



Control Number: 50944



Item Number: 492

Addendum StartPage: 0

SOAH DOCKET NO. 473-20-4709.WS
PUC DOCKET NO. 50944

2020 OCT 13 PM 12:33

APPLICATION OF MONARCH § BEFORE THE STATE OFFICE
UTILITIES I L.P. FOR AUTHORITY § OF
TO CHANGE RATES § ADMINISTRATIVE HEARINGS

MONARCH UTILITIES I L.P.'S RESPONSE TO OFFICE OF PUBLIC UTILITY COUNSEL'S FOURTH REQUEST FOR INFORMATION

To: Office of Public Utility Counsel (OPUC), by and through its attorney of record, Chris Ekoh, 1701 N. Congress Avenue, Suite 9-180 P.O. Box 12397, Austin, Texas 78711-2197.

Monarch Utilities I L.P. (Monarch) files its Responses to Office of Public Utility Counsel's Fourth Request for Information (RFI) to Monarch received on September 29, 2020. This response is timely filed. Pursuant to 16 Tex. Admin. Code (TAC) § 22.144(c)(2)(F), Monarch agrees and stipulates that all parties may treat the responses as if the answers were filed under oath.

Respectfully submitted,

**LLOYD GOSSELINK ROCHELLE
& TOWNSEND, P.C.**
816 Congress Avenue, Suite 1900
Austin, Texas 78701
(512) 322-5800
(512) 472-0532 (Fax)

/s/ William A. Faulk, III

LAMBETH TOWNSEND
ltownsend@lglawfirm.com
State Bar No. 20167500

WILLIAM A. FAULK, III
cfaulk@lglawfirm.com
State Bar No. 24075674

JAMIE L. MAULDIN
jlmauldin@lglawfirm.com
State Bar No. 24065694

REID BARNES
rbarnes@lglawfirm.com
State Bar No. 24101487

**ATTORNEYS FOR MONARCH UTILITIES I
L.P.**

CERTIFICATE OF SERVICE

I hereby certify that notice of the filing of this document was provided to all parties of record via electronic mail on October 13, 2020, in accordance with the Order Suspending Rules, issued in Project No. 50664.

/s/ William A. Faulk, III

WILLIAM A. FAULK, III

SOAH DOCKET NO. 473-20-4709.WS
PUC DOCKET NO. 50944

MONARCH'S RESPONSE TO
OPUC'S FOURTH RFI

OPUC 4-1 Please reference the Direct Testimony of Mujeeb Hafeez at 11:5–16. Please provide a copy of the short-term and the long-term incentive plans in effect: (a) during the Test Year; and (b) in 2020.

RESPONSE: The short-term incentive plan is intended to attract, motivate and retain talented and high performing employees who continue to help SouthWest achieve its values which include customer care, safety, and stewardship of the environment. The same short-term incentive plan was in effect during the Test Year and in 2020. The targets and goals vary by individual participant in the plan. While no formal plan document exists, short-term incentive plan target worksheets for each employee are completed annually. Refer to CONFIDENTIAL Attachment OPUC 4-1 for 2020 short-term incentive plan target worksheets for each employee included in adjusted test year costs. The worksheets include the short-term incentive plan goals and targets of each employee. The recorded test year was adjusted to reflect 2020 incentive compensation. As such, the 2020 short-term incentive plan target worksheets have been provided in this response.

This request as it relates to Monarch's long-term incentive plan is the subject of an outstanding objection filed by Monarch on October 6, 2020.

Prepared by: Mujeeb Hafeez, Monarch Utilities I L.P.
Sponsored by: Mujeeb Hafeez, Monarch Utilities I L.P.

**SOAH DOCKET NO. 473-20-4709.WS
PUC DOCKET NO. 50944**

**MONARCH'S RESPONSE TO
OPUC'S FOURTH RFI**

OPUC 4-2 Please reference the Direct Testimony of Mujeeb Hafeez at 22:8–14. Please provide a detailed accounting of the corporate costs assigned to Monarch that are not based on the three-factor allocation methodology.

RESPONSE: Please see Attachment OPUC 4-2 for a detailed accounting of the corporate costs assigned to Monarch that are not based on the three-factor allocation methodology.

Prepared by: Mujeeb Hafeez, Monarch Utilities I L.P.
Sponsored by: Mujeeb Hafeez, Monarch Utilities I L.P.

Sum of Amount in local currency

G/L Account	Acct Description	NARUC Account	Total
611020	Medical Premium Employer	604/704	(25,091.79)
611051	Dental Premiums & Claims	604/704	97,926.73
611060	Ancillary Benefits Expense	604/704	85,311.03
613100	Workers Compensation	658/758	91,610.50
655030	Insurance Expense - Employment Practices Liab	659/759	8,646.00
655040	Insurance Expense - Fees	659/759	25,225.64
655050	Insurance Expense - General Liability	659/759	86,713.43
655060	Insurance Expense - Other	659/759	8,355.53
655070	Insurance Expense - Property	659/759	175,297.57
655075	Insurance Expense - Contractors/Prem Pollution	659/759	23,483.55
655080	Insurance Expense - Umbrella	657/757	52,339.77
655090	Insurance Expense - Vehicle	656/756	85,207.08
Grand Total			715,025.04

SOAH DOCKET NO. 473-20-4709.WS
PUC DOCKET NO. 50944

MONARCH'S RESPONSE TO
OPUC'S FOURTH RFI

OPUC 4-3 Please reference the Rate Filing Package (“RFP”), Schedule IV-6. Please provide a detailed listing of all adjustments included in the \$2,063,800 shared cost adjustment to Test Year affiliate expenses and reconcile these amounts to the specific line-item adjustments on Schedule II-D-1.2(W); Schedule II-D-1.2(S); and Schedule II-D-1.2(SH).

RESPONSE: Please reference WP-IV-2(2) in the RFP for the detailed adjustments by NARUC account. These shared allocations are all included in the totals on Schedule II-D-1.2 (W) and line numbers 44 through 47.

Amounts included in Schedule II-D-1.2 (W):

<u>Line No</u>	<u>Adjustment</u>	<u>Amount</u>
44	STM Transfer Ni Texas	\$378,868
45	STM Transfer Water Services	\$1,633,456
46	Normalize SW Utility	\$20,201
47	Normalize Inverness Point	\$31,275

Prepared by: Edward Taussig, Monarch Utilities I L.P.
Sponsored by: Edward Taussig, Monarch Utilities I L.P.

SOAH DOCKET NO. 473-20-4709.WS
PUC DOCKET NO. 50944

MONARCH'S RESPONSE TO
OPUC'S FOURTH RFI

OPUC 4-4 Please reference the RFP, Schedule II-D-1.1. Please provide a detailed description of the changes in accounting policies related to the manner in which salaries and other employee-related expenses are recorded by account.

RESPONSE: The direct testimony of Edward Taussig, on page 5 lines 12-18, states the following:

“In response to the Commission’s request for increased transparency of cost allocations, TXU reorganized its organization structure to house the majority of employees in Monarch. Monarch contains employees in two general classifications: (a) Field Operations employees handling day-to-day field work in utility service areas; and (b) Business Operations employees providing administrative, customer service, accounting, regulatory, legal, and engineering functions supporting the business.”

As stated, employee costs, which include salaries and employee-related expenses, are now primarily housed in Monarch versus being previously housed in the Texas affiliate SWWC Utilities, Inc. The manner of how employee and employee related costs are charged was not modified as a part of this reorganization. Please see the direct testimony of Edward Taussig, on page 6 lines 6-9, describing that field operations employee costs are either charged directly by work order or allocated across the Texas Utilities business unit based on AWWA meter equivalents. Additionally, business operations employee costs are allocated across the Texas business unit based on AWWA meter equivalents. Please refer to the cost allocation manual in Schedule IV-4.1 and details on the Monarch shared and Parent Company costs in Schedule IV-9 in the rate filing package.

Prepared by: Kent Cauley, Monarch Utilities I L.P.
Sponsored by: Edward Taussig, Monarch Utilities I L.P.

**SOAH DOCKET NO. 473-20-4709.WS
PUC DOCKET NO. 50944**

**MONARCH'S RESPONSE TO
OPUC'S FOURTH RFI**

OPUC 4-5 Please reference the RFP, Schedule II-D-1.1. Please confirm or deny that affiliated salaries are currently reported in Account 601 for water and Account 701 for wastewater. If deny, please provide a detailed explanation of the significant increase in Accounts 601 and 701 during the Test Year when compared to prior years.

RESPONSE: Deny. There are no affiliate salaries currently reported in account 601 or 701. The increase in accounts 601 and 701 during the test year when compared to prior years is due to a change in where employee costs were housed (Please see generally the Direct Testimony of Edward Taussig). Many employees that were previously housed in SWWC are now housed in Monarch.

Prepared by: Brittany Robbins, Monarch Utilities I L.P.
Sponsored by: Brian Bahr, Monarch Utilities I L.P.

SOAH DOCKET NO. 473-20-4709.WS
PUC DOCKET NO. 50944

MONARCH'S RESPONSE TO
OPUC'S FOURTH RFI

OPUC 4-6 Please reference the Company's response to OPUC RFI No. 1-6. Please indicate the system location of the 18 non-residential on-site lift stations. Include in your response, by system, the number of residential on-site wastewater grinder / sewage stations.

RESPONSE: Please see Attachment OPUC 4-6 for the number and system locations of on-site wastewater grinder/sewage stations. In review, Monarch has determined there are actually 20 non-residential grinder pump stations. The system locations of the active non-residential (commercial or multifamily) on-site lift stations are:

- Holiday Villages of Medina (HVOL): 2 - RV Park, Condominium Group
- Holiday Villages of Fork (HVOF): 9 - Sales Office, RV Park (3 grinder pump units), HOA Offices, 2 Condominium Groups, Swimming Pool Restrooms, Club House
- Cherokee Shores (CESH): 1 - Commercial Establishment
- Decker Hills (DHIC): 3 - Commercial Establishments
- Pinnacle Club (PINP): 3 – Clubhouse, Cart Barn, Maintenance Barn
- Tanglewood (TGWD): 2 – Marina, Resort

Prepared by: George Freitag, Monarch Utilities I L.P.
Sponsored by: George Freitag, Monarch Utilities I L.P.

OPUC 4-6

MONARCH DISTRICTS WITH ON-SITE WW LIFT STATIONS

WASTEWATER DISTRICT		COUNTY	COMMERCIAL or MULTIFAMILY *	RESIDENTIAL ON-SITE *
BDES	Beachwood Estates	Henderson		118
BWCV	Blue Water Cove	San Jacinto		
CESH	Cherokee Shores	Henderson	1	688
DHIC/CSGN	Decker Hills/Champions Glen	Montgomery	3	
HRPT	Harbor Point	Trinity		342
HVOF	Holiday Villages of Fork	Wood	9	438
HVOL/HNCV	Holiday Villages of Livingston/Hidden Cove	San Jacinto		615
LMSH/HVOM	Lake Medina Shores/Holiday Vill of Medina	Bandera	2	330
PINP	Pinnacle Club	Henderson	3	301
TGWD	Tanglewood	Grayson	2	
TRTE	Tower Terrace	Chambers		
VSWK	Villas of Willowbrook	Harris		
			20	2832

* includes Active and Inactive Units

SOAH DOCKET NO. 473-20-4709.WS
PUC DOCKET NO. 50944

MONARCH'S RESPONSE TO
OPUC'S FOURTH RFI

OPUC 4-7 Please reference the Company's response to OPUC RFI No. 1-10. Please provide further explanation regarding the Trademark Prosecution services by Zuber Lawler & Del Duca, LLP, including how these services are beneficial to direct customer utility service provision.

RESPONSE: Zuber Lawler & Del Duca, LLP provides the intellectual property/patent prosecution services for SouthWest Water Company ("SouthWest). Generally, the primary reasons for getting a service mark registered with the U.S. Patent & Trademark Office is to avoid confusion in the event someone else starts using a similar mark in the future and to protect the registered user's right and ability to continue using the mark. The service marks are critical in ensuring brand consistency in order to solidify SouthWest and its subsidiaries' brand design work as credible. By doing so, Monarch customers can know and trust any documents with these marks are in fact from SouthWest and/or its subsidiaries. Any use of these service marks by anyone other than SouthWest can be easily debunked as fraudulent or misuse.

Prepared by: Mujeeb Hafeez, Monarch Utilities I L.P.
Sponsored by: Mujeeb Hafeez, Monarch Utilities I L.P.

**SOAH DOCKET NO. 473-20-4709.WS
PUC DOCKET NO. 50944**

**MONARCH'S RESPONSE TO
OPUC'S FOURTH RFI**

OPUC 4-8 Please reference the Company's response to OPUC RFI No. 1-16. Please provide the following information:

- a. Further explanation of the services provided by Korn Ferry and how these services are beneficial to direct customer utility service provision; and
- b. Further explanation of the payment to Columbia University, including the reason(s) and rationale for the payment made. Include in your response an explanation of how this payment is beneficial to direct customer utility service provision.

RESPONSE:

- a. Like many other organizations, SouthWest has an aging workforce and will have retirements occurring at the senior levels in the next one to three years. SouthWest partnered with Korn Ferry, a global leader in people planning, on their Leadership Succession Program and identified participants, of which 50% were diversity employees, to go through their hands-on Succession Development Program. The program entailed leadership assessments, an onsite interactive program, followed up by individual development plans and a six-month coaching program. SouthWest continues to partner with Korn Ferry to develop its workforce through various other program offerings as well.

These programs benefit customers because SouthWest is more readily able to retain key senior level critical talent that can step into higher level roles. Retaining this key talent helps enable an orderly transition of leadership as well as a planned institutional knowledge transfer. Having consistency and low turnover in senior leadership roles ensures SouthWest can continue meeting the needs of customers, including ensuring the safe and reliable provision of utility services and identifying and implementing operational efficiencies. In addition, having diverse participation in leadership training demonstrates SouthWest's commitment to reflect the diverse communities it serves.

- b. The payments made to Columbia University are for the tuition for the Executive Masters in Business Administration ("MBA") program for SouthWest's Director of Planning & Treasury. The Columbia MBA is one of the top MBA programs in the US, and the completion of the program will benefit Monarch customers in several ways:
 - Strategy development – The Director of Planning & Treasury is responsible for the corporate strategy process; completion of the program will facilitate better strategy and planning and focus on improvement of customer service and the customer experience.

**SOAH DOCKET NO. 473-20-4709.WS
PUC DOCKET NO. 50944**

**MONARCH'S RESPONSE TO
OPUC'S FOURTH RFI**

- Capital allocation – an outcome of the strategy process is allocation of capital to strategic initiatives; completion of the program will provide additional methods for considering allocation of capital to programs for customer service and the customer experience.

Prepared by: Mujeeb Hafeez, Monarch Utilities I L.P.
Sponsored by: Mujeeb Hafeez, Monarch Utilities I L.P.

**SOAH DOCKET NO. 473-20-4709.WS
PUC DOCKET NO. 50944**

**MONARCH'S RESPONSE TO
OPUC'S FOURTH RFI**

OPUC 4-9 Please reference the RFP, Schedule IV-9, and the Company's response to OPUC RFI No. 1-23. Please provide the percentages used for Monarch Shared Cost Allocation based on 2018 Year End Meter Equivalents and 2019 Year End Meter Equivalents. Please provide the source data underlying these percentages.

RESPONSE: Please see Attachment OPUC 4-9 for the percentages by meter equivalent and source data related to meter equivalents.

Prepared by: Edward Taussig, Monarch Utilities I L.P.
Sponsored by: Edward Taussig, Monarch Utilities I L.P.

ment OPUC 4-9
 h Utilities I L.P.
 No. 50944
 Year Ending 12/31/2019
 By: Edward Taussig

	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)	(t)	(u)	(v)	(w)
1	2019																						
2	Based on Dec 31, 2018 Year-end Meter Equivalents																						
3	Senders Receivers - Rounded to nearest one hundredth of a percent																						
4	Administrative TXU	30200327	TXU ADMIN	41.91%	7.08%	1.59%	3.34%	5.00%	5.08%	10.99%	11.81%	3.31%	0.21%	0.30%	0.90%	0.81%	0.08%	0.46%	0.40%	1.92%	1.42%	3.39%	100.00%
5	Customer Service TXU	30200328	TXU CS	41.91%	7.08%	1.59%	3.34%	5.00%	5.08%	10.99%	11.81%	3.31%	0.21%	0.30%	0.90%	0.81%	0.08%	0.46%	0.40%	1.92%	1.42%	3.39%	100.00%
6	Accounting TXU	30200329	TXU A-C	41.91%	7.08%	1.59%	3.34%	5.00%	5.08%	10.99%	11.81%	3.31%	0.21%	0.30%	0.90%	0.81%	0.08%	0.46%	0.40%	1.92%	1.42%	3.39%	100.00%
7	East Shared 30200301	30200301	TXU SHARED	78.32%	15.21%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.18%	1.03%	0.90%	4.36%	0.00%	0.00%	100.00%
8	Conroe Shared 30200097	30200097	TXU 8 OPS	68.89%	30.43%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.68%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
9	Benbrook Shared 30200095	30200095	TXU 6 OPS	86.90%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	13.10%	0.00%	0.00%	100.00%
0	Mabank Shared 30200096	30200096	TXU 7 OPS	76.36%	23.64%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
1	Pottsboro Shared 30200094	30200094	TXU 5 OPS	79.91%	4.99%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	8.08%	7.02%	0.00%	0.00%	0.00%	100.00%
2	West Mgmt	30200333	TXU SHARED	13.14%	0.66%	2.85%	5.98%	8.95%	9.09%	19.68%	21.15%	5.93%	0.38%	0.53%	1.60%	1.45%	0.00%	0.00%	0.00%	0.00%	2.53%	6.08%	100.00%
3	Austin Monarch Ops	30200330	TXU 1 OPS	13.21%	0.00%	0.00%	0.00%	10.44%	10.58%	23.39%	25.68%	6.58%	0.47%	0.57%	1.56%	1.35%	0.00%	0.00%	0.00%	0.00%	0.00%	6.17%	100.00%
4	SA Monarch Ops	30200331	TXU 3 OPS	16.63%	4.56%	19.76%	41.47%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	17.58%	0.00%	100.00%
5																							
6																							
7																							
8	2020																						
9	Based on Dec 31, 2019 Year-end Meter Equivalents																						
0	Senders Receivers - Rounded to nearest one hundredth of a percent																						
1	Administrative TXU	30200327	TXU ADMIN	40.09%	6.84%	1.50%	3.13%	4.99%	5.20%	9.97%	11.08%	3.32%	0.20%	0.96%	0.88%	0.44%	0.38%	1.84%	1.33%	3.62%	4.23%	100.00%	
2	Customer Service TXU	30200328	TXU CS	40.09%	6.84%	1.50%	3.13%	4.99%	5.20%	9.97%	11.08%	3.32%	0.20%	0.96%	0.88%	0.44%	0.38%	1.84%	1.33%	3.62%	4.23%	100.00%	
3	Accounting TXU	30200329	TXU A-C	40.09%	6.84%	1.50%	3.13%	4.99%	5.20%	9.97%	11.08%	3.32%	0.20%	0.96%	0.88%	0.44%	0.38%	1.84%	1.33%	3.62%	4.23%	100.00%	
4	Engineering TXU	30200332	TXU ENG	40.09%	6.84%	1.50%	3.13%	4.99%	5.20%	9.97%	11.08%	3.32%	0.20%	0.96%	0.88%	0.44%	0.38%	1.84%	1.33%	3.62%	4.23%	100.00%	
5	East Shared 30200301	30200301	TXU SHARED	78.35%	15.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.05%	0.90%	4.37%	0.00%	0.00%	0.00%	100.00%
6	Conroe Shared 30200097	30200097	TXU 8 OPS	69.60%	30.40%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
7	Benbrook Shared 30200095	30200095	TXU 6 OPS	86.91%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	13.09%	0.00%	0.00%	100.00%
8	Mabank Shared 30200096	30200096	TXU 7 OPS	75.83%	24.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%
9	Pottsboro Shared 30200094	30200094	TXU 5 OPS	79.45%	5.36%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	8.17%	7.02%	0.00%	0.00%	0.00%	0.00%	100.00%
0	West Mgmt	30200333	TXU SHARED	12.26%	0.67%	2.60%	5.41%	8.62%	8.98%	17.23%	19.13%	5.73%	0.34%	1.65%	1.53%	0.00%	0.00%	0.00%	2.30%	6.24%	7.31%	100.00%	
1	Austin Monarch Ops	30200330	TXU 1 OPS	22.31%	0.00%	0.00%	0.00%	19.32%	20.11%	0.00%	0.00%	0.00%	0.77%	3.70%	3.42%	0.00%	0.00%	0.00%	0.00%	13.99%	16.38%	100.00%	
2	SA Monarch Ops	30200331	TXU 3 OPS	17.21%	5.05%	19.58%	40.78%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	17.38%	0.00%	0.00%	100.00%	

Attachment OPUC 4-9

Monarch Utilities I L P.

Docket No 50944

Test Year Ending 12/31/2019 December 31, 2018 Meter Equivalents

Witness Edward Taussig

Line No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	District	County	Utility	Region	Pipe Size	Water or WW	Line Item Type	# of Installation Numbers	Equivalency Factor	Meter Equivalents
1	AAVA	Wise	Monarch	East	5/8"	Water	Water Base	136	1	136
2	AAVA	Wise	Monarch	East	3/4"	Water	Water Base	7	1.5	10.5
3	AAVA	Wise	Monarch	East	1"	Water	Water Base	6	2.5	15
4	ADSH	Hood	Monarch	East	5/8"	Water	Water Base	422	1	422
5	BDES	Henderson	Monarch	East	5/8"	WW	Sewer Base	396	1	396
6	BDES	Henderson	Monarch	East	5/8"	Water	Water Base	466	1	466
7	BDES	Henderson	Monarch	East	3/4"	WW	Sewer Base	0	1.5	0
8	BDES	Henderson	Monarch	East	3/4"	Water	Water Base	0	1.5	0
9	BDES	Henderson	Monarch	East	1"	WW	Sewer Base	1	2.5	2.5
10	BDES	Henderson	Monarch	East	1"	Water	Water Base	1	2.5	2.5
11	BDHR	Henderson	Monarch	East	5/8"	Water	Water Base	34	1	34
12	BKHS	Tarrant	Monarch	East	5/8"	Water	Water Base	13	1	13
13	BVHL	Bexar	Water Services	West	5/8"	Water	Water Base	65	1	65
14	BWCV	San Jacinto	Monarch	East	5/8"	WW	Sewer Base	31	1	31
15	BWCV	San Jacinto	Monarch	East	5/8"	Water	Water Base	33	1	33
16	CALE	Van Zandt	Monarch	East	5/8"	Water	Water Base	663	1	663
17	CASE	Kendall	Water Services	West	5/8"	Water	Water Base	99	1	99
18	CDSP	Kerr	Wiedefeld	West	5/8"	Water	Water Base	47	1	47
19	CEPT	Kerr	Wiedefeld	West	5/8"	Water	Water Base	54	1	54
20	CESH	Henderson	Monarch	East	5/8"	WW	Sewer Base	636	1	636
21	CESH	Henderson	Monarch	East	5/8"	Water	Water Base	657	1	657
22	CESH	Henderson	Monarch	East	3/4"	WW	Sewer Base	2	1.5	3
23	CESH	Henderson	Monarch	East	3/4"	Water	Water Base	2	1.5	3
24	CGTE	San Jacinto	Monarch	East	5/8"	Water	Water Base	120	1	120
25	CHLE	Wise	Ni Texas	East	5/8"	Water	Water Base	266	1	266
26	CHPO	Hood	Monarch	East	5/8"	Water	Water Base	461	1	461
27	CHPO	Hood	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
28	CLSP	Montgomery	Monarch	East	5/8"	Water	Water Base	84	1	84
29	CNES	Henderson	Monarch	East	5/8"	Water	Water Base	735	1	735
30	CNES	Henderson	Monarch	East	1"	Water	Water Base	4	2.5	10
31	CNES	Henderson	Monarch	East	2"	Water	Water Base	1	8	8
32	COCV	Hood	Monarch	East	5/8"	Water	Water Base	467	1	467
33	COCV	Hood	Monarch	East	3/4"	Water	Water Base	2	1.5	3
34	COCV	Hood	Monarch	East	1"	Water	Water Base	0	2.5	0
35	COOL	Bexar	Water Services	West	5/8"	Water	Water Base	314	1	314
36	COOL	Bexar	Water Services	West	3/4"	Water	Water Base	2	1.5	3
37	COOL	Bexar	Water Services	West	1"	Water	Water Base	2	2.5	5
38	COOL	Bexar	Water Services	West	1 1/2"	Water	Water Base	1	5	5
39	CROW	Johnson	Monarch	East	5/8"	Water	Water Base	618	1	618
40	CRVY	San Jacinto	Monarch	East	5/8"	Water	Water Base	64	1	64
41	CSGN	Montgomery	Monarch	East	5/8"	WW	Sewer Base	60	1	60
42	CSGN	Montgomery	Monarch	East	5/8"	Water	Water Base	60	1	60
43	CSWD	Polk	Monarch	East	5/8"	Water	Water Base	31	1	31
44	CSWD	Polk	Monarch	East	1"	Water	Water Base	1	2.5	2.5
45	CTFT	Matagorda	Monarch	East	5/8"	Water	Water Base	89	1	89
46	CTFT	Matagorda	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
47	CYBD	Bexar	Water Services	West	5/8"	Water	Water Base	249	1	249
48	CYBD	Bexar	Water Services	West	3/4"	Water	Water Base	1	1.5	1.5
49	CYBD	Bexar	Water Services	West	1"	Water	Water Base	1	2.5	2.5
50	CYRA	Wise	Ni Texas	East	5/8"	Water	Water Base	124	1	124
51	CYWD	Polk	Monarch	East	5/8"	Water	Water Base	37	1	37
52	DALH	Henderson	Monarch	East	5/8"	Water	Water Base	44	1	44
53	DCES	Denton	Monarch	East	5/8"	Water	Water Base	108	1	108
54	DCES	Denton	Monarch	East	1"	Water	Water Base	4	2.5	10
55	DHIC	Montgomery	Monarch	East	5/8"	WW	Sewer Base	967	1	967
56	DHIC	Montgomery	Monarch	East	3/4"	WW	Sewer Base	1	1.5	1.5
57	DHIC	Montgomery	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
58	DHIC	Montgomery	Monarch	East	5/8"	Water	Water Base	1155	1	1155
59	DHIC	Montgomery	Monarch	East	1"	Water	Water Base	1	2.5	2.5
60	DHIC	Montgomery	Monarch	East	1 1/2"	WW	Sewer Base	2	5	10
61	DHIC	Montgomery	Monarch	East	1 1/2"	Water	Water Base	2	5	10
62	DHIC	Montgomery	Monarch	East	3"	WW	Sewer Base	1	15	15
63	DHIC	Montgomery	Monarch	East	3"	Water	Water Base	1	15	15
64	EDRR	Bandera	Diamond	West	5/8"	Water	Water Base	139	1	139
65	FCAD	Johnson	Monarch	East	5/8"	Water	Water Base	60	1	60
66	GDOK	Guadalupe	Water Services	West	5/8"	Water	Water Base	84	1	84
67	GDOK	Guadalupe	Water Services	West	3/4"	Water	Water Base	2	1.5	3
68	GDOK	Guadalupe	Water Services	West	1"	Water	Water Base	1	2.5	2.5
69	GNAC	Polk	Monarch	East	5/8"	Water	Water Base	33	1	33
70	GNAS	Parker	Monarch	East	5/8"	Water	Water Base	91	1	91
71	GSPT	San Jacinto	Monarch	East	5/8"	Water	Water Base	154	1	154
72	GSPT	San Jacinto	Monarch	East	3/4"	Water	Water Base	3	1.5	4.5
73	GYAC	Hood	Monarch	East	5/8"	Water	Water Base	87	1	87
74	HAWR	Henderson	Monarch	East	5/8"	Water	Water Base	532	1	532
75	HAWR	Henderson	Monarch	East	1"	Water	Water Base	5	2.5	12.5
76	HAWR	Henderson	Monarch	East	1 1/2"	Water	Water Base	1	5	5
77	HBES	Hood	Monarch	East	5/8"	Water	Water Base	75	1	75
78	HBUC	Travis	Hornsby Bend	West	5/8"	WW	Sewer Base	2964	1	2964
79	HBUC	Travis	Hornsby Bend	West	5/8"	Water	Water Base	2882	1	2882
80	HBUC	Travis	Hornsby Bend	West	3/4"	WW	Sewer Base	5	1.5	7.5
81	HBUC	Travis	Hornsby Bend	West	3/4"	Water	Water Base	5	1.5	7.5
82	HBUC	Travis	Hornsby Bend	West	1"	WW	Sewer Base	3	2.5	7.5
83	HBUC	Travis	Hornsby Bend	West	1"	Water	Water Base	5	2.5	12.5
84	HBUC	Travis	Hornsby Bend	West	1 1/2"	Water	Water Base	1	5	5
85	HBUC	Travis	Hornsby Bend	West	2"	WW	Sewer Base	2	8	16
86	HBUC	Travis	Hornsby Bend	West	2"	Water	Water Base	3	8	24
87	HBUC	Travis	Hornsby Bend	West	3"	WW	Sewer Base	4	15	60
88	HBUC	Travis	Hornsby Bend	West	3"	Water	Water Base	5	15	75
89	HEPK	Kerr	Wiedefeld	West	5/8"	Water	Water Base	28	1	28
90	HLDL	Kerr	Wiedefeld	West	5/8"	Water	Water Base	73	1	73
91	HLOC	Wise	Ni Texas	East	5/8"	Water	Water Base	232	1	232
92	HNCV	San Jacinto	Monarch	East	5/8"	WW	Sewer Base	0	1	0
93	HNCV	San Jacinto	Monarch	East	5/8"	Water	Water Base	139	1	139
94	HNLS	Montgomery	Monarch	East	5/8"	Water	Water Base	139	1	139

Attachment OPUC 4-9

Monarch Utilities I L P.

Docket No. 50944

Test Year Ending 12/31/2019 December 31, 2018 Meter Equivalents

Witness: Edward Taussig

Line No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
96	HNLS	Montgomery	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
97	HNLS	Montgomery	Monarch	East	1"	Water	Water Base	2	2.5	5
98	HRPT	Trinity	Monarch	East	5/8"	WW	Sewer Base	267	1	267
99	HRPT	Trinity	Monarch	East	5/8"	Water	Water Base	311	1	311
100	HRPT	Trinity	Monarch	East	2"	WW	Sewer Base	0	8	0
101	HRPT	Trinity	Monarch	East	2"	Water	Water Base	0	8	0
102	HUCL	Travis	Huntington	West	5/8"	Water	Water Base	125	1	125
103	HUCL	Travis	Huntington	West	1"	Water	Water Base	1	2.5	2.5
104	HVOF	Wood	Monarch	East	5/8"	WW	Sewer Base	364	1	364
105	HVOF	Wood	Monarch	East	5/8"	Water	Water Base	376	1	376
106	HVOF	Wood	Monarch	East	3/4"	WW	Sewer Base	3	1.5	4.5
107	HVOF	Wood	Monarch	East	3/4"	Water	Water Base	3	1.5	4.5
108	HVOF	Wood	Monarch	East	1"	WW	Sewer Base	4	2.5	10
109	HVOF	Wood	Monarch	East	1"	Water	Water Base	4	2.5	10
110	HVOL	San Jacinto	Monarch	East	5/8"	WW	Sewer Base	471	1	471
111	HVOL	San Jacinto	Monarch	East	5/8"	Water	Water Base	511	1	511
112	HVOL	San Jacinto	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
113	HVOL	San Jacinto	Monarch	East	1"	WW	Sewer Base	2	2.5	5
114	HVOL	San Jacinto	Monarch	East	1"	Water	Water Base	2	2.5	5
115	HVOL	San Jacinto	Monarch	East	2"	WW	Sewer Base	0	8	0
116	HVOL	San Jacinto	Monarch	East	2"	Water	Water Base	0	8	0
117	HVOM	Bandera	Monarch	West	5/8"	WW	Sewer Base	216	1	216
118	HVOM	Bandera	Monarch	West	5/8"	Water	Water Base	239	1	239
119	HVOM	Bandera	Monarch	West	1"	WW	Sewer Base	2	2.5	5
120	HVOM	Bandera	Monarch	West	1"	Water	Water Base	2	2.5	5
121	HYSS	Brazoria	Monarch	East	5/8"	Water	Water Base	141	1	141
122	IHRH	Marion	Monarch	East	5/8"	Water	Water Base	92	1	92
123	INHE	Tyler	Monarch	East	5/8"	Water	Water Base	647	1	647
124	INPT	Travis	Inverness	West	5/8"	Water	Water Base	173	1	173
125	INPT	Travis	Inverness	West	3/4"	Water	Water Base	2	1.5	3
126	INPT	Travis	Inverness	West	1"	Water	Water Base	1	2.5	2.5
127	LMSH	Bandera	Monarch	West	5/8"	Water	Water Base	549	1	549
128	LMSH	Bandera	Monarch	West	3/4"	Water	Water Base	9	1.5	4.5
129	LMSH	Bandera	Monarch	West	2"	Water	Water Base	1	8	8
130	LNYY	Polk	Monarch	East	5/8"	Water	Water Base	36	1	36
131	LOLP	Henderson	Monarch	East	5/8"	Water	Water Base	78	1	78
132	LYHR	Smith	Monarch	East	5/8"	Water	Water Base	285	1	285
133	LYHR	Smith	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
134	LYHR	Smith	Monarch	East	1"	Water	Water Base	1	2.5	2.5
135	MBES	Hood	Monarch	East	5/8"	Water	Water Base	121	1	121
136	MDTX	Travis	Mid Tex	West	5/8"	WW	Sewer Base	165	1	165
137	MDTX	Travis	Mid Tex	West	5/8"	Water	Water Base	168	1	168
138	MDTX	Travis	Mid Tex	West	3/4"	WW	Sewer Base	213	1.5	319.5
139	MDTX	Travis	Mid Tex	West	3/4"	Water	Water Base	217	1.5	325.5
140	MDTX	Travis	Mid Tex	West	1"	WW	Sewer Base	1	2.5	2.5
141	MDTX	Travis	Mid Tex	West	1"	Water	Water Base	4	2.5	10
142	MDTX	Travis	Mid Tex	West	1 1/2"	Water	Water Base	4	5	20
143	MDTX	Travis	Mid Tex	West	3"	Water	Water Base	1	15	15
144	MRES	Tarrant	Monarch	East	5/8"	Water	Water Base	37	1	37
145	MRES	Tarrant	Monarch	East	1"	Water	Water Base	15	2.5	37.5
146	MSCV	Henderson	Monarch	East	5/8"	Water	Water Base	73	1	73
147	MSCV	Henderson	Monarch	East	1"	Water	Water Base	1	2.5	2.5
148	MXHS	Johnson	Monarch	East	5/8"	Water	Water Base	1135	1	1135
149	MXHS	Johnson	Monarch	East	3/4"	Water	Water Base	2	1.5	3
150	NRES	Johnson	Monarch	East	5/8"	Water	Water Base	99	1	99
151	OAKV	Gillespie	Diamond	West	5/8"	Water	Water Base	62	1	62
152	OAKV	Gillespie	Diamond	West	3/4"	Water	Water Base	1	1.5	1.5
153	OKNT	Bexar	Water Services	West	5/8"	Water	Water Base	342	1	342
154	OKTE	Polk	Monarch	East	5/8"	Water	Water Base	121	1	121
155	OKVN	Comal	Water Services	West	5/8"	Water	Water Base	641	1	641
156	OKVN	Comal	Water Services	West	3/4"	Water	Water Base	2	1.5	3
157	OKVN	Comal	Water Services	West	1"	Water	Water Base	3	2.5	7.5
158	OKWD	Montgomery	Monarch	East	5/8"	Water	Water Base	49	1	49
159	ORES	Kerr	Wiedefeld	West	5/8"	Water	Water Base	40	1	40
160	OTSH	Hood	Monarch	East	5/8"	Water	Water Base	998	1	998
161	OTSH	Hood	Monarch	East	1"	Water	Water Base	2	2.5	5
162	PAAD	Denton	Monarch	East	5/8"	Water	Water Base	47	1	47
163	PHPS	Polk	Monarch	East	5/8"	Water	Water Base	59	1	59
164	PHPS	Polk	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
165	PIHR	Marion	Monarch	East	5/8"	Water	Water Base	290	1	290
166	PINP	Henderson	Monarch	East	5/8"	WW	Sewer Base	279	1	279
167	PINP	Henderson	Monarch	East	5/8"	Water	Water Base	292	1	292
168	PINP	Henderson	Monarch	East	3/4"	WW	Sewer Base	5	1.5	7.5
169	PINP	Henderson	Monarch	East	3/4"	Water	Water Base	5	1.5	7.5
170	PINP	Henderson	Monarch	East	1"	WW	Sewer Base	3	2.5	7.5
171	PINP	Henderson	Monarch	East	1"	Water	Water Base	3	2.5	7.5
172	PINP	Henderson	Monarch	East	1 1/2"	WW	Sewer Base	1	5	5
173	PINP	Henderson	Monarch	East	1 1/2"	Water	Water Base	1	5	5
174	PLCK	Kendall	Wiedefeld	West	5/8"	Water	Water Base	37	1	37
175	PMCK	Hays	Monarch	West	5/8"	Water	Water Base	2238	1	2238
176	PMCK	Hays	Monarch	West	3/4"	Water	Water Base	15	1.5	22.5
177	PMCK	Hays	Monarch	West	1"	Water	Water Base	42	2.5	105
178	PMCK	Hays	Monarch	West	1 1/2"	Water	Water Base	7	5	35
179	PMCK	Hays	Monarch	West	2"	Water	Water Base	10	8	80
180	PMCK	Hays	Monarch	West	3"	Water	Water Base	4	15	60
181	PMCK	Hays	Monarch	West	4"	Water	Water Base	1	25	25
182	PMCK	Hays	Monarch	West	6"	Water	Water Base	1	50	50
183	PMCK	Hays	Monarch	West	8"	Water	Water Base	4	80	320
184	PSAS	Polk	Monarch	East	5/8"	Water	Water Base	20	1	20
185	PSAS	Polk	Monarch	East	2"	Water	Water Base	1	8	8
186	PTSH	Smith	Monarch	East	5/8"	Water	Water Base	252	1	252
187	REIN	Johnson	Monarch	East	5/8"	Water	Water Base	146	1	146
188	RIMR	Comal	Diamond	West	5/8"	Water	Water Base	333	1	333
189	RIMR	Comal	Diamond	West	3/4"	Water	Water Base	2	1.5	3
190	RIMR	Comal	Diamond	West	1"	Water	Water Base	5	2.5	12.5

Attachment OPUC 4-9
 Monarch Utilities I L P
 Docket No. 50944
 Test Year Ending 12/31/2019 December 31, 2018 Meter Equivalents
 Witness Edward Taussig

Line No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
191	ROBS	Hood	Monarch	East	5/8"	Water	Water Base	143	1	143
192	ROOK	Hood	Monarch	East	5/8"	Water	Water Base	71	1	71
193	RORH	Hays	Monarch	West	5/8"	Water	Water Base	106	1	106
194	RPEA	Grayson	Monarch	East	5/8"	Water	Water Base	78	1	78
195	RPEA	Grayson	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
196	RPEA	Grayson	Monarch	East	1"	Water	Water Base	1	2.5	2.5
197	RPEB	Grayson	Monarch	East	5/8"	Water	Water Base	43	1	43
198	RPEB	Grayson	Monarch	East	1"	Water	Water Base	1	2.5	2.5
199	RTGC	Grayson	Monarch	East	5/8"	Water	Water Base	508	1	508
200	RTGC	Grayson	Monarch	East	1"	Water	Water Base	8	2.5	20
201	RTGC	Grayson	Monarch	East	2"	Water	Water Base	2	8	16
202	RVBD	Bandera	Diamond	West	5/8"	Water	Water Base	144	1	144
203	RVBD	Bandera	Diamond	West	3/4"	Water	Water Base	1	1.5	1.5
204	RYCK	Medina	Wiedenfelf	West	5/8"	Water	Water Base	39	1	39
205	RYWD	Liberty	Monarch	East	5/8"	Water	Water Base	80	1	80
206	RYWD	Liberty	Monarch	East	1"	Water	Water Base	2	2.5	5
207	SABR	Wise	Ni Texas	East	5/8"	Water	Water Base	144	1	144
208	SDCE	Johnson	Monarch	East	5/8"	Water	Water Base	263	1	263
209	SDSH	Grayson	Monarch	East	5/8"	Water	Water Base	614	1	614
210	SDSH	Grayson	Monarch	East	1"	Water	Water Base	1	2.5	2.5
211	SDSH	Grayson	Monarch	East	2"	Water	Water Base	1	8	8
212	SGCH	Bexar	Water Services	West	5/8"	Water	Water Base	155	1	155
213	SGCH	Bexar	Water Services	West	3/4"	Water	Water Base	1	1.5	1.5
214	SGCH	Bexar	Water Services	West	1"	Water	Water Base	1	2.5	2.5
215	SGCH	Bexar	Water Services	West	1 1/2"	Water	Water Base	3	5	15
216	SGCH	Bexar	Water Services	West	2"	Water	Water Base	1	8	8
217	SHE5	San Jacinto	Monarch	East	5/8"	Water	Water Base	18	1	18
218	SHLN	Johnson	Ni Texas	East	5/8"	Water	Water Base	242	1	242
219	SNAS	Johnson	Monarch	East	5/8"	Water	Water Base	8	1	8
220	SNHL	Kerr	Wiedenfelf	West	5/8"	Water	Water Base	293	1	293
221	SNHL	Kerr	Wiedenfelf	West	3/4"	Water	Water Base	1	1.5	1.5
222	SPE5	Parker	Monarch	East	5/8"	Water	Water Base	32	1	32
223	SRSE	Tarrant	Monarch	East	5/8"	Water	Water Base	17	1	17
224	SRSE	Tarrant	Monarch	East	1"	Water	Water Base	3	2.5	7.5
225	STES	Denton	Monarch	East	5/8"	Water	Water Base	121	1	121
226	SVRE	Wise	Ni Texas	East	5/8"	Water	Water Base	69	1	69
227	SVRE	Wise	Ni Texas	East	1"	Water	Water Base	2	2.5	5
228	SWPL	Montgomery	Monarch	East	5/8"	Water	Water Base	138	1	138
229	TCAD	Johnson	Monarch	East	5/8"	Water	Water Base	252	1	252
230	TGWD	Grayson	Monarch	East	5/8"	WW	Sewer Base	89	1	89
231	TGWD	Grayson	Monarch	East	5/8"	Water	Water Base	1248	1	1248
232	TGWD	Grayson	Monarch	East	1"	WW	Sewer Base	0	2.5	0
233	TGWD	Grayson	Monarch	East	1"	Water	Water Base	8	2.5	20
234	TGWD	Grayson	Monarch	East	1 1/2"	WW	Sewer Base	6	5	30
235	TGWD	Grayson	Monarch	East	1 1/2"	Water	Water Base	13	5	65
236	TGWD	Grayson	Monarch	East	2"	Water	Water Base	5	8	40
237	TGWD	Grayson	Monarch	East	3"	Water	Water Base	1	15	15
238	TGWD	Grayson	Monarch	East	4"	WW	Sewer Base	2	25	50
239	TGWD	Grayson	Monarch	East	4"	Water	Water Base	1	25	25
240	THES	Johnson	Monarch	East	5/8"	Water	Water Base	22	1	22
241	TKUC	Cherokee, OK	Tenkiller	East	5/8"	WW	Sewer Base	238	1	238
242	TKUC	Cherokee, OK	Tenkiller	East	5/8"	Water	Water Base	274	1	274
243	TRFH	Johnson	Monarch	East	5/8"	Water	Water Base	16	1	16
244	TRTE	Chambers	Monarch	East	5/8"	WW	Sewer Base	221	1	221
245	TRTE	Chambers	Monarch	East	5/8"	Water	Water Base	240	1	240
246	TRTE	Chambers	Monarch	East	2"	WW	Sewer Base	2	8	16
247	TRTE	Chambers	Monarch	East	2"	Water	Water Base	2	8	16
248	VEPK	Kerr	Wiedenfelf	West	5/8"	Water	Water Base	70	1	70
249	VSHL	Kerr	Wiedenfelf	West	5/8"	Water	Water Base	14	1	14
250	VSWK	Harris	Monarch	East	5/8"	WW	Sewer Base	90	1	90
251	VSWK	Harris	Monarch	East	5/8"	Water	Water Base	91	1	91
252	WDBH	Henderson	Monarch	East	5/8"	Water	Water Base	575	1	575
253	WDBH	Henderson	Monarch	East	1"	Water	Water Base	2	2.5	5
254	WDBH	Henderson	Monarch	East	2"	Water	Water Base	1	8	8
255	WDHN	Denton	Monarch	East	5/8"	Water	Water Base	135	1	135
256	WDHN	Denton	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
257	WDHN	Denton	Monarch	East	1"	Water	Water Base	17	2.5	42.5
258	WHAN	Kerr	Wiedenfelf	West	5/8"	Water	Water Base	32	1	32
259	WHHR	Hood	Monarch	East	5/8"	Water	Water Base	374	1	374
260	WIML	Comal	Diamond	West	5/8"	Water	Water Base	231	1	231
261	WIML	Comal	Diamond	West	3/4"	Water	Water Base	1	1.5	1.5
262	WIML	Comal	Diamond	West	1"	Water	Water Base	3	2.5	7.5
263	WIML	Comal	Diamond	West	1 1/2"	Water	Water Base	1	5	5
264	WIML	Comal	Diamond	West	2"	Water	Water Base	2	8	16
265	WIND	Travis	Windermere	West	5/8"	WW	Sewer Base	5623	1	5623
266	WIND	Travis	Windermere	West	5/8"	Water	Water Base	4777	1	4777
267	WIND	Travis	Windermere	West	3/4"	WW	Sewer Base	178	1.5	267
268	WIND	Travis	Windermere	West	3/4"	Water	Water Base	191	1.5	286.5
269	WIND	Travis	Windermere	West	1"	WW	Sewer Base	77	2.5	192.5
270	WIND	Travis	Windermere	West	1"	Water	Water Base	110	2.5	275
271	WIND	Travis	Windermere	West	1 1/2"	WW	Sewer Base	13	5	65
272	WIND	Travis	Windermere	West	1 1/2"	Water	Water Base	25	5	125
273	WIND	Travis	Windermere	West	2"	WW	Sewer Base	49	8	392
274	WIND	Travis	Windermere	West	2"	Water	Water Base	64	8	512
275	WIND	Travis	Windermere	West	3"	WW	Sewer Base	5	15	75
276	WIND	Travis	Windermere	West	3"	Water	Water Base	11	15	165
277	WIND	Travis	Windermere	West	4"	WW	Sewer Base	2	25	50
278	WIND	Travis	Windermere	West	4"	Water	Water Base	2	25	50
279	WIND	Travis	Windermere	West	6"	WW	Sewer Base	1	50	50
280	WIND	Travis	Windermere	West	6"	Water	Water Base	2	50	100
281	WIND	Travis	Windermere	West	8"	WW	Sewer Base	3	80	240
282	WIND	Travis	Windermere	West	8"	Water	Water Base	4	80	320
283	WIOK	Kerr	Wiedenfelf	West	5/8"	Water	Water Base	19	1	19
284	WITR	Wise	Ni Texas	East	5/8"	Water	Water Base	75	1	75
285	WLES	Parker	Monarch	East	5/8"	Water	Water Base	635	1	635

Attachment OPUC 4-9
 Monarch Utilities I L.P.
 Docket No. 50944
 Test Year Ending 12/31/2019 December 31, 2018 Meter Equivalents
 Witness: Edward Taussig

Line No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
286	WLES	Parker	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
287	WLES	Parker	Monarch	East	1"	Water	Water Base	1	2.5	2.5
288	WMDS	Johnson	Monarch	East	5/8"	Water	Water Base	26	1	26
289	WPKV	Johnson	Monarch	East	5/8"	Water	Water Base	26	1	26
290	WSDE	Tarrant	Monarch	East	5/8"	Water	Water Base	308	1	308
291	WSDE	Tarrant	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
292	WSDE	Tarrant	Monarch	East	1"	Water	Water Base	1	2.5	2.5
293	WSDE	Tarrant	Monarch	East	1 1/2"	Water	Water Base	1	5	5
294	WTRL	Harris	SWUT	East	5/8"	Water	Water Base	43	1	43
295	WTRL	Harris	SWUT	East	1 1/2"	Water	Water Base	1	5	5
296	WVHP	Montgomery	Monarch	East	5/8"	Water	Water Base	106	1	106
297	WWOK	Kerr	Wiedenfeld	West	5/8"	Water	Water Base	104	1	104
298	WWPC	Parker	Monarch	East	5/8"	Water	Water Base	47	1	47
299	WWPC	Parker	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
300	FCUC	Williamson	Forest Creek Utility	West		Williamson Col. WW	Sewer Base			1223
301	FCUC	Williamson	Forest Creek Utility	West		Williamson Col. WW	Sewer Base			278
302	FCUC	Williamson	Forest Creek Utility	West		Williamson Col. WW	Sewer Base			55
303	FCUC	Williamson	Forest Creek Utility	West		Williamson Col. WW	Sewer Base			115
304	FCUC	Williamson	Forest Creek Utility	West		Williamson Col. WW	Sewer Base			321
305	WIND	Travis	Windermere	West		Pflugerville - S WW	Sewer Base			150.5
306	PMCK	Hays	Monarch	West		South Buda - C Water	Water Base			565.5
307	MH20	Travis	Metro	West		Manor MUDS Water	Contract	1		2,042

Attachment OPUC 4-9

Monarch Utilities I L.P.

Docket No. 50944

Test Year Ending 12/31/2019 December 31, 2019 Meter Equivalents

Witness: Edward Taussig

Line No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	District	County	Utility	Region	Pipe Size	Water or WW	Line Item Type	# of Installation Number	Equivalency Factor	Meter Equivalents
1	AAVA	Wise	Monarch	East	5/8"	Water	Water Base	135	1	135
2	AAVA	Wise	Monarch	East	3/4"	Water	Water Base	7	1.5	10.5
4	AAVA	Wise	Monarch	East	1"	Water	Water Base	7	2.5	17.5
5	ADSH	Hood	Monarch	East	5/8"	Water	Water Base	444	1	444
6	ADSH	Hood	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
7	BDES	Henderson	Monarch	East	5/8"	WW	Sewer Base	399	1	399
8	BDES	Henderson	Monarch	East	5/8"	Water	Water Base	469	1	469
9	BDES	Henderson	Monarch	East	3/4"	WW	Sewer Base	1	1.5	0
10	BDES	Henderson	Monarch	East	3/4"	Water	Water Base	1	1.5	0
11	BDES	Henderson	Monarch	East	1"	WW	Sewer Base	1	2.5	2.5
12	BDES	Henderson	Monarch	East	1"	Water	Water Base	1	2.5	2.5
13	BDHR	Henderson	Monarch	East	5/8"	Water	Water Base	34	1	34
14	BKHS	Tarrant	Monarch	East	5/8"	Water	Water Base	13	1	13
15	BVHL	Bexar	Water Services	West	5/8"	Water	Water Base	65	1	65
16	BWCV	San Jacinto	Monarch	East	5/8"	WW	Sewer Base	29	1	29
17	BWCV	San Jacinto	Monarch	East	5/8"	Water	Water Base	30	1	30
18	BWCV	San Jacinto	Monarch	East	1"	Water	Water Base	1	2.5	2.5
19	CALE	Van Zandt	Monarch	East	5/8"	Water	Water Base	672	1	672
20	CASE	Kendall	Water Services	West	5/8"	Water	Water Base	100	1	100
21	CDSP	Kerr	Wiedefeld	West	5/8"	Water	Water Base	46	1	46
22	CEPT	Kerr	Wiedefeld	West	5/8"	Water	Water Base	57	1	57
23	CESH	Henderson	Monarch	East	5/8"	WW	Sewer Base	665	1	665
24	CESH	Henderson	Monarch	East	5/8"	Water	Water Base	667	1	667
25	CESH	Henderson	Monarch	East	3/4"	WW	Sewer Base	1	1.5	1.5
26	CESH	Henderson	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
27	CGTE	San Jacinto	Monarch	East	5/8"	Water	Water Base	121	1	121
28	CHLE	Wise	Ni Texas	East	5/8"	Water	Water Base	278	1	278
29	CHPO	Hood	Monarch	East	5/8"	Water	Water Base	472	1	472
30	CHPO	Hood	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
31	CLSP	Montgomery	Monarch	East	5/8"	Water	Water Base	82	1	82
32	CNES	Henderson	Monarch	East	5/8"	Water	Water Base	749	1	749
33	CNES	Henderson	Monarch	East	1"	Water	Water Base	4	2.5	10
34	CNES	Henderson	Monarch	East	2"	Water	Water Base	1	8	8
35	COCV	Hood	Monarch	East	5/8"	Water	Water Base	506	1	506
36	COCV	Hood	Monarch	East	3/4"	Water	Water Base	2	1.5	3
37	COCV	Hood	Monarch	East	1"	Water	Water Base	1	2.5	0
38	COOL	Bexar	Water Services	West	5/8"	Water	Water Base	304	1	304
39	COOL	Bexar	Water Services	West	3/4"	Water	Water Base	2	1.5	3
40	COOL	Bexar	Water Services	West	1"	Water	Water Base	2	2.5	5
41	COOL	Bexar	Water Services	West	1.5"	Water	Water Base	1	5	5
42	CROW	Johnson	Monarch	East	5/8"	Water	Water Base	615	1	615
43	CRVY	San Jacinto	Monarch	East	5/8"	Water	Water Base	60	1	60
44	CSGN	Montgomery	Monarch	East	5/8"	WW	Sewer Base	60	1	60
45	CSGN	Montgomery	Monarch	East	5/8"	Water	Water Base	60	1	60
46	CSWD	Polk	Monarch	East	5/8"	Water	Water Base	31	1	31
47	CSWD	Polk	Monarch	East	1"	Water	Water Base	1	2.5	2.5
48	CTFT	Matagorda	Monarch	East	5/8"	Water	Water Base	89	1	89
49	CTFT	Matagorda	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
50	CYBD	Bexar	Water Services	West	5/8"	Water	Water Base	251	1	251
51	CYBD	Bexar	Water Services	West	3/4"	Water	Water Base	1	1.5	1.5
52	CYBD	Bexar	Water Services	West	1"	Water	Water Base	1	2.5	2.5
53	CYRA	Wise	Ni Texas	East	5/8"	Water	Water Base	121	1	121
54	CYWD	Polk	Monarch	East	5/8"	Water	Water Base	37	1	37
55	DALH	Henderson	Monarch	East	5/8"	Water	Water Base	41	1	41
56	DCES	Denton	Monarch	East	5/8"	Water	Water Base	103	1	103
57	DCES	Denton	Monarch	East	1"	Water	Water Base	4	2.5	10
58	DHIC	Montgomery	Monarch	East	5/8"	WW	Sewer Base	964	1	964
59	DHIC	Montgomery	Monarch	East	3/4"	WW	Sewer Base	1	1.5	0
60	DHIC	Montgomery	Monarch	East	3/4"	Water	Water Base	1	1.5	0
61	DHIC	Montgomery	Monarch	East	5/8"	Water	Water Base	1156	1	1156
62	DHIC	Montgomery	Monarch	East	1"	Water	Water Base	1	2.5	2.5
63	DHIC	Montgomery	Monarch	East	1.5"	WW	Sewer Base	2	5	10
64	DHIC	Montgomery	Monarch	East	1.5"	Water	Water Base	2	5	10
65	DHIC	Montgomery	Monarch	East	3"	WW	Sewer Base	1	15	15
66	DHIC	Montgomery	Monarch	East	3"	Water	Water Base	1	15	15
67	EDRR	Bandera	Diamond	West	5/8"	Water	Water Base	142	1	142
68	FCAD	Johnson	Monarch	East	5/8"	Water	Water Base	66	1	66
69	GDOK	Guadalupe	Water Services	West	5/8"	Water	Water Base	99	1	99
70	GDOK	Guadalupe	Water Services	West	3/4"	Water	Water Base	2	1.5	3
71	GDOK	Guadalupe	Water Services	West	1"	Water	Water Base	1	2.5	2.5
72	GNAC	Polk	Monarch	East	5/8"	Water	Water Base	35	1	35
73	GNAS	Parker	Monarch	East	5/8"	Water	Water Base	90	1	90
74	GSPT	San Jacinto	Monarch	East	5/8"	Water	Water Base	153	1	153
75	GSPT	San Jacinto	Monarch	East	3/4"	Water	Water Base	3	1.5	4.5
76	GYAC	Hood	Monarch	East	5/8"	Water	Water Base	88	1	88
77	HAWR	Henderson	Monarch	East	5/8"	Water	Water Base	540	1	540
78	HAWR	Henderson	Monarch	East	1"	Water	Water Base	5	2.5	12.5
79	HAWR	Henderson	Monarch	East	1.5"	Water	Water Base	1	5	5
80	HBES	Hood	Monarch	East	5/8"	Water	Water Base	78	1	78
81	HBUC	Travis	Hornsby Bend	West	5/8"	WW	Sewer Base	3212	1	3212
82	HBUC	Travis	Hornsby Bend	West	5/8"	Water	Water Base	3053	1	3053
83	HBUC	Travis	Hornsby Bend	West	3/4"	WW	Sewer Base	4	1.5	6
84	HBUC	Travis	Hornsby Bend	West	3/4"	Water	Water Base	4	1.5	6
85	HBUC	Travis	Hornsby Bend	West	1"	WW	Sewer Base	2	2.5	5
86	HBUC	Travis	Hornsby Bend	West	1"	Water	Water Base	4	2.5	10
87	HBUC	Travis	Hornsby Bend	West	1.5"	Water	Water Base	3	5	15
88	HBUC	Travis	Hornsby Bend	West	2"	WW	Sewer Base	2	8	16

Attachment OPUC 4-9

Monarch Utilities I L.P.

Docket No. 50944

Test Year Ending 12/31/2019 December 31, 2019 Meter Equivalents

Witness: Edward Taussig

Line No.	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	District	County	Utility	Region	Pipe Size	Water or WW	Line Item Type	# of Installation Number	Equivalency Factor	Meter Equivalents
89	HBUC	Travis	Hornsby Bend	West	2"	Water	Water Base	3	8	24
90	HBUC	Travis	Hornsby Bend	West	3"	WW	Sewer Base	4	15	60
91	HBUC	Travis	Hornsby Bend	West	3"	Water	Water Base	4	15	60
92	HBUC	Travis	Hornsby Bend	West	6"	WW	Sewer Base	1	50	50
93	HBUC	Travis	Hornsby Bend	West	6"	Water	Water Base	1	50	50
94	HEPK	Kerr	Wiedefeld	West	5/8"	Water	Water Base	28	1	28
95	HLDL	Kerr	Wiedefeld	West	5/8"	Water	Water Base	73	1	73
96	HLOC	Wise	Ni Texas	East	5/8"	Water	Water Base	240	1	240
97	HNCV	San Jacinto	Monarch	East	5/8"	WW	Sewer Base	0	1	0
98	HNCV	San Jacinto	Monarch	East	5/8"	Water	Water Base	139	1	139
99	HNLS	Montgomery	Monarch	East	5/8"	Water	Water Base	143	1	143
100	HNLS	Montgomery	Monarch	East	3/4"	Water	Water Base	1	1.5	0
101	HNLS	Montgomery	Monarch	East	1"	Water	Water Base	2	2.5	5
102	HRPT	Trinity	Monarch	East	5/8"	WW	Sewer Base	276	1	276
103	HRPT	Trinity	Monarch	East	5/8"	Water	Water Base	317	1	317
104	HRPT	Trinity	Monarch	East	2"	WW	Sewer Base	0	8	0
105	HRPT	Trinity	Monarch	East	2"	Water	Water Base	0	8	0
106	HUCL	Travis	Huntington	West	5/8"	Water	Water Base	125	1	125
107	HUCL	Travis	Huntington	West	1"	Water	Water Base	1	2.5	2.5
108	HVOF	Wood	Monarch	East	5/8"	WW	Sewer Base	404	1	404
109	HVOF	Wood	Monarch	East	5/8"	Water	Water Base	421	1	421
110	HVOF	Wood	Monarch	East	3/4"	WW	Sewer Base	2	1.5	3
111	HVOF	Wood	Monarch	East	3/4"	Water	Water Base	2	1.5	3
112	HVOF	Wood	Monarch	East	1"	WW	Sewer Base	4	2.5	10
113	HVOF	Wood	Monarch	East	1"	Water	Water Base	4	2.5	10
114	HVOL	San Jacinto	Monarch	East	5/8"	WW	Sewer Base	490	1	490
115	HVOL	San Jacinto	Monarch	East	5/8"	Water	Water Base	532	1	532
116	HVOL	San Jacinto	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
117	HVOL	San Jacinto	Monarch	East	1"	WW	Sewer Base	3	2.5	7.5
118	HVOL	San Jacinto	Monarch	East	1"	Water	Water Base	3	2.5	7.5
119	HVOL	San Jacinto	Monarch	East	2"	WW	Sewer Base		8	0
120	HVOL	San Jacinto	Monarch	East	2"	Water	Water Base		8	0
121	HVOM	Bandera	Monarch	West	5/8"	WW	Sewer Base	245	1	245
122	HVOM	Bandera	Monarch	West	5/8"	Water	Water Base	267	1	267
123	HVOM	Bandera	Monarch	West	1"	WW	Sewer Base	2	2.5	5
124	HVOM	Bandera	Monarch	West	1"	Water	Water Base	2	2.5	5
125	HYSS	Brazoria	Monarch	East	5/8"	Water	Water Base	146	1	146
126	IHHR	Marion	Monarch	East	5/8"	Water	Water Base	95	1	95
127	INHE	Tyler	Monarch	East	5/8"	Water	Water Base	654	1	654
128	INPT	Travis	Monarch	West	5/8"	Water	Water Base	219	1	219
129	INPT	Travis	Monarch	West	3/4"	Water	Water Base	3	1.5	4.5
130	INPT	Travis	Monarch	West	1"	Water	Water Base	1	2.5	2.5
131	LMSH	Bandera	Monarch	West	5/8"	Water	Water Base	567	1	567
132	LMSH	Bandera	Monarch	West	3/4"	Water	Water Base	3	1.5	4.5
133	LMSH	Bandera	Monarch	West	2"	Water	Water Base	1	8	8
134	LNVY	Polk	Monarch	East	5/8"	Water	Water Base	36	1	36
135	LLOL	Henderson	Monarch	East	5/8"	Water	Water Base	82	1	82
136	LYHR	Smith	Monarch	East	5/8"	Water	Water Base	268	1	268
137	LYHR	Smith	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
138	LYHR	Smith	Monarch	East	1"	Water	Water Base	1	2.5	2.5
139	MBES	Hood	Monarch	East	5/8"	Water	Water Base	125	1	125
140	MDTX	Travis	Mid Tex	West	5/8"	WW	Sewer Base	193	1	193
141	MDTX	Travis	Mid Tex	West	5/8"	Water	Water Base	194	1	194
142	MDTX	Travis	Mid Tex	West	3/4"	WW	Sewer Base	249	1.5	373.5
143	MDTX	Travis	Mid Tex	West	3/4"	Water	Water Base	252	1.5	378
144	MDTX	Travis	Mid Tex	West	1"	WW	Sewer Base	1	2.5	2.5
145	MDTX	Travis	Mid Tex	West	1"	Water	Water Base	4	2.5	10
146	MDTX	Travis	Mid Tex	West	1.5"	Water	Water Base	4	5	20
147	MDTX	Travis	Mid Tex	West	3"	Water	Water Base	1	15	15
148	MRES	Tarrant	Monarch	East	5/8"	Water	Water Base	38	1	38
149	MRES	Tarrant	Monarch	East	1"	Water	Water Base	15	2.5	37.5
150	MSCV	Henderson	Monarch	East	5/8"	Water	Water Base	77	1	77
151	MSCV	Henderson	Monarch	East	1"	Water	Water Base	1	2.5	2.5
152	MXHS	Johnson	Monarch	East	5/8"	Water	Water Base	1141	1	1141
153	MXHS	Johnson	Monarch	East	3/4"	Water	Water Base	2	1.5	3
154	NRES	Johnson	Monarch	East	5/8"	Water	Water Base	99	1	99
155	OAKV	Gillespie	Diamond	West	5/8"	Water	Water Base	64	1	64
156	OAKV	Gillespie	Diamond	West	3/4"	Water	Water Base		1.5	0
157	OKNT	Bexar	Water Services	West	5/8"	Water	Water Base	341	1	341
158	OKTE	Polk	Monarch	East	1"	Water	Water Base	2	2.5	5
159	OKTE	Polk	Monarch	East	5/8"	Water	Water Base	128	1	128
160	OKVN	Comal	Water Services	West	5/8"	Water	Water Base	641	1	641
161	OKVN	Comal	Water Services	West	3/4"	Water	Water Base	2	1.5	3
162	OKVN	Comal	Water Services	West	1"	Water	Water Base	3	2.5	7.5
163	OKVD	Montgomery	Monarch	East	5/8"	Water	Water Base	48	1	48
164	ORES	Kerr	Wiedefeld	West	5/8"	Water	Water Base	42	1	42
165	OTSH	Hood	Monarch	East	5/8"	Water	Water Base	1039	1	1039
166	OTSH	Hood	Monarch	East	1"	Water	Water Base	2	2.5	5
167	PAAD	Denton	Monarch	East	5/8"	Water	Water Base	49	1	49
168	PHPS	Polk	Monarch	East	5/8"	Water	Water Base	59	1	59
169	PHPS	Polk	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
170	PIHR	Marion	Monarch	East	5/8"	Water	Water Base	288	1	288
171	PINP	Henderson	Monarch	East	5/8"	WW	Sewer Base	293	1	293
172	PINP	Henderson	Monarch	East	5/8"	Water	Water Base	308	1	308
173	PINP	Henderson	Monarch	East	3/4"	WW	Sewer Base	4	1.5	6
174	PINP	Henderson	Monarch	East	3/4"	Water	Water Base	4	1.5	6
175	PINP	Henderson	Monarch	East	1"	WW	Sewer Base	3	2.5	7.5

Attachment OPUC 4-9

Monarch Utilities I L.P.

Docket No. 50944

Test Year Ending 12/31/2019 December 31, 2019 Meter Equivalents

Witness: Edward Taussig

Line No	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	District	County	Utility	Region	Pipe Size	Water or WW	Line Item Type	# of Installation Number	Equivalency Factor	Meter Equivalents
176	PINP	Henderson	Monarch	East	1"	Water	Water Base	3	2.5	7.5
177	PINP	Henderson	Monarch	East	1.5"	WW	Sewer Base	1	5	5
178	PINP	Henderson	Monarch	East	1.5"	Water	Water Base	1	5	5
179	PLCK	Kendall	Wiedefeld	West	5/8"	Water	Water Base	36	1	36
180	PMCK	Hays	Monarch	West	5/8"	Water	Water Base	2275	1	2275
181	PMCK	Hays	Monarch	West	3/4"	Water	Water Base	17	1.5	25.5
182	PMCK	Hays	Monarch	West	1"	Water	Water Base	44	2.5	110
183	PMCK	Hays	Monarch	West	1.5"	Water	Water Base	7	5	35
184	PMCK	Hays	Monarch	West	2"	Water	Water Base	10	8	80
185	PMCK	Hays	Monarch	West	3"	Water	Water Base	3	15	45
186	PMCK	Hays	Monarch	West	4"	Water	Water Base	1	25	25
187	PMCK	Hays	Monarch	West	6"	Water	Water Base	1	50	50
188	PMCK	Hays	Monarch	West	8"	Water	Water Base	2	80	160
189	PSAS	Polk	Monarch	East	5/8"	Water	Water Base	20	1	20
190	PSAS	Polk	Monarch	East	2"	Water	Water Base		8	0
191	PTSH	Smith	Monarch	East	5/8"	Water	Water Base	254	1	254
192	REJN	Johnson	Monarch	East	5/8"	Water	Water Base	146	1	146
193	RIMR	Comal	Diamond	West	5/8"	Water	Water Base	331	1	331
194	RIMR	Comal	Diamond	West	3/4"	Water	Water Base	1	1.5	1.5
195	RIMR	Comal	Diamond	West	1"	Water	Water Base	5	2.5	12.5
196	ROBS	Hood	Monarch	East	5/8"	Water	Water Base	150	1	150
197	ROCK	Hood	Monarch	East	5/8"	Water	Water Base	68	1	68
198	RORH	Hays	Monarch	West	5/8"	Water	Water Base	106	1	106
199	RPEA	Grayson	Monarch	East	5/8"	Water	Water Base	80	1	80
200	RPEA	Grayson	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
201	RPEA	Grayson	Monarch	East	1"	Water	Water Base	1	2.5	2.5
202	RPEA	Grayson	Monarch	East	2"	Water	Water Base	1	8	8
203	RPEB	Grayson	Monarch	East	5/8"	Water	Water Base	43	1	43
204	RPEB	Grayson	Monarch	East	1"	Water	Water Base	1	2.5	2.5
205	RTGC	Grayson	Monarch	East	5/8"	Water	Water Base	513	1	513
206	RTGC	Grayson	Monarch	East	1"	Water	Water Base	8	2.5	20
207	RTGC	Grayson	Monarch	East	2"	Water	Water Base	2	8	16
208	RVBD	Bandera	Diamond	West	5/8"	Water	Water Base	152	1	152
209	RVBD	Bandera	Diamond	West	3/4"	Water	Water Base	1	1.5	1.5
210	RYCK	Medina	Wiedefeld	West	5/8"	Water	Water Base	39	1	39
211	RYWD	Liberty	Monarch	East	5/8"	Water	Water Base	81	1	81
212	RYWD	Liberty	Monarch	East	1"	Water	Water Base	2	2.5	5
213	SABR	Wise	Ni Texas	East	5/8"	Water	Water Base	144	1	144
214	SDCE	Johnson	Monarch	East	5/8"	Water	Water Base	262	1	262
215	SDCE	Johnson	Monarch	East	1"	Water	Water Base	1	2.5	2.5
216	SDSH	Grayson	Monarch	East	5/8"	Water	Water Base	623	1	623
217	SDSH	Grayson	Monarch	East	1"	Water	Water Base	1	2.5	2.5
218	SDSH	Grayson	Monarch	East	2"	Water	Water Base	1	8	8
219	SGCH	Bexar	Water Services	West	5/8"	Water	Water Base	156	1	156
220	SGCH	Bexar	Water Services	West	3/4"	Water	Water Base	1	1.5	1.5
221	SGCH	Bexar	Water Services	West	1"	Water	Water Base	1	2.5	2.5
222	SGCH	Bexar	Water Services	West	1.5"	Water	Water Base	3	5	15
223	SGCH	Bexar	Water Services	West	2"	Water	Water Base	1	8	8
224	SHES	San Jacinto	Monarch	East	5/8"	Water	Water Base	20	1	20
225	SHLN	Johnson	Ni Texas	East	5/8"	Water	Water Base	245	1	245
226	SNAS	Johnson	Monarch	East	5/8"	Water	Water Base	9	1	9
227	SNHL	Kerr	Wiedefeld	West	5/8"	Water	Water Base	296	1	296
228	SNHL	Kerr	Wiedefeld	West	1"	Water	Water Base	1	2.5	2.5
229	SPES	Parker	Monarch	East	5/8"	Water	Water Base	32	1	32
230	SRSE	Tarrant	Monarch	East	5/8"	Water	Water Base	16	1	16
231	SRSE	Tarrant	Monarch	East	1"	Water	Water Base	3	2.5	7.5
232	STES	Denton	Monarch	East	5/8"	Water	Water Base	123	1	123
233	SVRE	Wise	Ni Texas	East	5/8"	Water	Water Base	70	1	70
234	SVRE	Wise	Ni Texas	East	2"	Water	Water Base	1	8	8
235	SVRE	Wise	Ni Texas	East	1"	Water	Water Base	2	2.5	5
236	SWPL	Montgomery	Monarch	East	5/8"	Water	Water Base	140	1	140
237	SWPL	Montgomery	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
238	TCAD	Johnson	Monarch	East	5/8"	Water	Water Base	255	1	255
239	TGWD	Grayson	Monarch	East	5/8"	WW	Sewer Base	104	1	104
240	TGWD	Grayson	Monarch	East	5/8"	Water	Water Base	1275	1	1275
241	TGWD	Grayson	Monarch	East	1"	WW	Sewer Base	1	2.5	2.5
242	TGWD	Grayson	Monarch	East	1"	Water	Water Base	9	2.5	22.5
243	TGWD	Grayson	Monarch	East	1.5"	WW	Sewer Base	6	5	30
244	TGWD	Grayson	Monarch	East	1.5"	Water	Water Base	13	5	65
245	TGWD	Grayson	Monarch	East	2"	Water	Water Base	5	8	40
246	TGWD	Grayson	Monarch	East	3"	Water	Water Base	1	15	15
247	TGWD	Grayson	Monarch	East	4"	WW	Sewer Base	2	25	50
248	TGWD	Grayson	Monarch	East	4"	Water	Water Base	1	25	25
249	THES	Johnson	Monarch	East	5/8"	Water	Water Base	23	1	23
250	TKUC	Cherokee, OK	Tenkiller	East	5/8"	WW	Sewer Base	244	1	244
251	TKUC	Cherokee, OK	Tenkiller	East	5/8"	Water	Water Base	284	1	284
252	TRFH	Johnson	Monarch	East	5/8"	Water	Water Base	15	1	15
253	TRTE	Chambers	Monarch	East	5/8"	WW	Sewer Base	221	1	221
254	TRTE	Chambers	Monarch	East	5/8"	Water	Water Base	241	1	241
255	TRTE	Chambers	Monarch	East	2"	WW	Sewer Base	2	8	16
256	TRTE	Chambers	Monarch	East	2"	Water	Water Base	2	8	16
257	VEPK	Kerr	Wiedefeld	West	5/8"	Water	Water Base	70	1	70
258	VSHL	Kerr	Wiedefeld	West	5/8"	Water	Water Base	13	1	13
259	VSWK	Harris	Monarch	East	5/8"	WW	Sewer Base	89	1	89
260	VSWK	Harris	Monarch	East	5/8"	Water	Water Base	90	1	90
261	WDBH	Henderson	Monarch	East	5/8"	Water	Water Base	581	1	581
262	WDBH	Henderson	Monarch	East	1"	Water	Water Base	2	2.5	5

Attachment OPUC 4-9

Monarch Utilities I L.P.

Docket No. 50944

Test Year Ending 12/31/2019 December 31, 2019 Meter Equivalents

Witness: Edward Taussig

Line No	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)
	District	County	Utility	Region	Pipe Size	Water or WW	Line Item Type	# of Installation Number	Equivalency Factor	Meter Equivalents
1										
263	WDBH	Henderson	Monarch	East	2"	Water	Water Base	1	8	8
264	WDHN	Denton	Monarch	East	5/8"	Water	Water Base	137	1	137
265	WDHN	Denton	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
266	WDHN	Denton	Monarch	East	1"	Water	Water Base	14	2.5	35
267	WHAN	Kerr	Wiedefeld	West	5/8"	Water	Water Base	30	1	30
268	WHHR	Hood	Monarch	East	5/8"	Water	Water Base	384	1	384
269	WIML	Comal	Diamond	West	5/8"	Water	Water Base	234	1	234
270	WIML	Comal	Diamond	West	3/4"	Water	Water Base	1	1.5	1.5
271	WIML	Comal	Diamond	West	1"	Water	Water Base	3	2.5	7.5
272	WIML	Comal	Diamond	West	1.5"	Water	Water Base	1	5	5
273	WIML	Comal	Diamond	West	2"	Water	Water Base	2	8	16
274	WIND	Travis	Windermere	West	5/8"	WW	Sewer Base	5769	1	5769
275	WIND	Travis	Windermere	West	5/8"	Water	Water Base	4861	1	4861
276	WIND	Travis	Windermere	West	3/4"	WW	Sewer Base	185	1.5	277.5
277	WIND	Travis	Windermere	West	3/4"	Water	Water Base	197	1.5	295.5
278	WIND	Travis	Windermere	West	1"	WW	Sewer Base	76	2.5	190
279	WIND	Travis	Windermere	West	1"	Water	Water Base	109	2.5	272.5
280	WIND	Travis	Windermere	West	1.5"	WW	Sewer Base	13	5	65
281	WIND	Travis	Windermere	West	1.5"	Water	Water Base	26	5	130
282	WIND	Travis	Windermere	West	2"	WW	Sewer Base	34	8	272
283	WIND	Travis	Windermere	West	2"	Water	Water Base	53	8	424
284	WIND	Travis	Windermere	West	3"	WW	Sewer Base	5	15	75
285	WIND	Travis	Windermere	West	3"	Water	Water Base	7	15	105
286	WIND	Travis	Windermere	West	4"	WW	Sewer Base	2	25	50
287	WIND	Travis	Windermere	West	4"	Water	Water Base	2	25	50
288	WIND	Travis	Windermere	West	6"	WW	Sewer Base	1	50	50
289	WIND	Travis	Windermere	West	6"	Water	Water Base	1	50	50
290	WIND	Travis	Windermere	West	8"	WW	Sewer Base	3	80	240
291	WIND	Travis	Windermere	West	8"	Water	Water Base	3	80	240
292	WIOK	Kerr	Wiedefeld	West	5/8"	Water	Water Base	20	1	20
293	WITR	Wise	Ni Texas	East	5/8"	Water	Water Base	75	1	75
294	WLES	Parker	Monarch	East	5/8"	Water	Water Base	662	1	662
295	WLES	Parker	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
296	WLES	Parker	Monarch	East	1"	Water	Water Base	1	2.5	2.5
297	WMD5	Johnson	Monarch	East	5/8"	Water	Water Base	31	1	31
298	WPKV	Johnson	Monarch	East	5/8"	Water	Water Base	26	1	26
299	WSDE	Tarrant	Monarch	East	5/8"	Water	Water Base	321	1	321
300	WSDE	Tarrant	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
301	WSDE	Tarrant	Monarch	East	1"	Water	Water Base	1	2.5	2.5
302	WSDE	Tarrant	Monarch	East	1.5"	Water	Water Base	1	5	5
303	WTRL	Harris	Monarch	East	5/8"	Water	Water Base	41	1	41
304	WTRL	Harris	Monarch	East	1.5"	Water	Water Base	1	5	5
305	WVHP	Montgomery	Monarch	East	5/8"	Water	Water Base	104	1	104
306	WVHP	Montgomery	Monarch	East	2"	Water	Water Base	2	8	16
307	WWOK	Kerr	Wiedefeld	West	5/8"	Water	Water Base	107	1	107
308	WWPC	Parker	Monarch	East	5/8"	Water	Water Base	55	1	55
309	WWPC	Parker	Monarch	East	3/4"	Water	Water Base	1	1.5	1.5
310	FCUC	Williamson	Forest Creek Utility	West	Williamson County WSID - CA# 1000016551	WW	Sewer Base			1233
311	FCUC	Williamson	Forest Creek Utility	West	Williamson County WSID - CA# 1000016553	WW	Sewer Base			283
312	FCUC	Williamson	Forest Creek Utility	West	Williamson County WSID - CA# 1000016552	WW	Sewer Base			55
313	FCUC	Williamson	Forest Creek Utility	West	Williamson County WSID - CA# 1000016550	WW	Sewer Base			147.5
314	FCUC	Williamson	Forest Creek Utility	West	Williamson County MUD 22 - CA# 1000047885	WW	Sewer Base			421
315	WIND	Travis	Windermere	West	Pflugerville - (SD Billing)	WW	Sewer Base			150.5
316	PMCK	Hays	Monarch	West	South Buda - CA# 1000012007	Water	Water Base			580.5
317	MH20	Gaines	Seminole	West	City of Seminole	Water	Contract	1		2,729
318	MH20	Travis	Metro	West	Manor MUD5	Water	Contract	1		2,330