



City of North Port

Office of the City Manager

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December 14, 2015

Mr. Patrick J. Lehman
Executive Director
Peace River/Manasota Regional Water Supply Authority
9415 Town Center Parkway
Lakewood Ranch, FL 34202

RE: City of North Port Annual Water Demand Projections

Dear Mr. Lehman:

Pursuant to the PRMRWSA Master Water Supply Contract, North Port is required prior to January 15th of each contract year, to submit a report which identifies the following:

- 1) Total projected water demand by Contract Year for the next 20 years;
- 2) That portion of the total 20 year demand the customer requires the PRMRWSA to fulfill in terms of Annual Average Daily Quantity; and
- 3) The basis for each projection.

Attachment one provides the information required for total projected water demand and amount required of PRMRWSA in annual average daily quantity. Attachment two provides the amount required of PRMRWSA in Peak Month Average Daily Quantity. Attachment three provides the amount required of PRMRWSA in Maximum Daily Quantity. We have also included a graphical presentation of North Port Water Demand and Supply Projections.

Staff has reviewed BEBR projections, the City's Planning Department's current planned projections and SWFWMD projections as well as considering current developer growth as a basis for the current year's demand projections.

Due to conservation efforts and education, managing the new Reverse Osmosis plant more efficiently and a reduction in flushing, slightly lower demands are expected over the projection period. We also estimate for the next four years, we will have water available for the redistribution pool. The table below identifies our estimates.

Contract Year	Water available for redistribution pool (MGD)
2017	.50
2018	.50
2019	.50
2020	.50
2021	.00
2022	.00

North Port remains committed to providing the water needs of our community and looks forward to continuing our close relationship with the PRMRWSA on this important issue.

Sincerely,



Jonathan R. Lewis, ICMA-CM
City Manager

JRL/jd/mg

Attachments:

1. 2016 Annual Water Demand/Supply Sources Projections-Annual Average
2. 2016 Annual Water Demand/Supply Sources Projections-Peak Month
3. 2016 Annual Water Demand/Supply Sources Projections-Peak Day
4. North Port Water Demand and Supply Projections Graph

CC: Honorable Mayor and City Commission
Daniel P. Schult, Assistant City Manager
Rick Newkirk, Utilities Director
Mark Moriarty, City Attorney
Helen Raimbeau, City Clerk
Thomas A. Harmer, Sarasota County Administrator
Ed Hunzeker, Manatee County Administrator
Mandy Hines, DeSoto County Administrator
Ray Sandrock, Charlotte County Administrator

Attachment 1

2016 Annual Water Demand/Supply Sources Projection							
	Year	Average Day Demand (MGD)	Supply Sources - Annual Average				
			Northeast Water Treatment Plant (MGD)	Southwest Water Treatment Plant (MGD)	Myakkahatchee Creek Water Treatment Plant (MGD)	Peace River Schedule B (MGD)	Peace River Schedule C (MGD)
Actual →	2015	2.798	0	0	3.3	2.7	0
Projected →	2016	3.330	0	0	3.3	2.865	0
↓	2017	3.660	0	0	3.3	2.865	0
↓	2018	4.030	0	0	3.3	2.865	0
↓	2019	4.430	0	0	3.3	2.865	0
↓	2020	4.870	0	0	3.3	2.865	0
↓	2021	5.120	0	0	3.3	2.865	0
↓	2022	5.370	0	0	3.3	2.865	0
↓	2023	5.640	0	1.4	3.3	2.865	0
Years 8 - 20 as requested for planning purposes in section 11.1 of the Master Water Supply Contract							
↓	2024	5.920	0	1.4	3.3	2.865	0
↓	2025	6.220	0	1.4	3.3	2.865	0
↓	2026	6.530	0	1.4	3.3	2.865	0
↓	2027	6.860	1.4	1.4	3.3	2.865	0
↓	2028	7.200	1.4	1.4	3.3	2.865	0
↓	2029	7.560	1.4	1.4	3.3	2.865	0
↓	2030	7.940	1.4	1.4	3.3	2.865	0
↓	2031	8.250	1.4	2.8	3.3	2.865	0
↓	2032	8.580	1.4	2.8	3.3	2.865	0
↓	2033	8.930	1.4	2.8	3.3	2.865	0
↓	2034	9.280	1.4	2.8	3.3	2.865	0
↓	2035	9.650	3.2	2.8	3.3	2.865	0
↓	2036	10.040	3.2	2.8	3.3	2.865	0

Attachment 2

2016 Annual Water Demand/Supply Sources Projection							
	Year	Peak Month Demand (MGD)	Supply Sources - Peak Month				
			Northeast Water Treatment Plant (MGD)	Southwest Water Treatment Plant (MGD)	Myakkahatchee Creek Water Treatment Plant (MGD)	Peace River Schedule B (MGD)	Peace River Schedule C (MGD)
Actual →	2015	3.358	0	0	3.96	3.146	0
Projected→	2016	3.996	0	0	3.96	3.438	0
↓	2017	4.392	0	0	3.96	3.438	0
↓	2018	4.836	0	0	3.96	3.438	0
↓	2019	5.316	0	0	3.96	3.438	0
↓	2020	5.844	0	0	3.96	3.438	0
↓	2021	6.144	0	0	3.96	3.438	0
↓	2022	6.444	0	0	3.96	3.438	0
↓	2023	6.768	0	2.1	3.96	3.438	0
Years 8 - 20 as requested for planning purposes in section 11.1 of the Master Water Supply Contract							
↓	2024	7.104	0	2.1	3.96	3.438	0
↓	2025	7.464	0	2.1	3.96	3.438	0
↓	2026	7.836	0	2.1	3.96	3.438	0
↓	2027	8.232	2.1	2.1	3.96	3.438	0
↓	2028	8.640	2.1	2.1	3.96	3.438	0
↓	2029	9.072	2.1	2.1	3.96	3.438	0
↓	2030	9.528	2.1	2.1	3.96	3.438	0
↓	2031	9.900	2.1	4.2	3.96	3.438	0
↓	2032	10.296	2.1	4.2	3.96	3.438	0
↓	2033	10.716	2.1	4.2	3.96	3.438	0
↓	2034	11.136	2.1	4.2	3.96	3.438	0
↓	2035	11.580	4.8	4.2	3.96	3.438	0
↓	2036	12.048	4.8	4.2	3.96	3.438	0

Attachment 3

2016 Annual Water Demand/Supply Sources Projection							
	Year	Peak Day Demand (MGD)	Supply Sources - Peak Day				
			Northeast Water Treatment Plant (MGD)	Southwest Water Treatment Plant (MGD)	Myakkahatchee Creek Water Treatment Plant (MGD)	Peace River Schedule B (MGD)	Peace River Schedule C (MGD)
Actual →	2015	3.917	0	0	4.62	3.78	
Projected→	2016	4.662	0	0	4.9	4.011	0
↓	2017	5.124	0	0	4.9	4.011	0
	2018	5.642	0	0	4.9	4.011	0
↓	2019	6.202	0	0	4.9	4.011	0
	2020	6.818	0	0	4.9	4.011	0
↓	2021	7.168	0	0	4.9	4.011	0
	2022	7.518	0	0	4.9	4.011	0
↓	2023	7.896	0	2.8	4.9	4.011	0
Years 8 - 20 as requested for planning purposes in section 11.1 of the Master Water Supply Contract							
↓	2024	8.288	0	2.8	4.9	4.011	0
	2025	8.708	0	2.8	4.9	4.011	0
↓	2026	9.142	0	2.8	4.9	4.011	0
	2027	9.604	2.8	2.8	4.9	4.011	0
↓	2028	10.080	2.8	2.8	4.9	4.011	0
	2029	10.584	2.8	2.8	4.9	4.011	0
↓	2030	11.116	2.8	2.8	4.9	4.011	0
	2031	11.550	2.8	5.6	4.9	4.011	0
↓	2032	12.012	2.8	5.6	4.9	4.011	0
	2033	12.502	2.8	5.6	4.9	4.011	0
↓	2034	12.992	2.8	5.6	4.9	4.011	0
	2035	13.510	6.4	5.6	4.9	4.011	0
↓	2036	14.056	6.4	5.6	4.9	4.011	0

North Port Water Demand and Supply Projections

