	13	3.20	5.74	8.94	5.08	9.83	14.91
9B	Southampton	ES	9B724	13	5.24	16.62	21.85	9.66	26.56	36.22
9B	Southampton	ES	9B913	13	3.94	9.67	13.61	3.03	14.74	17.76
9B	Southampton	ES	9B915	13	3.51	5.94	9.45	0.13	16.63	16.76
9B	Southampton	ES	9B916	13	4.64	4.67	9.31	0.21	15.50	15.71
9C	Canal	ES	9C5K1	13	3.22	14.29	17.51	0.57	12.91	13.48
9C	Canal	ES	9C5K2	13	5.01	6.95	11.96	0.48	4.37	4.85
9C	Canal	ES	9C5K5	13	4.62	11.20	15.82	0.49	4.12	4.61
9C	Canal	ES	9C5K6	13	4.22	9.41	13.63	0.37	6.98	7.35
9D	Quogue	ES	9D693	13	4.34	21.16	25.50	-	15.95	15.95
9D	Quogue	ES	9D943	13	6.06	14.46	20.52	0.04	19.37	19.40

9DF	Deerfield	ES	9DF2K2	13	6.88	10.38	17.26	0.42	16.33	16.75
9DF	Deerfield	ES	9DF2K3	13	4.69	18.11	22.80	0.61	23.89	24.50
9DF	Deerfield	ES	9DF2K6	13	5.35	5.97	11.31	0.58	12.02	12.60
9DF	Deerfield	ES	9DF2K7	13	6.18	19.85	26.03	1.64	32.52	34.16
9E	Buell	ES	9E178	13	4.62	2.78	7.40	1.04	24.18	25.23
9E	Buell	ES	9E934	13	2.92	3.70	6.62	3.21	20.24	23.44
9E	Buell	ES	9E937	13	5.83	7.41	13.24	1.63	11.80	13.43
9E	Buell	ES	9E985	13	3.80	3.40	7.20	0.07	24.46	24.53
9E	Buell	ES	9E991	13	6.22	4.36	10.58	2.80	16.65	19.45
9E	Buell	ES	9E992	13	7.44	24.83	32.27	2.17	19.53	21.70
9EU	East Hampton GT	ES	9EU4N7	13	7.49	22.10	29.59	2.25	8.39	10.65
9EU	East Hampton GT	ES	9EU4N8	13	5.28	9.01	14.28	1.13	20.94	22.07
9EU	East Hampton GT	ES	9EU6H5	13	5.12	8.10	13.22	2.27	47.75	50.02
9EU	East Hampton GT	ES	9EU6H6	13	3.72	6.67	10.39	2.49	13.32	15.81
9EU	East Hampton GT	ES	9EU6H7	13	5.11	15.50	20.61	3.09	13.38	16.47
9EU	East Hampton GT	ES	9EU6H8	13	1.67	1.60	3.26	2.81	1.18	3.99
9HH	Hither Hills	ES	9HH938	4	2.77	3.41	6.18	0.12	1.94	2.06
9HH	Hither Hills	ES	9HH941	4	1.75	3.79	5.54	0.13	5.05	5.18
9J	Tiana	ES	9J932	13	5.29	7.05	12.33	0.83	7.04	7.88
9J	Tiana	ES	9J953	13	4.76	19.01	23.77	0.19	2.79	2.98
9J	Tiana	ES	9J957	13	5.31	10.39	15.71	0.36	20.87	21.23
9J	Tiana	ES	9J958	13	5.82	20.16	25.98	0.04	2.65	2.69
9K	Culloden Point	ES	9K942	4	2.40	0.98	3.39	0.71	5.75	6.46
9K	Culloden Point	ES	9K976	13	4.34	10.14	14.48	0.65	7.03	7.68
9L	East Hampton	ES	9L420	4	-	-	-	-	-	-
9L	East Hampton	ES	9L767	4	0.29	0.47	0.76	2.58	7.19	9.77
9L	East Hampton	ES	9L782	4	0.15	0.13	0.28	3.78	7.64	11.42
9R	Bridgehampton	ES	9R626	13	7.57	23.49	31.06	1.91	20.24	22.16
9R	Bridgehampton	ES	9R627	13	6.02	11.07	17.09	1.50	20.74	22.24
9R	Bridgehampton	ES	9R777	13	5.98	24.61	30.60	0.08	25.93	26.01
9R	Bridgehampton	ES	9R783	13	3.48	7.49	10.97	0.21	23.99	24.20
9R	Bridgehampton	ES	9R939	13	4.21	5.25	9.46	0.46	1.21	1.67
9R	Bridgehampton	ES	9R989	13	6.65	15.86	22.52	0.12	29.55	29.67
9U	Montauk	ES	9U678	4	3.21	1.28	4.50	0.90	1.38	2.28
9U	Montauk	ES	9U679	4	2.81	9.01	11.82	0.46	2.35	2.81
9X	Hero	ES	9X797	13	6.20	17.00	23.21	0.11	16.70	16.80
9Z	Amagansett	ES	9Z694	13	3.53	10.91	14.44	0.04	16.24	16.28
9Z	Amagansett	ES	9Z807	13	6.71	21.90	28.61	0.19	12.79	12.98

PSEG Long Island
Case Name: PSEG LI - Rate Case 2015
Docket No(s): Matter No. 15-00262

Response to Discovery Request: DPS-CBP-0449
Date of Response: 05/07/2015
Witness: CAPITAL BUDGETS

Question:

Questions a through c refers to the Company's response DPS-CBP-377:

- a. Provide the approved T&D budget capital expenditures for 2015 with and without loading for A&G and Pension/OPEB.
- b. Response to DPS-CBP-0372 states "The amounts shown on Exhibit ____ (CBP-2) for each of the rate case years (2016 - 2018) need to be increased by approximately 14.3% to align with the Proposed Budget Total with the A&G and Pensions/OPEB used in RRP-1." Explain why a loading factor for A&G and Pension/OPEB should be applied to the base capital expenditure given that the base includes items such as material costs and contingency.
- c. Provide workpapers showing how the 14.3% in question (e) above was developed.

Attachments Provided Herewith: 1

Copy of 2015CapBudget.xlsx

Response:

- a. See Attached.
- b. See excel file provided in response CBP 288.
- c. See excel file provided in response CBP 288.

	2015 Proposed Budget (12/5/14) without incremental OPEB & A&G Loading	2015 Proposed Budget (12/5/14) with incremental OPEB & A&G loading
BLANKETS		
Blankets - Regulatory		
Disturbance monitoring (DME) (New program for 2015-NERC requirement)	\$3,181,075	\$3,655,746
Dusk to Dawn Lighting	\$475,000	\$545,878
New Business	\$15,040,000	\$17,284,224
Public Works	\$6,050,000	\$6,952,763
Tel Pole Transfers	\$3,100,000	\$3,562,573
Blankets - Regulatory Subtotal	\$27,846,075	\$32,001,184
Blankets - Load Growth		
Electric System Planning Jobs (C&R/DSI)	\$3,616,280	\$4,155,891
Blankets - Load Growth Subtotal	\$3,616,280	\$4,155,891
Blankets - Reliability		
Distribution Station Equipment Failures	\$4,460,388	\$5,125,954
System Spares	\$4,500,000	\$5,171,477
Transmission Station Equipment Failures	\$1,048,795	\$1,205,293
Transmission System Failures	\$1,921,755	\$2,208,514
Accidents	\$2,600,000	\$2,987,964
Distribution Automation - SCADA Concentrator Replacement	\$322,000	\$370,048
Replace Transmission Poles	\$1,500,000	\$1,723,826
Circuit Improvement Program	\$3,000,000	\$3,447,651
Distribution Cable Replacement	\$9,950,000	\$11,434,710
Minor Extension & Changes	\$17,820,000	\$20,479,048
RFL9300 Replacement	\$292,837	\$336,533
Transmission Stations - Minor Additions	\$750,000	\$861,913
Distribution Bkr-Repl/Addition Program	\$364,000	\$418,315
Distribution Pole Replacement / Reinforcement	\$8,000,000	\$9,193,736
Distribution Subs - Minor Additions Program	\$452,000	\$519,446
Distribution Transformers	\$24,800,000	\$28,500,583
RTU Replacements and Enhancements	\$1,291,539	\$1,484,259
Substation Battery Replacements	\$360,000	\$413,718
Substation Reliability Enhancements Program	\$5,352,000	\$6,150,610
Transmission Breaker- Replacement/Additions	\$1,922,460	\$2,209,324
Upgrade Lightning/Grounding Program	\$166,460	\$191,299
Inside Plant Equipment / Replace Upgrade	\$342,000	\$393,032
Multiple Interruptions	\$5,516,000	\$6,339,081
Transmission System Reliability	\$3,885,000	\$4,464,708
Substation Control & Protection Improvements	\$2,993,203	\$3,439,840
Transformer Load Management	\$100,000	\$114,922
Blankets - Reliability Subtotal	\$103,710,437	\$119,185,804
Blankets - Economic		
Salvage	-\$400,000	-\$459,687
Blankets - Economic Subtotal	-\$400,000	-\$459,687
Blankets - Other		
Capital Tools & Equipment	\$2,001,769	\$2,300,467
Improve Substation Restoration Communications	\$200,000	\$229,843
Project Funding for Emerging Work	\$1,114,400	\$1,280,687
Blankets -Other Subtotal	\$3,316,169	\$3,810,997
GRAND TOTAL BLANKETS	\$138,088,961	\$158,694,189
IN-FLIGHT SPECIFICS	2015 Proposed Bu	2016 Proposed E
In Flight -Load Growth		
Shelter Island - New Distrib. Subst	\$15,000,000	\$17,301,256
Amagansett - East Hampton 33kV cable operated at 23kV (6.2MilesHw) and associated Southfork Conversion projects.	\$5,000,000	\$5,746,085
Ruland-Plainview-New Trans Circuit	\$441,000	\$506,805
Kings Hwy - New Sub (3-33MVA Banks)LAND portion	\$5,500,000	\$6,320,694
Southold – Replace Existing banks	\$4,900,000	\$5,631,164

Cedarhurst-Upgrade Substation from 3 33kv, 69-13kv Bank	\$2,900,000	\$3,332,729
Floral Park - Install 33 MVA Bank & Swgr	\$5,500,000	\$6,320,694
Levittown-Plainedge Reconductor 69-571	\$4,100,000	\$4,711,790
Malverne - Replace existing banks & switchgear w/ 2-69/13kv 33MVA banks & 2 1/2 swgr lineups	\$150,000	\$172,383
Park Place Add 33MVA 33/13kV bank & 1/2 Swgr Lineup	\$2,826,239	\$3,247,962
SOUTH MANOR - Ne Sub 1- 33 MVA Bank	\$6,025,000	\$6,924,033
Terryville Feeders	\$5,500,000	\$6,320,694
Berry St Substation (formally North Lindenhurst) - New Sub 2 - 33 MVA Banks)	\$7,800,000	\$8,963,893
Great Neck - Port Washington New 69kV circuit 69-485	\$2,100,000	\$2,413,356
In-Flight Load Growth Subtotal	\$67,742,239	\$77,913,538
In Flight - Reliability		
Far Rockaway - Replace Distribution Switchgear and Control Wiring (Bank 7 & 8)	\$3,500,000	\$4,022,260
Rockaway Beach - Replace Distribution Switchgear and Control Wiring 3&4	\$2,500,000	\$2,873,043
Rockaway Beach - Replace 4kv Banks & Swgr 1&2	\$150,000	\$172,383
Barrett - Replace 1/2 switchgear a/w Bank 7 and 1/2 switchgear a/w Bank 8 & Bank 11	\$2,000,000	\$2,298,434
Arverne - Replace 33kv Switchgear, control wiring and control panels	\$2,900,000	\$3,332,729
Riverhead replace switchgear a/w Banks 3&3A and 4&4A	\$500,000	\$574,609
In-Flight Reliability Subtotal	\$11,550,000	\$13,273,458
In Flight - Economic		
Elwood - INSTALL 80 MVAR Reactor	\$1,500,000	\$1,723,826
In-Flight Economic Subtotal	\$1,500,000	\$1,723,826
GRAND TOTAL INFLIGHT	\$80,792,239	\$92,910,822
New Regulatory		
Wantagh (Goose Creek Bridge)	\$2,300,000	\$2,643,199
Remove Temporary Aerial Cable		
LIRR Colonial Rd Bridge	\$1,200,000	\$1,379,060
New Regulatory Subtotal	\$3,500,000	\$4,022,259
New - Load Growth		
Old Bethpage New Substation & Land Purchase (RXR)	\$1,000,000	\$1,149,217
New South Rd Substation Expansion (Easement)	\$500,000	\$574,609
BOHEMIA NEW EXIT FEEDER 7BH-3K7	\$1,564,000	\$1,797,375
Orchard Sub - Add Bank	\$5,600,000	\$6,435,615
Flowerfield Sub, C&R, Exit	\$800,000	\$919,374
Middle Island - New Sub LAND	\$1,500,000	\$1,723,826
Syosset Add 33MVA Bank	\$9,500,000	\$10,917,562
RIVERHEAD NEW FEEDER (W MAIN ST, RIVERHEAD)	\$4,000,000	\$4,596,868
Greenfield - Land Purchase & Replace existing 33-4kv Banks with 69-13 kv Banks & UG Transmission	\$100,000	\$114,922
Hempstead - Convert Sub from 23kV to 69kV	\$750,000	\$861,913
TECH PARK NEW FEEDER (SPUR DR, ISLIP TERR)	\$1,698,000	\$1,951,371
GREENLAWN NEW FEEDER (PULASKI RD, GREENLAWN)	\$3,774,000	\$4,337,145
Navy Rd (Montauk) new 23-13kV Sub	\$400,000	\$459,687
Smithtown OH Reinforcement Route 347	\$1,200,000	\$1,379,060
Riverhead - Eastport 69-951 Reconductor	\$4,482,000	\$5,150,791
New Cassel Investigation of Land Purchase	\$100,000	\$114,922
North Bellmore Replace 1200 amp swgr with 2000 amp swgr	\$4,900,000	\$5,631,164
New Load Growth Subtotal	\$41,868,000	\$48,115,421
New Reliability		

Long Beach - Replace first and second 1/2 switchgears & control cables	\$380,000	\$436,702
Woodmere Replace Control cables	\$0	
Far Rockaway - Replace 33kV Switchgear, Control Wiring and Control Panels	\$1,400,000	\$1,608,904
Far Rock. Replace Dist Swgr 2&11	\$1,500,000	\$1,723,826
North Shore Hospital - Dedicated Feeder	\$3,500,000	\$4,022,260
North Shore Hospital - Dedicated Feeder- Reimbursement	-\$3,500,000	-\$4,022,260
MacArthur - Install 27 MVAR Cap Bank	\$600,000	\$689,530
Nesconset Cap Bank Addition (Smithtown area)	\$600,000	\$689,530
Southampton - Install 54 MVAR Cap bank	\$1,500,000	\$1,723,826
Barrett-Valley Stream Transmission Cable Life Extension circuit 138-292	\$7,100,000	\$8,159,441
Captree-Robert Moses Trans. Cable Life Ext. circuit 23-738	\$600,000	\$689,530
Ocean Beach-Fire Island Pines Transmission Cable Life extension & N-1-1	\$600,000	\$689,530
Garden City Park 4kV Switchgear Replacement	\$150,000	\$172,383
New Reliability Subtotal	\$14,430,000	\$16,583,202
New Other		
Sys Operations Control Room Modification/Upgrade	\$120,000	\$137,906
New Other Subtotal	\$120,000	\$137,906
NEW GRAND TOTAL	\$59,918,000	\$68,858,788
Total T&D Budget	\$278,799,200	\$320,463,799

PSEG Long Island
Case Name: PSEG LI - Rate Case 2015
Docket No(s): Matter No. 15-00262

Response to Discovery Request: DPS-CBP-REB-0456
Date of Response: 06/11/2015
Witness: N/A

Question:

1. Provide an explanation of the various column headings shown in Exhibit____(CBP-REB-1).
2. Explain how the data shown in Exhibit____(CBP-REB-1) was incorporated in the development of Exhibit__(CBP-2).
3. Explain how the data shown in Exhibit____(CBP-REB-1) was incorporated in the development of response to DPS-CBP-0372.
4. On page 7 of the rebuttal testimony it states, “The OPEB loading amount, for example is \$27.3 million versus the forecast of \$27.9 million and the A&G loadings amount is \$23.2 million versus the forecast of \$21.7 million. This information is contained in Exhibit____(CBP-REB-1).”
 - a) Explain where in Exhibit____(CBP-REB-1) the amounts mentioned above are reflected.

Attachments Provided Herewith: 0

Response:

1. The SAP capital budget data was summarized in the various column headings shown in Exhibit ____(CBP-REB-1) from the excel file provided in response to IR 459 called “Capital Rebuttal File.xlsx”. The WBS is the project number. Direct costs refer to costs budgeted directly to the WBS by the transmission and distribution organization. Indirect costs are capital overheads for transmission and distribution managers and staff who support capital but are not directly charging the specific WBS elements. Fringe Benefits, Payroll Taxes, and OPEBs and Pensions are associated with the direct and indirect capital labor for the transmission and distribution organization. Fleet is transportation labor and non labor for transmission and distribution transportation. Shared Services A&G costs are labor and non labor costs for fixed assets, accounting and other support groups who support capital but do not directly charge the specific WBS elements.
2. The Rebuttal Panel has explained that the data provided in CBP-REB-1 was not available in that form at the time that CPB-2 was being prepared in late 2014 and January 2015 when the Rate Plan filing was being prepared.

3. DPS-CBP-372 asked for a reconciliation of Exhibit __ (RRP-1), page 17 of 19, excluding FEMA Related Projects and Total T&D Budget amounts included in Exhibit __ (CBP-2), page 4 of 4. As explained above, the information in CPB-REB-1 was recently developed as the SAP system was activated and input. The information was not fully loaded and available in mid-April 2015 when this interrogatory was answered. In any event, we do not believe that the two issues are related, i.e., the issue raised in DPS-CPB-372 and the instant inquiry.
4. Exhibit __ (CBP-REB-1) was summarized from the excel file provided in response to IR 459 called "Capital Rebuttal File.xlsx". The amount can be found in the OPEB column of the file on tab "Proj Direct Indirect."

PSEG Long Island
Case Name: PSEG LI - Rate Case 2015
Docket No(s): Matter No. 15-00262

Response to Discovery Request: DPS-CBP-REB-0475
Date of Response: 06/16/2015
Witness: N/A

Question:

Response to DPS-CBP-0372 states “The amounts shown on Exhibit ____ (CBP-2) for each of the rate case years (2016 – 2018) need to be increased by approximately 14.3% to align with the Proposed Budget Total with the A&G and Pensions/OPEB used in RRP-1.”

- a) Provide workpapers showing how the 14.3% was developed.
- b) To the extent that different percentages were used for 2017 and 2018, provide workpapers showing how those percentages were developed.

Attachments Provided Herewith: 1
OPEB and AG Loading Calc.xlsx

Response:

- a) Attached is the workpaper for the calculation which was updated during the discovery process in DPS-CBP-0288. The updated workpaper shows that the combined incremental A&G and OPEB loading rate for transmission and distribution, customer, and AMI capital projects for 2015 should have been 13%, for 2016 12.2%, for 2017 13.2%, and for 2018 11.7%, as opposed to the 14% original estimated in the January 2015 filing for all four years. As can be seen from the attached workpaper, the relative proportions change based on the labor and fringe benefit, and OPEBs forecasts changes from year to year. Since the overall revenue requirement had been proposed, the slight differences between what loaded to capital versus what loaded to expense, storms and energy efficiency has not been updated across all components across all of the years.

	2015 Budget		
	Capital Loadings Applied to Base Labor	Incremental Day One Loading Applied to Total Capital	Incremental A&G Loading Applied to Total Capital
Loading	Assumed in Capital Base		
Medical/Pension	\$ 23.00		
Payroll Taxes	\$ 6.50		
A&G			\$ 21.70
OPEB		\$ 27.90	
Total	\$ 29.50	\$ 27.90	\$ 21.70

Allocations			
		Day One Loading Applied	A&G Loading Applied
T&D		\$20.92	\$20.76
Customer		\$0.75	\$0.75
AMI		\$0.25	\$0.25
Facilities		\$0.59	
IT		\$1.07	
Long Term ERP		\$2.48	
Customer		\$1.50	
T&D		\$0.31	
Power Markets		\$0.02	
Total		\$27.90	\$21.7

Rates Applied	2015 Budget		
		Day One Loading Applied	A&G Loading Applied
T&D		6.5%	6.5%
Customer		6.5%	6.5%
AMI		6.5%	6.5%
Facilities		7.0%	0.0%
IT		7.0%	0.0%
Long Term ERP		7.0%	0.0%
Customer		7.0%	0.0%
T&D		7.0%	0.0%
Power Markets		7.0%	0.0%
Total		6.6%	5.2%

		201	
	Total Costs Loaded to Capital Labor And to Total Capital	Incremental Day One Loading Applied to Total Capital	Incremental A&G Loading Applied to Total Capital
	\$ 23.00		
	\$ 6.50		
	\$ 21.70		\$ 22.30
	\$ 27.90	\$ 25.80	
	\$ 79.10	\$ 25.80	\$ 22.30

		201	
Before Incrementally load	TotalRate Case Base	Day One Loading Applied	A&G Loading Applied
\$278.30	\$320.50	\$ 22.71	\$ 21.16
\$10.00	\$11.50	\$ 1.26	\$ 1.18
\$3.39	\$3.90	\$ -	
\$7.90	\$8.50	\$ 0.32	
\$14.24	\$15.30	\$ 0.21	
\$33.04	\$35.50	\$ -	
\$20.01	\$21.50	\$ 0.56	
\$4.09	\$4.40	\$ 0.65	
\$0.23	\$0.25	\$ 0.09	
\$371.2	\$421.35	\$25.80	\$ 22.30

		201	
Total loading		Day One Loading Applied	A&G Loading Applied
13.0%	76.1%	6.3%	5.9%
13.0%	2.7%	6.3%	5.8%
13.0%	0.9%		
7.0%	2.0%	6.7%	0.0%
7.0%	3.6%	6.7%	0.0%
7.0%	8.4%		
7.0%	5.1%	6.7%	0.0%
7.0%	1.0%	6.6%	0.0%
7.0%	0.1%		
	100.0%	6.3%	5.5%

6		2017	
	Total Costs Loaded to Capital Labor And to Total Capital	Incremental Day One Loading Applied to Total Capital	Incremental A&G Loading Applied to Total Capital
	\$ -	\$ -	
	\$ -	\$ -	
	\$ 22.30		\$ 23.00
	\$ 25.80	\$ 25.60	
	\$ 48.10	\$ 25.60	\$ 23.00

6		2017	
Before Incremental	TotalRate Case Base	Day One Loading Applied	A&G Loading Applied
\$ 317.00	\$360.90	\$ 22.28	\$ 21.98
\$ 17.60	\$20.10	\$ 1.36	\$ 1.35
	\$0.00	\$ -	
\$ 4.48	\$4.80	\$ 0.35	
\$ 2.90	\$3.10	\$ 0.33	
\$ -		\$ -	
\$ 7.84	\$8.40	\$ 0.64	
\$ 9.06	\$9.80	\$ 0.55	
\$ 1.20	\$1.30	\$ 0.09	
\$ 360.08	\$408.40	\$25.60	\$ 23.00

6		2017	
Total loading		Day One Loading Applied	A&G Loading Applied
12.2%	88.4%	6.6%	6.5%
12.1%	4.9%	6.6%	6.5%
0.0%	0.0%		
6.7%	1.2%	7.1%	0.0%
6.7%	0.8%	7.1%	0.0%
0.0%	0.0%		
6.7%	2.1%	7.1%	0.0%
6.6%	2.4%	7.1%	0.0%
0.0%	0.3%	7.0%	0.0%
	95.2%	6.7%	6.0%

		2018		
d	Total Costs	Incremental	Incremental	
	Loaded to Capital La	Day One Loading Applied	A&G Loading Applied	
	And to Total Capital	to Total Capital	to Total Capital	
	\$ -	\$ -		
	\$ -	\$ -		
	\$ 23.00		\$ 23.70	
	\$ 25.60	\$ 24.90		
	\$ 48.60	\$ 24.90	\$ 23.70	

		2018		
Before Incrementall	TotalRate Case Base	Day One Loading Applied	Total Base	Before Incrementall
\$ 292.30	\$336.60	\$ 22.01	\$ 22.77	\$ 337.20
\$ 17.90	\$20.60	\$ 1.21	\$ 1.25	\$ 18.58
		\$ -		
\$ 4.60	\$5.00	\$ 0.31		\$ 4.70
\$ 4.28	\$4.60	\$ 0.19		\$ 2.97
\$ -		\$ -		\$ -
\$ 8.40	\$9.05	\$ 0.46		\$ 7.08
\$ 7.25	\$7.80	\$ 0.69		\$ 10.52
\$ 1.15	\$1.25	\$ 0.02		\$ 0.38
\$ 335.88	\$384.90	\$24.90	\$ 23.70	\$ 381.43

		2018		
Total loading	Total Base	Day One Loading Applied	A&G Loading Applie	Total loading
13.2%	87.5%	5.8%	6.0%	11.7%
13.2%	5.4%	5.8%	6.0%	11.7%
0.0%	0.0%			0.0%
7.1%	1.3%	5.9%	0.0%	5.9%
7.1%	1.2%	6.2%	0.0%	6.2%
0.0%	0.0%			0.0%
7.1%	2.4%	6.2%	0.0%	6.2%
7.1%	2.0%	6.2%	0.0%	6.2%
7.0%	0.3%	6.2%	0.0%	6.2%
	95.3%	5.8%	5.5%	

Total Costs	
Loaded to Capital Labor	
And to Total Capital	
\$	-
\$	-
\$	23.70
\$	24.90
\$	48.60

TotalRate Case Base	
	\$382.00
	\$21.00
	\$5.20
	\$3.15
	\$7.50
	\$11.15
	\$0.40
	\$430.40

Total Base	
	88.8%
	4.9%
	0.0%
	1.2%
	0.7%
	0.0%
	1.7%
	2.6%
	0.1%
	95.6%