Sanitary Sewer Service Feasibility Analysis





The Honorable Donna Deegan, Mayor

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JACKSONVILLE PLANNING AND DEVELOPMENT DEPARTMENT

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Introduction

Legislative Requirements

Pursuant to Chapter 2023-169, Laws of Florida, which amended Section 163.3177, Florida Statutes, local governments are now required to include a sewer service feasibility analysis in the Infrastructure Element.

The analysis must consider, for any development of more than 50 residential lots, whether built or unbuilt, with more than one onsite sewage treatment and disposal system per 1 acre, the feasibility of providing sanitary sewer services within a 10-year planning horizon.

The analysis shall include:

- 1. The name and location of the wastewater facility that could receive sanitary sewer flows after connection.
- 2. The capacity of the facility and any associated transmission facilities.
- 3. The projected wastewater flow at that facility for the next 20 years, including expected future new construction and connections of onsite sewage treatment and disposal systems to sanitary sewer.
- 4. A timeline for the construction of the sanitary sewer system.

An onsite sewage treatment and disposal system is presumed to exist on a parcel if sanitary sewer services are not available at or adjacent to the parcel boundary.

Each comprehensive plan must be updated to include this element, and as needed thereafter to account for future applicable developments.

In addition to these statutory requirements, Chapter 751, Municipal Code implements the Water / Wastewater System Improvement Program. This program identifies priority target areas for connections to central water and wastewater treatment systems and the elimination of on-site treatment and disposal systems.

City of Jacksonville Water / Wastewater System Improvement Program

Wastewater systems within the City of Jacksonville are owned, operated, and maintained by JEA. The City of Jacksonville has partnered with JEA to invest and implement a septic tank phase out program. Chapter 751 was modified in 2017 to incorporate a program to expand main lines from the JEA facilities, connect homes to those connection points, and abandon the septic tanks. The City and JEA developed a priority matrix based on the following priorities:

- I. 70 Percent of Scoring:
 - a. DOH Failure Areas
 - i. Repair score based off the number of repair permits

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- ii. Score for size of lot
- iii. Soil potential
- iv. Seasonal high-water table
- v. Threat to potable water
- vi. Sanitary conditions (based on bacteria levels of nearby tributaries)
- vii. Proximity to SJR
- viii. Potential for flooding
- b. Those sites within 150 meters of a waterway
- c. Tributary exceedance factor

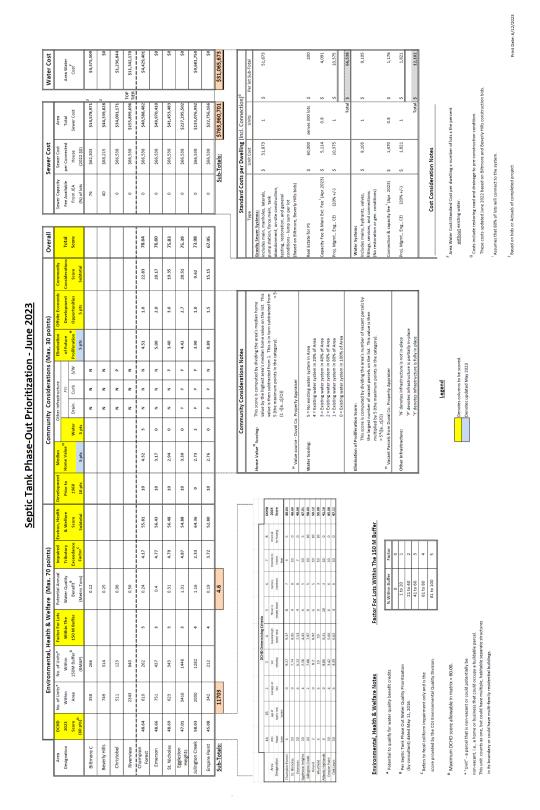
II. 30 Percent of Scoring:

- a. If the neighborhood was developed prior to 1968
- b. Median home value
- c. If potable water was available
- d. Elimination of proliferation score
- e. Offsite economic development opportunities

Each neighborhood is ranked in accordance with their score. These scores are evaluated each year and adjustments are made for any change in ranking. Once funding is identified for the next priority neighborhood, work will begin, and that neighborhood is no longer actively scored. To date, Biltmore is complete with 212 connections; Beverly Hills is actively connecting with 479 connections to date; Christobel is currently under design; and Riverview community outreach will begin in the current quarter.

The Septic Tank matrix covers 35 neighborhoods originally identified by the Department of Health for a septic tank education program where there were concerns about septic tank failures. This list contains approximately 23,167 septic tanks and there are approximately 60,000 to 75,000 septic tanks in Duval County. The overall estimated cost of connecting these neighborhoods in today's (2024) dollars is approximately \$1.5 billion. The 2 neighborhoods that are currently complete or actively connecting total \$59 million. Christobel, while under design, is estimated to cost \$34 million removing approximately 500 septic tanks. And, while very preliminary, project costs for Riverview are anticipated to exceed \$100 million and will remove approximately 2,300 septic tanks. While the City has been phasing out septic tanks for over 20 years, the current Septic Tank Phase-Out program has been in operation for 7 years. In the next 20 years, we believe we may be able to complete five neighborhoods: Riverview, Champion Forest, Emerson, St. Nicholas, and Eggleston Heights if the ranking stays as is.

Figure 1 - Water/Wastewater System Improvement Program Septic Tank Matrix



Septic Tank Phase-Out Prioritization

		Environme	ental, Healt	n & Welfare	Environmental, Health & Welfare (Max. 70 Points)	its)				ormmun	ty cons.	deration	Community Considerations (Max. 30 points)	to points)		Overall		Sewer Cost		Water Cost
Area	DCHD	No. of Units	No. of Units	Factor For Lots	No. of Units No. of Units Factor For Lots Potential Annual	Impaired	Environ, Health	Development	Median	Ð	Other Infrastructure	ncture	Elimination	,	omic Community		Sewer Capacity	Sewer Cost	Area	
91919	Score	Failure Area	H		Benefit ⁸ (Metric Tons)	Exceedance	Score	1968 10 ats	And	Water	Drain.		s/w Proliferation	tion H Opportunities		Score	From JEA	(2022 5's)	Sewer Cost	Cost
Champion Forest	48.64	610	262	e	0.24	4.17	55.81	10	4.32	- m	z	2	N 4.51	1 1.0	22.83	78.64	0	\$66,538	\$40,588,482	\$4,429,401
Emerson	48.66	751	437		0.40	4.77	56.43	10	3.17	•	z	z	N 5.00	0 2.0	20.17	76.60	0	\$66,538	\$49,970,410	8
St. Nicholas	48.69	623	343	3	031	4.79	56.48	10	2.94	0	z	N	э.40	3.0	19.35	75.83	0	\$66,538	\$41,453,483	05
Eggleston Heights	47.01	3416	1446	3	131	4.87	54.88	10	3.39	0	*	<u> </u>	Р 4.42	2.7	20.51	75.39	0	\$66,538	\$227,295,502	05
Julington Creek	58.03	2000	1282	4	116	233	64.36	0	2.73	2	•		P 3.90	1.0	3,62	73.98	0	\$66,538	\$133,076,992	59,681,750
Empire Point	45.08	345	212	4	61.0	3.72	52.80	01	2.76		•	a	N 0.89	1.5	15.15	56.79	0	\$66,538	\$22,756,166	8
Westfield	55.00	190	13	1	10'0	0000	26.00	10	1.94	•	z	z	N 0.00	0.0	11.94	67.94	0	\$66,538	\$12,642,314	8
Kinard	50.12	81	65	s	90.05	3.03	58.15	0	3.58		z	•	Р 0.61	1 2.0	9.19	67.35	0	\$66,538	\$5,389,618	\$588,166
Oak Lawn	47.11	230	220	s	0.20	2.74	54.85	10	2.12		>		y 0.21	1 0.0	12.33	67.19	0	\$66,538	\$15,303,854	8
Atlantic Highlands	41.16	102	54	s	90.0	2.74	48.90	10	3.90		z	z	Р 0.77	0.0	17.66	95'99	0	\$66,538	\$6,786,927	\$740,654
Sans Pereil	43.98	369	181	s	0.16	3.50	52.48	0	17.1	s	z	N	N 3.34	0.0	14.00	66.48	0	\$66,538	\$24,552,705	\$4,465,707
Cedar River	42.82	386	263	4	0.24	3.95	50.77	10	3.27	•	•		Р 0.80	0.5	14.57	65.34	0	\$66,538	\$25,683,859	05
Lakeshore	45.99	1344	253	1	0.23	1.84	48.83	10	3.64	•	•	z	P 1.29	1.0	15.93	64.76	0	\$66,538	\$89,427,738	05
Holly Oaks	41.56	282	171	4	0.16	4.67	50.23	10	3.03	1			P 0.21	1 0.2	14.44	64.67	0	\$66,538	\$18,763,856	\$682,563
Spring Glen	41.13	485	348	4	0.32	3.72	48.85	10	2.76	•			1.99	1.0	15.76	64.61	•	\$66,538	\$32,271,170	8
Mill Creek	41.26	435	141	2	0.13	4.02	47.28	10	3.47		>	>	P 0.80	0.9	16.16	63.45	•	\$66,538	528,944,246	\$1,052,890
Inwood Terrace	41.00	8	52	4	9702	4.77	49.77	10	3.62		>		P 0.00	0.0	13.62	63.39	•	\$66,538	\$6,321,157	8
Julington Hills	49.52	617	432	4	039	3.43	56.95	0	2.23	0	۵.	<u>.</u>	P 1.84	1.0	5.07	62.02	0	\$66,538	\$41,054,252	05
Lone Star Park	39.33	321	127	2	0.12	4.67	46.00	10	3.24		>		P 0.52	2 0.9	14.67	99'09	0	\$66,538	\$21,358,857	8
Hood Landing II	47.64	809	410	2	0.37	3,43	26.07	0	2.54	0	>	Α	y 0.55	0.0	3.09	59.15	0	\$66,538	\$33,868,094	05
Northlake	42.00	121	121	5	0.11	0.83	47.83	0	5.06	2	>	N	N 0.40	3.0	10.46	58.29	0	\$66,538	\$8,051,158	\$1,464,365
Point La Vista	40.70	830	143	1	0.13	3.91	45.61	10	00.00	0	>	•	р 0.52	2 0.2	10.72	56.33	0	\$66,538	\$55,226,952	80
Beauclerc Gardens	44.88	530	300	3	027	4.38	52.26	0	1.14	1	>	4	р 0.58	0.0	2.72	54.98	0	\$66,538	\$35,265,403	\$1,282,832
Ortega	39.84	167	31	2	0.03	1.84	43.68	10	0.05	0	٨	N N	N 0.06	0.0	10.11	53.79	0	\$66,538	\$11,111,929	80
Clifton	31.93	524	309		0.28	4.02	38.95	10	1.69	0	>	a.	р 1.07	7 1.9	14.67	53.62	0	\$66,538	\$34,866,172	\$0
Oakhaven	30.91	790	200	4	0.45	3.72	38.63	10	2.69	0	d	۵ ا	N 1.47	7 0.5	14.66	53.29	0	\$66,538	\$52,565,412	\$0
The Cape	39.64	40	35	5	0.03	0.00	44.64	0	2.81	5	>	N	N 0.18	0.0	7.99	52.63	0	\$66,538	\$2,661,540	\$484,087
Odessa	31.00	×	31	5	0.03	000	36.00	10	4.19	0	>	N	N 0.09	9 0.1	14.38	50.38	0	\$66,538	\$2,262,309	80
Southside Estates	20.94	2305	1780	4	191	4.67	29.61	10	3.36	0	<u>a</u>	N	P 4.02	2 1.0	18.38	47.98	0	\$66,538	\$153,371,233	80
Pablo Point	39.31	238	133		0.12	2.74	45.05	0	66'0	0	>	,	N 0.06	9.0	1.65	46.70	0	\$66,538	\$15,836,162	80
Mt. Pleasant	32.87	439	280	4	0.25	1.38	38.25	0	2.37		>		P 0.37	0.0	5.74	43.98	0	\$66,538	\$29,210,400	\$3,187,716
This page sub total:	total:	19206			9.4													Total This Page	\$1,277,938,352	\$13,948,981
<u>Totals:</u>	Lots	23167	۷	MT Removed:	10.39	Notes:	<u>Notes:</u> 1. Other areas not yet identified as septic tank failure areas, will be entered on the above spreadsheet when assigned a DCHD score.	ot yet identifie when assigned	ot yet identified as septic tank i when assigned a DCHD score.	failure area:	s, will be e	ntered on t	the above spn	eadsheet				Overall Total	\$1,526,758,018	\$45,014,654
							 Offsite Economic Dev. Opportunity Scoring. Whole points are awarded for the potential to connect significant undeveloped/under-developed (Su/UD) parcels along the offsite route of new wastewater mai 	ic Dev. Opportu undeveloped/us	nity Scoring: Why der-developed (5	ing. Whole points are awarded for the potential to connect signifi- eloped (SU/UD) parcels along the offsite route of new wastewater	e awarded i	or the poter	ntial to connect	t significant ewater mains provid	ing service.			ı		

Sanitary Sewer Feasibility Study Area/Feasibility Analysis

Appendix A, the JEA Septic Tank Analysis, evaluates 61 developments of 50 lots or more that are not included in the Water/ Wastewater System Improvement Program. JEA determined the nearest points of connection for each development, the total capacity of each development based on 200 GPD/home, the wastewater facility receiving flow, and the projected wastewater flow at that facility for the next 20 years. The JEA Septic Tank Analysis included an Opinion of Probable cost to give an idea for the cost of hook up for each of the 61 developments. See Opinion of Probably cost information below:

Opinion of Probable Cost

Using the Christobel STPO 10% submittal as a basis of cost, the following values were used in providing an Opinion of Probable cost for each of the Developments:

Force main extension: \$75/in/ft
 Pump Station: \$2,000,000

3. Sewer Connection and septic tank abandonment: \$10,000/home

4. Gravity sewer system: \$52,000/home

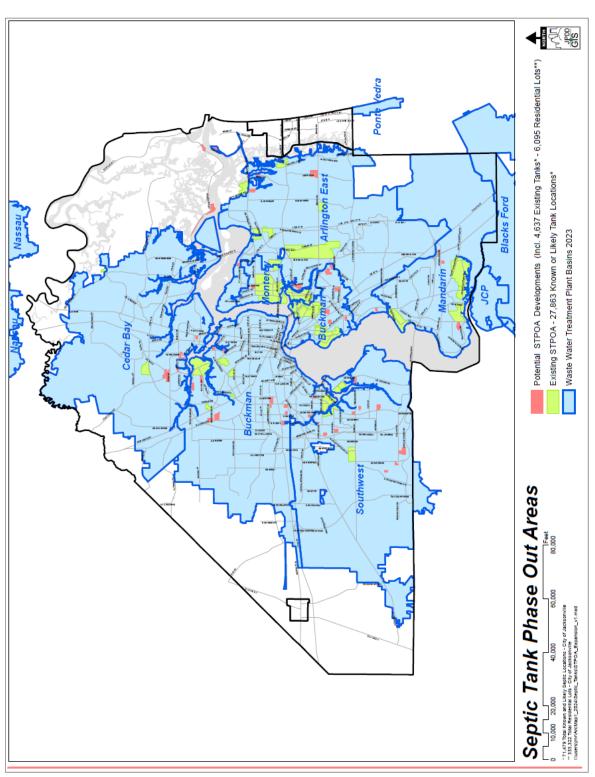
5. Paving and Drainage improvements: \$27,000/home

Within JEAs Septic Tank Analysis, the 61 areas were categorized on which Water Reclamation Facility (WRF) would receive the Development Discharge. In all cases, the receiving wastewater facility has sufficient capacity to serve the 61 identified areas. The total cost to phase out the 61 identified septic tank areas is \$652,054,000 based on current dollars.

The Septic Tank Matrix, created to implement the Water / Wastewater System Improvement Program, covers 35 neighborhoods originally identified by the Department of Health for a septic tank education program where there were concerns about septic tank failures. This list contains approximately 23,167 septic tanks and there are approximately 60,000 to 75,000 septic tanks in Duval County. The overall estimated cost of connecting these neighborhoods in today's (2024) dollars is approximately \$1.5 billion. The 2 neighborhoods that are currently complete or actively connecting total \$59 million. Christobel, while under design, is estimated to cost \$34 million removing approximately 500 septic tanks. And, while very preliminary, project costs for Riverview are anticipated to exceed \$100 million and will remove approximately 2,300 septic tanks. While the City has been phasing out septic tanks for over 20 years, the current Septic Tank Phase-Out program has been in operation for 7 years. In the next 20 years, we believe we may be able to complete five neighborhoods: Riverview, Champion Forest, Emerson, St. Nicholas, and Eggleston Heights if the ranking stays as is.

The City will continue to prioritize septic tank phase out projects in accordance with the Water / Wastewater System Improvement Program and finds that phase out programs for five of the 35 target areas will take more than 20 years. Therefore, it is not feasible to phase out all septic tanks identified in this analysis within 10 years.

Map 1 – Septic Tank Phase Out Areas



APPENDIX A- JEA SEPTIC TANK ANALYSIS REPORT

Septic Tank Analysis for City of Jacksonville's Comprehensive Plan

MAY 21, 2024

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Lynnwood S/D	13
Forrest Brook Unit 2	14
Eisenhower Acres	15
Timuquana Manor	16
Ortega Manor	17
Timber Creek Unit 01	18
Falcon Trace Unit 02	19
Pleasant Oaks	20
Indian Trails	21
Monterey WRF	22
Lake Lucina Unit 08	23
Mandarin WRF	24
Rippling Creek Homesits	25
Mandarin Meadows R/P	26
Wilshire Condominium	27
Greenland Oaks Mandarin 03	28
Buckman WRF	29
Golfair Terrace	31
Westwood Estates	32
Lake Forest Manor	33
Holmesdale S/D	34
Ribault Hills Unit 03 R/P	35
Edmondsons Beverly Hill 3	36
Harvey, S. Addn to Jax	37

Edgewood Park	38
Edgewood Estates	39
Murray Hill Gardens	40
Edgefield	41
Englewood Sec C	42
Sharpsburg	43
Fleetwood	44
Greenfield Manor	45
Home Garden Estates	46
St Johns Park	47
Arlington East WRF	48
Glynlea Park Unit 01	50
Glynlea Park Unit 02	51
Silver Lake Terrace	52
Montclair	53
Fairmont S/D	54
Brackridge	55
Golden Glades Unit 01	56
Golden Glades Unit 02	57
Mayport	58
Blackhawk Bluff	59
Tiffany Pines	60
Ashley Oaks	61
Cedar Bay	62
GARDEN CITY NE 1/4 OF SE (Area 1)	63
GARDEN CITY NE 1/4 OF SE (Area 2)	64
Garden City NE 1/4 of SE (3)	65
Johnsons R/P LT 6 Lem Turner	66
Hollyford Addition	67
Highlands Unit 04	68
Highlands Unit 04A	69
Highlands Unit 05	70
Pineview	71

Introduction

Pursuant to Chapter 163.3177(6)(c)3, the City of Jacksonville (COJ) is required to provide a feasibility study that specifies any development of more than 50 residential lots with more than one onsite sewage treatment and disposal system, such as a septic tank, within a 10-year planning horizon to identify the names, locations, and future connections to a municipal wastewater facility. The COJ has reached out to JEA to aid in this study.

Septic Tank Locations

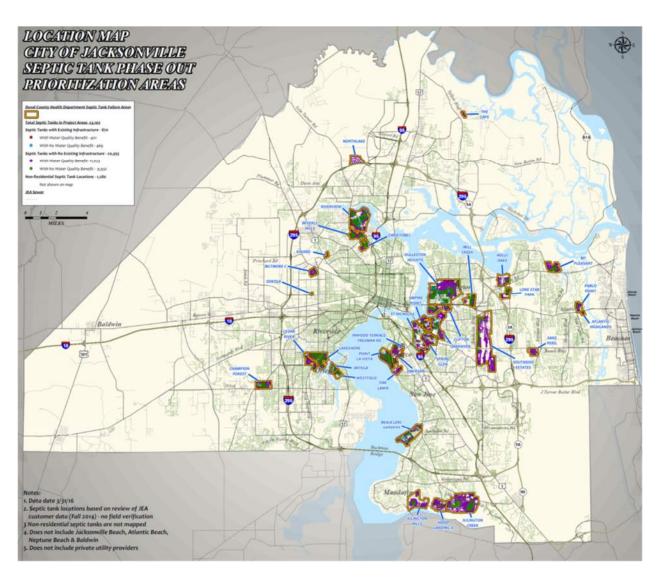
In February of 2024, the COJ completed their analysis of developments with 50 or more residential lots with more than one septic tank system per acre within the city's limits. The 61 developments and their lot counts were identified listed below:

SUBDESC	COUNT_RE
GOLFAIR TERRAC	225
WESTWOOD ESTATES	68
HYDE PARK ESTATES	58
SWEETWATER PARK ADDN NO 2	88
SWEETWATER PARK ADDN NO 3	64
GARDEN CITY NE 1/4 OF SE	96
GARDEN CITY SE 1/4 OF SE	64
GARDEN CITY SE 1/4 OF SE	76
JOHNSONS R/P LT 6 LEM TUR	72
HOLLYFORD ADDITION	59
LAKE FOREST MANOR	62
HOLMESDALE S/D	94
RIBAULT HILLS UNIT 03 R/P	123
EDMONDSONS BEVERLY HILL 3	97
HIGHLANDS UNIT 04	114
HIGHLANDS UNIT 04A	167
HIGHLANDS UNIT 05	172
PINEVIEW	78
HARVEY, S. ADDN TO JAX	273
EDGEWOOD PARK	97
EDGEWOOD ESTATES	65
MURRAY HILL GARDENS	103
EDGEFIELD	70
HYDE PARK CIRCLE	68
LYNNWOOD S/D	94
FORREST BROOK UNIT 02	65
EISENHOWER ACRES	73
TIMUQUANA MANOR	119
ORTEGA MANOR	70
LAKE LUCINA UNIT 08	202
ENGLEWOOD SEC C	118

SUBDESC	COUNT_RE
GLYNLEA PARK UNIT 01	218
GLYNLEA PARK UNIT 02	202
SILVER LAKE TERRACE	50
SHARPSBURG	99
FLEETWOOD	65
MONTCLAIR	58
FAIRMONT S/D	127
BRACKRIDGE	158
GREENFIELD MANOR	110
RIPPLING CREEK HOMESITS	62
MANDARIN MEADOWS R/P	102
HECKSCHER DR ESTATES 01	73
HECKSCHER DR ESTATES 02	71
HECKSCHER DR ESTATES 04	60
GOLDEN GLADES UNIT 01	143
GOLDEN GLADES UNIT 02	123
MAYPORT	132
JOHNSONS S/D PT BAT ISLND	58
WILSHIRE CONDOMINIUM	80
BLACKHAWK BLUFF	101
TIMBER CREEK UNIT 01	62
TIFFANY PINES	139
FALCON TRACE UNIT 02	55
ASHLEY OAKS	75
PLEASANT OAKS	54
GREENLAND OAKS MANDARN 03	3 54
SHELL BAY UNIT TWO	93
INDIAN TRAILS	164
HOME GARDEN ESTATES	191
ST JOHNS PARK	103

From this list, JEA determined the nearest points of connection for each development, the total capacity of each development based on 200 GPD/home, the wastewater facility receiving flow, and the projected wastewater flow at that facility for the next 20 years.

Prior to this change in statues, COJ and JEA partnered to create a Septic Tank Phase Out program, which was approved on August 23, 2016. Five (5) areas were prioritized based on community needs and environmental impacts to nearby waterways: Biltmore C, Beverly Hills East, Beverly Hills West, Christobel, and Riverview. The Septic Tank Phase Out prioritized areas designated by COJ/JEA are shown below. The additional 61 developments were in addition to these areas.



Opinion of Probable Cost

Using the Christobel STPO 10% submittal as a basis of cost, the following values were used in providing an Opinion of Probable cost for each of the Developments:

1. Force main extension: \$75/in/ft

2. Pump Station: \$2,000,000

3. Sewer Connection and septic tank abandonment: \$10,000/home

4. Gravity sewer system: \$52,000/home

5. Paving and Drainage improvements: \$27,000/home

Septic Tank Analysis for City of Jacksonville's Comprehensive Plan May 21, 2024

Summary Tables

The 61 areas provided by the COJ were categorized based on which Water Reclamation Facility (WRF) receives the development discharge. In all cases, the receiving wastewater facility has sufficient capacity to serve the identified areas. The total cost to phase out these identified septic tank areas is \$652,054,000 based on current dollars. Summary tables of each of the developments, proposed flows, opinion of probable costs and a proposed construction timeline are listed below.

Waste	water Fa	cility:	Southwest Wastewater Reclama	tion Facility			
Locatio	n:		5420 118th St, Jacksonville, FL 322	244			
Curren	t Capacit	ty:	14 MGD				
Future	Capacity	/ :	16 MGD (2025); 18 MGD (2040)				
FID 🔼	SUB 🔼	No. 🔼	SUBDESC	COUNT_RE	ADF Flow (GPD)	Total Cost 🗾	ConstructionYear 🔀
2	132	1	HYDE PARK ESTATES	58	11,600	\$9,388,600	> 2045
3	164	2	SWEETWATER PARK ADDN NO 2	88	17,600	\$10,181,600	> 2045
4	165	3	SWEETWATER PARK ADDN NO 3	64	12,800	\$7,404,800	> 2045
23	1157	4	HYDE PARK CIRCLE	68	13,600	\$14,822,600	> 2045
24	1670	5	LYNNWOOD S/D	94	18,800	\$10,875,800	> 2045
25	1680	6	FORREST BROOK UNIT 02	65	13,000	\$10,510,500	> 2045
26	1683	7	EISENHOWER ACRES	73	14,600	\$11,163,100	> 2045
27	1769	8	TIMUQUANA MANOR	119	23,800	\$13,768,300	> 2045
28	1770	9	ORTEGA MANOR	70	14,000	\$8,099,000	> 2045
51	3730	10	TIMBER CREEK UNIT 01	62	12,400	\$10,163,400	> 2045
53	4091	11	FALCON TRACE UNIT 02	55	11,000	\$9,353,500	> 2045
55	4292	12	PLEASANT OAKS	54	10,800	\$9,237,800	> 2045
58	20025	13	INDIAN TRAILS	164	32,800	\$22,744,800	> 2045
			Totals	1,034	206,800	147,713,800	

Wastew	ater Facility:	Mont	erey WRF				
Location	1:	5802 I	Harris Aven	ue			
Current	Capacity:	3.6 M	GD				
Future (Capacity:	No pl	ans for exp	ansion			
FID 🔼 S	UB SUBDESC	COU	IT_RE 🔼 A	DF Flow ((GPD) 🔼	Total Cost 🔼	Construction Year
29	2061 LAKE LUCINA UNIT 08		202		40,400	\$26,049,400	> 2045
						_	
Wastewa	ter Facility:		Mandarin W	/RF			
Location:			10828 Hamp	ton Road			
Current C	Capacity:		8.75 MGD				
Future Capacity:			No plans for	rexpansio	n		
FID 🔼 SL	JB <u> </u>	~	COUNT_RE	🔼 ADF Flo	ow (GPD) 🔼	Total Cost	Construction Year
40	1 RIPPLING CREEK HOMESITS	;		62	12,40	\$10,046,400	> 2045
41	2 MANDARIN MEADOWS R/F)	1	02	20,40	\$15,571,400	> 2045
49	3 WILSHIRE CONDOMINIUM			80	16,00	\$12,051,000	> 2045

54

298

10,800

59,600 \$46,750,600

\$9,081,800 > 2045

4 GREENLAND OAKS MANDARN 03

TOTALS

56

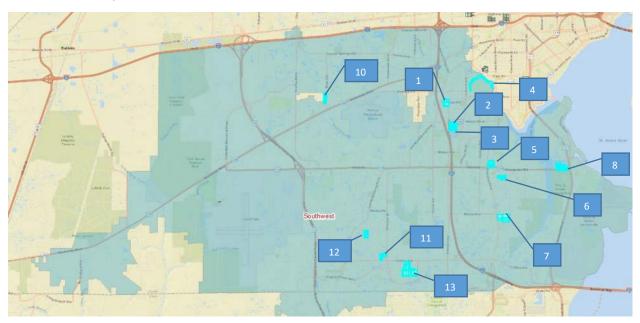
Substantify: Buckman WRF	ear 💌
Current Capacity: 52.5 MGD Future Capacity: No plans for expansion COUNT_RE ADF Flow (GPD) Total Construction Veraging 0 1 GOLFAIR TERRAC 225 45,000 \$31,557,500 > 2045 1 2 WESTWOOD ESTATES 68 13,600 \$10,857,600 > 2045 10 3 LAKE FOREST MANOR 62 12,400 \$11,411,400 > 2045 11 4 HOLMESDALE S/D 94 18,800 \$13,943,800 > 2045 12 5 RIBAULT HILLS UNIT 03 R/P 123 24,600 \$17,026,100 > 2045 13 6 EDMONDSONS BEVERLY HILL 3 97 19,400 \$16,455,400 > 2045 18 7 HARVEY, S. ADDN TO JAX 273 54,600 \$35,063,600 > 2045 19 8 EDGEWOOD PARK 97 19,400 \$14,056,900 > 2045 20 9 EDGEWOOD ESTATES 65 13,000 \$10,705,500 > 2045 21 10 MURRAY HILL GARDENS 103 20,600 \$11,089,000 > 2045 <t< td=""><td>ear 🔽</td></t<>	ear 🔽
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Future Capacity: No plans for expansion	
FID SUB SUBDESC COUNT RE ADF Flo Total Construction Year	
	ar 🔽
31 2562 GLYNLEA PARK UNIT 01 218 43,600 \$28,407,600 > 2045	
32 2564 GLYNLEA PARK UNIT 02 202 40,400 \$26,380,900 > 2045	
33 2656 SILVER LAKE TERRACE 50 10,000 \$8,580,000 > 2045	
36 2809 MONTCLAIR 58 11,600 \$9,895,600 > 2045	
37 2863 FAIRMONT S/D 127 25,400 \$17,878,900 > 2045	
38 2865 BRACKRIDGE 158 31,600 \$21,933,600 > 2045	
45 3047 GOLDEN GLADES UNIT 01 143 28,600 \$17,130,100 > 2045	
46 3048 GOLDEN GLADES UNIT 02 123 24,600 \$17,416,100 > 2045	
47 3080 MAYPORT 132 26,400 \$15,272,400 > 2045	
50 3485 BLACKHAWK BLUFF 101 20,200 \$14,363,700 > 2045	
52 4057 TIFFANY PINES 139 27,800 \$19,462,300 > 2045	
54 4175 ASHLEY OAKS 75 15,000 \$11,667,500 > 2045	
TOTALS 1526 305,200 \$208,388,700	

Waste	water Fa	acility:	Cedar Bay W	RF			
Locatio	on:		1840 Cedar B	ay F	Rd		
Curren	it Capaci	ity:	10 MGD				
Future	Capacit	ry:	No plans for	ехр	ansion		
FID 🔽	SUB 💌	SUBDESC	COUNT_RE	A	DF Flc🔼	Total 🔼	Construction Year
5	237	GARDEN CITY NE 1/4 OF SE	9	6	19,200	\$14,253,200	> 2045
6	238	GARDEN CITY SE 1/4 OF SE	6	4	12,800	\$10,394,800	> 2045
7	239	GARDEN CITY SE 1/4 OF SE	7	6	15,200	\$11,783,200	> 2045
8	250	JOHNSONS R/P LT 6 LEM TUR	7	2	14,400	\$11,320,400	> 2045
9	260	HOLLYFORD ADDITION	5	9	11,800	\$9,816,300	> 2045
14	687	HIGHLANDS UNIT 04	11	4	22,800	\$16,569,800	> 2045
15	688	HIGHLANDS UNIT 04A	16	7	33,400	\$22,311,900	> 2045
16	689	HIGHLANDS UNIT 05	17	2	34,400	\$22,890,400	> 2045
17	705	PINEVIEW	7	8	15,600	\$12,404,600	> 2045
		TOTALS	89	8	179600	\$131,744,600	

Southwest

Southwest Water Reclamation Facility has a permitted capacity of 14.0 MGD AADF WRF providing advanced secondary treatment with nitrogen reduction. Southwest serves a region mostly built out around the facility. Construction is underway for expanding treatment capacity to 16 MGD expected to be completed in 2025, with a second expansion to 18 MGD planned in the future.

Thirteen (13) septic tank developments were identified by COJ that are within the Southwest Sewer Basin. Their connection points, flows and information are listed below.



No.	SUBDESC
1	HYDE PARK ESTATES
2	SWEETWATER PARK ADDN NO 2
3	SWEETWATER PARK ADDN NO 3
4	HYDE PARK CIRCLE
5	LYNNWOOD S/D
6	FORREST BROOK UNIT 02
7	EISENHOWER ACRES
8	TIMUQUANA MANOR
9	ORTEGA MANOR
10	TIMBER CREEK UNIT 01
11	FALCON TRACE UNIT 02
12	PLEASANT OAKS
13	INDIAN TRAILS

Southwest WRF Flow Summary (fiscal year average, mgd)

				0,0	•					
Historical	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Historical	8.92	8.22	9.12	9.58	10.73	10.67	10.54	11.09	12.04	11.19
2020	2021	2022	2023	Dualastad	2024	2025	2030	2035	2040	2045
11.72	12.37	12.29	11.81	Projected	12.76	13.04	13.91	15.02	16.05	16.99

Septic Tank Analysis for City of Jacksonville's Comprehensive Plan May 21, 2024

Hyde Park Estates

Hyde Park Estates is located at the north of Wilson Boulevard, East of I-295, West of Firestone Road, and south of Hyde Grove Avenue. There is a total of 58 lots within this development, shown in the highlighted green polygons below.



The blue dots in the map above represent sewer customers that are already connected to municipal sewer (12 lots).

Gravity sewer and a minimum of one pump station would need to be installed to serve the remaining 46 lots and could potentially discharge to the existing force main on Firestone Road to the existing pump station at 2601 Hugh Edwards Drive. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [♦] —		Flow PD)		our Flow PM)		PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg ♦	Range 🌲	Avg 🌲	Range 🌲	Avg ♦	Range 🌲
All			Al	Al								
SOUTHWEST	WEST	LS- 001116	HUGH EDWARDS DR - 2601	78.5	304.2	± 20.1	726.1	± 42.7	945.9	± 33.7	76.8	± 6.2

Sweetwater Park Addition No 2 and 3

Sweetwater Park Addition No 2 and 3 are located south of Wilson Road, east of I-295, North of Moses Street and west of Goodrich Road. There is a total of 88 lots within Addition 2 and 64 lots within Addition 3, shown in the highlighted green polygons below.



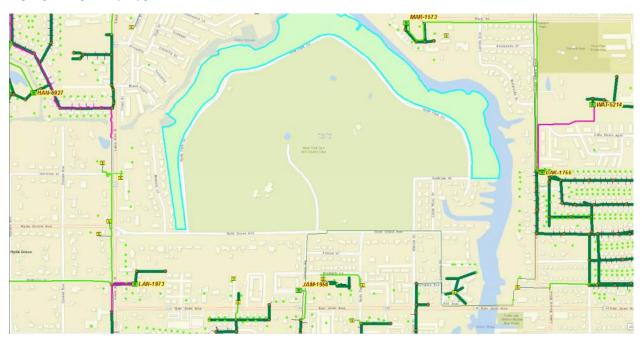
The blue dots in the map above represent sewer customers that are already connected to municipal sewer (26 in Addition 2 and 18 lots in Addition 3).

Gravity sewer would need to be installed to serve the remaining 108 lots and could potentially discharge to the existing 6217 Wilson Boulevard. Below is the Capacity Analysis Report for that pump station:

				De	emographics			Ca	pacity	
♦ Basin	♦ Grid	♦ CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)
All			Al		<i>F</i>		F		All	All
SOUTHWEST	WEST	LS- 002445	WILSON BV - 6217	4231	2095	24.5	1147	2305	2360	97.7

Hyde Park Circle

Hyde Park Circle is located south of Park Street, east of Lane Avenue S, North of Hyde Grove Avenue and west of Lake Shore Boulevard. There is a total of 68 lots within Hyde Park Circle, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. This development could potentially discharge to the existing pump station at 1973 Lane Avenue. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [†] –	Daily (kG	Flow PD)		our Flow PM)		PM)	Utilizat	tion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg ♦	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺
All			Al	Al								
SOUTHWEST	WEST	LS- 001261	LANE AV S - 1973	12.6	5	± 1.2	15	±3.5	76.9	± 10	19.6	± 3.4

Lynnwood S/D

Lynnwood S/D is located south of Dorminy Avenue, east of Blanding Blvd, North of 103rd Street and west of Wesconnett Boulevard. There is a total of 94 lots within the Lynnwood S/D, shown in the highlighted green polygons below.



Gravity sewer would need to be installed and could potentially discharge to the existing 5940 Swamp Fox Rd Pump Station. Below is the Capacity Analysis Report for that pump station:

A	\$	\$	A	Wetwell [⊕] —		Flow FPD)		our Flow PM)	-	Flow PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg 🏺	Range 🌲	Avg ϕ	Range 🏺	Avg 🏺	Range 🏺
All			Al	Al								
SOUTHWEST	WEST	LS- 002244	SWAMP FOX RD - 5940	80	71.9	± 15.9	194.1	± 40.2	464.9	±80.1	41.7	± 3.7

Forrest Brook Unit 2

Forrest Brook Unit 2 is located south of 105th St, east of Wesconnett Boulevard, North of Fishing Creek and west of Seaboard Avenue. There is a total of 65 lots within the Forrest Brook Unit 2 development, shown in the highlighted green polygons below.

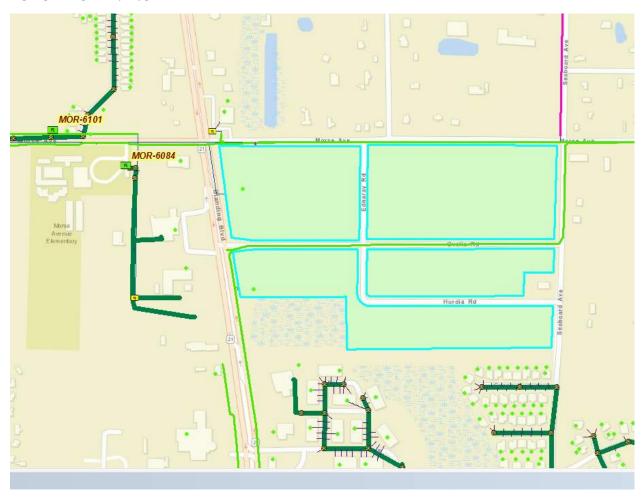


Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge through the gravity system along Wesconnett and to the existing pump station at 5823 118th Street. Below is the Capacity Analysis Report for that pump station:

\$	A	A	\$	Wetwell [†] –	Daily (kG			our Flow PM)		Flow PM)	Utilizat	tion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🌲
All			Al	Al								
SOUTHWEST	WEST	LS- 000047	118TH ST - 5823	50.3	135.7	± 8.7	349.7	± 20.4	387.3	±7.6	90.3	±5.9

Eisenhower Acres

Eisenhower Acres is located south of Morse Ave, east of Blanding Boulevard, north of Skaff Ave and west of Seaboard Avenue. There is a total of 73 lots within the Eisenhower Acres Development, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge into the force main along Morse Avenue that leads directly to the Southwest WRF.

Timuquana Manor

Timuquana Manor is located south of Morse Ave, east of Blanding Boulevard, north of Skaff Ave and west of Seaboard Avenue. There is a total of 119 lots within the Eisenhower Acres Development, shown in the highlighted green polygons below.



The blue dots in the map above represent sewer customers that are already connected to municipal sewer (31 lots).

The remaining 88 lots could be served via gravity sewer. This sewer would then pump into the existing pump station at 4881 Timuquana Road. Below is the Capacity Analysis Report for that pump station:

				Demographics				Ca	pacity	
Basin	♦ Grid	¢ CMMS	Address	SFR (ERC) [⊕]	MFR (Units)	CII (%) [♦]	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)
All			All		,		ŀ		All	All
SOUTHWEST	WEST	LS- 002277	TIMUQUANA RD - 4881	2600	407	12.9	567	1258	2800	44.9

Ortega Manor

Ortega Manor is located south of Morse Ave, east of Blanding Boulevard, north of Skaff Ave and west of Seaboard Avenue. There is a total of 70 lots within the Ortega Manor Development, shown in the highlighted green polygons below.



The blue dots in the map above represent sewer customers that are already connected to municipal sewer (21 lots).

The remaining 49 lots could be served via gravity sewer. This sewer would then pump into the existing pump station at 4881 Timuquana Road. Below is the Capacity Analysis Report for that pump station:

				Demographics				Ca	pacity	
Basin	♦ Grid	¢ CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)
All			All		1		ŀ		All	All
SOUTHWEST	WEST	LS- 002277	TIMUQUANA RD - 4881	2600	407	12.9	567	1258	2800	44.9

Timber Creek Unit 01

Timber Creek Unit 01 is located south of Crystal Springs Road, east of McGirts Creek, north of Normandy Boulevard and west of Blair Road. There is a total of 62 lots within the Timber Creek Unit 01 Development, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the existing pump station at 2138 Rothbury Drive. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	A	Wetwell ^{\$}	Daily (kG			our Flow PM)		PM)	Utilizat	tion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg ∜	Range 🏺	Avg 🏺	Range 🏺	Avg ♦	Range 🏺
All			Al	Al								
SOUTHWEST	WEST	LS- 001922	ROTHBURY DR - 2138	78.5	87.4	± 19.2	232.9	± 47.5	319.3	± 70.9	73.8	±17.4

Falcon Trace Unit 02

Falcon Trace Unit 02 is located south of Walden Road, east of Brent Forest Drive, north of Collins Road and west of Shindler Drive. There is a total of 55 lots within the Falcon Trace Unit 02 Development, shown in the highlighted green polygons below.

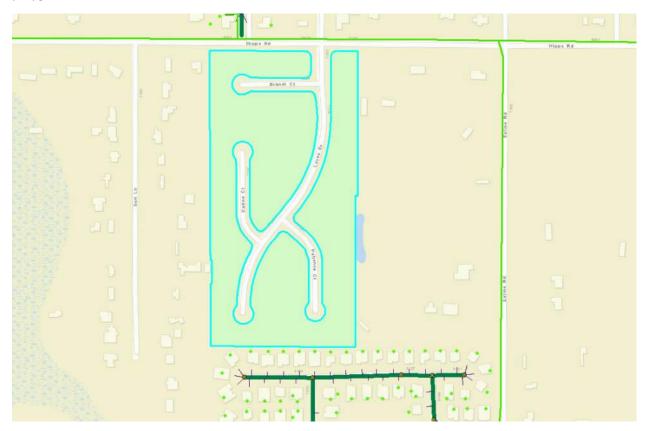


Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the existing force main along Collins Road through the existing gravity system to the existing pump station at Collins Ridge Boulevard. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [♦] —		Flow PD)		our Flow PM)		PM)	Utilizat	tion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🌲
All			Al	Al								
SOUTHWEST	WEST	LS- 000609	COLLINS RIDGE BV N - 8529	28.3	35.6	±9.2	100	± 24.5	224.1	± 64.1	45	±7.4

Pleasant Oaks

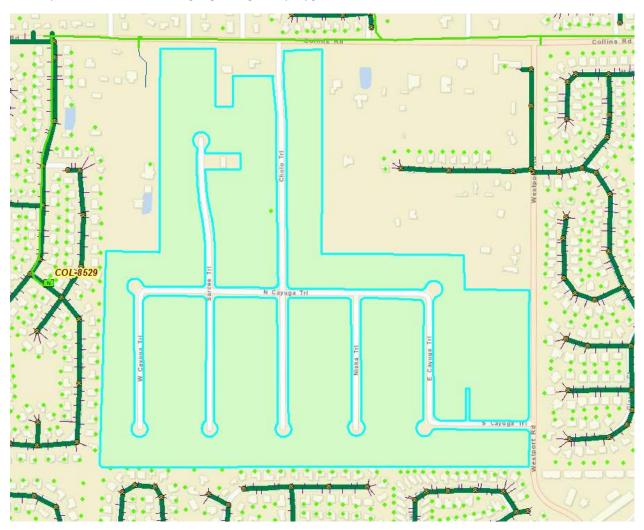
Pleasant Oaks is located south of Hipps Road, east of Exline Road, north of Jennifer Lane and west of Sun Lane. There is a total of 54 lots within the Pleasant Oaks Development, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the existing force main along Hipps Road that goes to the Southwest WRF.

Indian Trails

Indian Trails is located south of Collins Road, north of Crosswind Road, east of East Collins Ridge Boulevard, and West of Westport Road. There is a total of 164 lots within the Indian Trails development, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the existing force main along Shindler Drive and to the existing gravity system along Collins Road to the existing pump station at 7663 Argyle Forest Boulevard. Below is the Capacity Analysis Report for that pump station:

△	\$	\$	\$	Wetwell	Daily (kG			our Flow PM)	-	PM)	Utilizat	tion (%)
Basin	Grid	CMMS	Address	(SF)	Avg ♦	Range 🏺	Avg 🌲	Range 🏺	Avg 🌲	Range 🏺	Avg 🏺	Range 🏺
All			Al	Al								
SOUTHWEST	WEST	LS- 000118	ARGYLE FOREST BV - 7663	113.1	270.6	±29.8	654	± 64.3	1684.2	± 68.1	38.9	± 4.4

Septic Tank Analysis for City of Jacksonville's Comprehensive Plan May 21, 2024

Monterey WRF

Monterey is an activated sludge 3.6 AADF facility providing service to a mostly residential population. This region is nearly built out.

One septic tank development was identified by COJ that are within the Monterey Sewer Basin. It's connection points, flows and information are listed below.

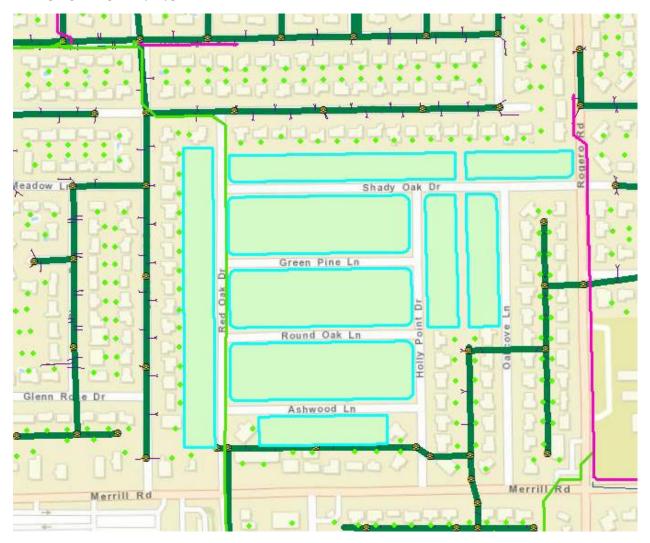


Monterey WRF Flow Summary (fiscal year average, mgd)

Maria de al	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Historical	1.54	1.54	1.39	1.46	1.38	1.86	1.51	2.04	1.64	1.58
2020	2021	2022	2023	Projected	2024	2025	2030	2035	2040	2045
2.01	2.35	2.38	2.29	Trojecteu	2.29	2.31	2.39	2.47	2.54	2.60

Lake Lucina Unit 08

Lake Lucina Unit 08 is located south of Anvil Road, North of Merrill Road, East of Searchwood Dr and West of Rogero Road. There is a total of 202 lots within the Lake Lucina Unit 08 Development, shown in the highlighted green polygons below.

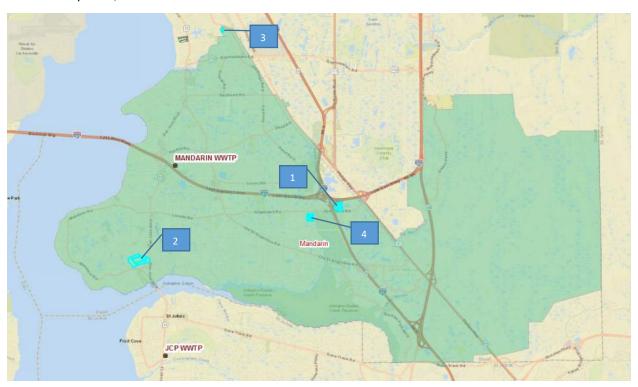


Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the existing force main along Red Oak Drive that discharges directly to the Monterey WWTP.

Mandarin WRF

Mandarin WRF provides advanced secondary treatment for up to 8.75 mgd AADF of wastewater flow. Etown and a portion of US-1 currently flows to Mandarin WRF (region east of US-1)); when Greenland WRF goes into service, this area will be redirected to Greenland WRF from the Mandarin service area.

Four septic tank developments were identified by COJ that are within the Mandarin Sewer Basin. Their connection points, flows and information are listed below.



SUB		SUBDESC
	1	RIPPLING CREEK HOMESITS
	2	MANDARIN MEADOWS R/P
	3	WILSHIRE CONDOMINIUM
	4	GREENLAND OAKS MANDARN 03

Mandarin WRF Flow Summary (fiscal year average, mgd)

Historical	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
	6.72	6.80	7.41	7.61	7.61	7.92	7.71	7.98	7.59	6.76
2020	2021	2022	2023	Projected	2024	2025	2030	2035	2040	2045
6.99	7.68	7.10	7.16		7.98	6.85	7.14	7.14	7.14	7.14

Rippling Creek Homesites

Rippling Creek Homesites is located south of I-295, East of Gerado Drive, north of Greenland Road, and West of I-95. There is a total of 62 lots within the Rippling Creek Homesites, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the existing force main along Greenland Road that discharges to the Oldfield booster station and directly to the Mandarin WRF. Below is the Capacity Analysis Report for that pump station:

				Demographics			Capacity				
♦ Basin	♦ Grid	♦ CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)	
Al			Al		1		4		All	All	
MANDARIN	SOUTH	BPS- 001645	OLDFIELD CROSSING - 4193	21157	1175	34.2	5236	8167	9370	87.2	

Mandarin Meadows R/P

Mandarin Meadows R/P is located south of Flynn Road, East Brady Road, north of Westberry Road and West San Jose Boulevard. There is a total of 102 lots within the Mandarin Meadows R/P, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the existing force main along Brady Road or Mandarin Road. The force main then continues through to the existing Pump Station at 2520 Orange Picker Road. Below is the Capacity Analysis Report for that pump station:

				Demographics			Capacity				
♦ Basin	♦ Grid	♦ CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)	
Al			Al		į		-		All	All	
MANDARIN	SOUTH	LS- 001647	ORANGE PICKER RD - 2520	1685	0	22	434	994	1370	72.6	

Wilshire Condominium

Wilshire Condominium is located south of Old Kings Road S, West of Oxford Forest Drive, North of San Clerc Road, and east of Plaza Gate Lane. There is a total of 80 lots within the Wilshire Condominium, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the existing gravity sewer system along Oxford Forest Drive. The force main then continues through to the existing Pump Station at 8198 Oxford Forest Drive. Below is the Capacity Analysis Report for that pump station:

*	\$	\$	*	Wetwell [†] –	-	Flow PD)		our Flow PM)		PM)	Utilizat	tion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range
Al			Al	Al								
MANDARIN	SOUTH	LS- 001627	OXFORD FOREST DR - 8198	64	14.2	± 2	41.4	± 5.8	368.6	± 25.5	11.2	± 1.6

Greenland Oaks Mandarin 03

Greenland Oaks Mandarin 03 is located south of Greenland Road, West of Lake Fern Road, East of Greenland Oaks Drive, and north of Alden Bridge Drive. There is a total of 80 lots within the Wilshire Condominium, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the force main along Greenland Road that discharges to the Oldfield booster station and directly to the Mandarin WRF. Below is the Capacity Analysis Report for that pump station:

4		\$	\$	Wetwell ^{\$\rightarrow\$}		Flow PD)		our Flow PM)		PM)	Utilizat	tion (%)
Basin	Grid	CMMS	Address	(SF)	Avg $\mbox{$\phi$}$	Range 🏺	Avg ≑	Range 🏺	Avg ♦	Range 🏺	Avg 🏺	Range 🏺
Al			Al	Al								
MANDARIN	SOUTH	LS- 001627	OXFORD FOREST DR - 8198	64	14.2	±2	41.4	± 5.8	368.6	± 25.5	11.2	± 1.6

Buckman WRF

Buckman is a 52.5 mgd AADF activated sludge WRF that serves a region well established with commercial and residential customers, with a significant contribution from industrial customers. Buckman WRF receives the highest volume, on average, of industrial waste compared to all other JEA wastewater treatment facilities.

Seventeen (17) septic tank developments were identified by COJ that are within the Buckman Sewer Basin. Their connection points, flows and information are listed below.



SUB	SUBDESC
1	GOLFAIR TERRAC
2	WESTWOOD ESTATES
3	LAKE FOREST MANOR
4	HOLMESDALE S/D
5	RIBAULT HILLS UNIT 03 R/P
6	EDMONDSONS BEVERLY HILL 3
7	HARVEY, S. ADDN TO JAX
8	EDGEWOOD PARK
9	EDGEWOOD ESTATES
10	MURRAY HILL GARDENS
11	EDGEFIELD
12	ENGLEWOOD SEC C
13	SHARPSBURG
14	FLEETWOOD
15	GREENFIELD MANOR
16	HOME GARDEN ESTATES
17	ST JOHNS PARK

^{*}Developments Brackridge and Fairmont are within Buckman Sewer Basin, however, the proposed discharge points are to the Arlington East WRF and are listed there.

Buckman WRF Flow Summary (fiscal year average, mgd)

Historical	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
nistoricai	24.86	20.55	23.06	23.98	26.18	30.79	28.92	29.79	26.17	24.00
2020	2021	2022	2023	Duningtod	2024	2025	2030	2035	2040	2045
25.84	27.18	27.33	25.46	Projected	27.32	27.49	28.34	29.19	30.04	30.89

Golfair Terrace

Golfair Terrace is located south of Dallas Lane, East of Old Kings Road, North of Moncrief Road, and west of Harding Avenue. There is a total of 225 lots within the Golfair Terrace, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the force main along New Kings Road. The force main then continues through to the existing Pump Station at 5730 Kinlock Drive S. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [♦] -	-	Flow iPD)		our Flow PM)	-	Flow PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🌲	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺
А			Al	Al								
BUCKMAN	NORTH	LS- 001197	KINLOCK DR S - 5730	144	165.5	± 44.5	419.3	± 101.4	964.1	±99.3	43.5	± 11.7

Westwood Estates

Westwood Estates is located south Beaver Street, East of St. Andrews Street, North of Highway Avenue, and west of Lane Avenue S. There is a total of 68 lots within the Westwood Estates, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the force main along Lane Avenue S. The force main then continues through to the existing Pump Station at 6630 Broadway Avenue. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [♦] —		Flow PD)		our Flow PM)		PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg ♦	Range 🏺
А			All	Al								
BUCKMAN	WEST	LS- 000476	BROADWAY AV - 6630	50.3	53.3	± 12.5	146.6	± 32.4	922.6	± 83.8	15.9	± 3.4

Lake Forest Manor

Lake Forest Manor is located south of Applan Way, North of Edgewood Avenue West, East of I-95, and west of Moncrief Creek. There is a total of 62 lots within the Lake Forest Manor, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the force main along Edgewood Avenue W to an existing gravity sewer system to the existing pump station at 7605 Pickett Street. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [♦] —	Daily (kG		Peak Ho (GF			PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg ♦	Range 🏺	Avg 🏺	Range 🏺
А			Al	Al								
BUCKMAN	NORTH	LS- 001754	PICKETT ST - 7605	50.3	10.5	± 3.1	30.9	± 8.8	184.1	± 21.7	17	± 6.4

Holmesdale S/D

Holmesdale S/D is located west of the Moncrief Creek, North of Norwood Drive, and east of I-95. There is a total of 94 lots within the Holmesdale S/D, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the force main along Carrollton Road to an existing gravity sewer system to the existing pump station at 6947 Norwood Drive. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [♦] —	Daily (kG		Peak Ho (GP			PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🌲	Avg 🏺	Range 🏺
А			Al	Al								
BUCKMAN	NORTH	LS- 001607	NORWOOD AV - 6947	109	265.1	± 78.9	642	± 172.3	866.6	± 195.5	74.2	± 16

Ribault Hills Unit 03 R/P

Ribault Hills Unit 03 R/P is located south of Rogers Avenue, North of Soutel Drive, East of Ridge Boulevard, and West of Ribault Avenue. There is a total of 123 lots within the Ribault Hills Unit 03 R/P, shown in the highlighted green polygons below.

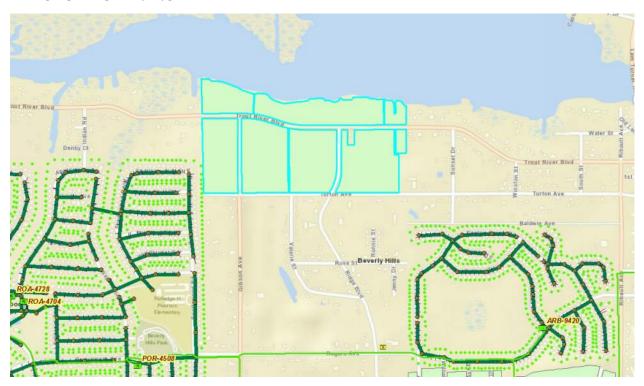


Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the force main along Lansdell Drive to an existing gravity sewer system to the existing pump station at 2304 McMillan Street. Below is the Capacity Analysis Report for that pump station:

				De	emographics			Ca	pacity	
Basin	♦ Grid	♦ CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)
А			Al		1		F		All	All
BUCKMAN	NORTH	LS- 001423	MCMILLAN ST - 2304	27411	3951	39.3	7092	10476	23500	44.6

Edmondsons Beverly Hill 3

Edmondsons Beverly Hill 3 is located south of Trout River, North of Turton Avenue, East of Indian Road, and West of Ribault Avenue. There is a total of 97 lots within the Edmondsons Beverly Hills 3, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to a proposed force main down Gibson Avenue to an existing force main on Rogers Avenue to the existing pump station at 2304 McMillan Street. Below is the Capacity Analysis Report for that pump station:

				De	emographics			Ca	pacity	
Basin	♦ Grid	♦ CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)
А			Al		1		F		All	All
BUCKMAN	NORTH	LS- 001423	MCMILLAN ST - 2304	27411	3951	39.3	7092	10476	23500	44.6

Harvey, S. Addn to Jax

Harvey, S Addn to Jax is located south of Commonwealth Avenue, North of Broadway Avenue, East of Edgewood Avenue North, and West of Melson Avenue. There is a total of 273 lots within the Harvey, S Addn to Jax, shown in the highlighted green polygons below.



The blue dots in the map above represent sewer customers that are already connected to municipal sewer (13 lots).

Gravity sewer and at least one pump station would need to be installed to serve the remaining 260 lots and could potentially discharge to the existing force main along Niagara Avenue to the existing gravity sewer system to the existing pump station at 2304 McMillan Street. Below is the Capacity Analysis Report for that pump station:

				De	emographics	;		Ca	pacity	
♦ Basin	♦ Grid	♦ CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)
А			Al		1		ŀ		All	All
BUCKMAN	NORTH	LS- 001423	MCMILLAN ST - 2304	27411	3951	39.3	7092	10476	23500	44.6

Edgewood Park

Edgewood Park is located south Arnold Avenue, North of Harrold Avenue, East of S. Ellis Road, and West of Stevens Street. There is a total of 97 lots within the Edgewood Park development, shown in the highlighted green polygons below.

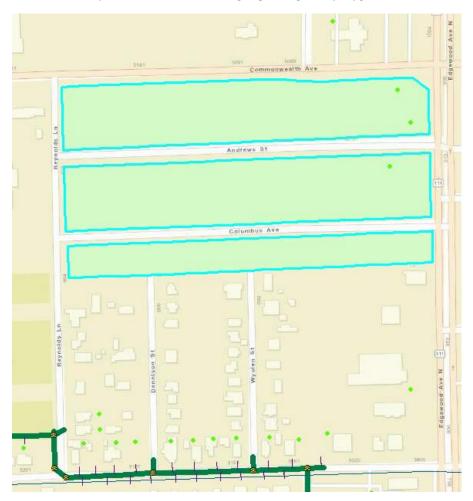


Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to a proposed force main along Tyler Avenue to an existing gravity sewer system along Ellis Road North to the existing pump station at 1060 Ellis Road N. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [†] —	Daily (kG		Peak Ho (GF	our Flow PM)		PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg $\mbox{$\phi$}$	Range 🏺	Avg 🏺	Range 🏺	Avg ♦	Range 🏺	Avg ♦	Range 🏺
А			Al	Al								
BUCKMAN	WEST	LS- 000824	ELLIS RD N - 1060	28.3	68.7	± 34.8	186	±88.7	222.1	±39.1	83.6	±36.8

Edgewood Estates

Edgewood Estates is located south of Commonwealth Avenue, North of Broadway Avenue, East of Reynolds Lane, and West of Edgewood Avenue N. There is a total of 65 lots within the Edgewood Estates development, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to a proposed force main down Reynolds Lane to an existing gravity sewer system to the existing pump station at 5180 Abel Lane. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell +	Daily (kG	Flow PD)	Peak Ho (GF			Flow PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg $\mbox{$\phi$}$	Range 🌲	Avg 🏺	Range 🌲	Avg 🌲	Range 🏺	Avg ♦	Range 🏺
А			Al	Al								
BUCKMAN	WEST	LS- 000058	ABEL LA - 5180	50.3	23.2	± 11.1	66.4	± 30.1	302.5	± 25.4	22.1	±9.1

Murray Hill Gardens

Murray Hill Gardens is located south of Highway Avenue, North of Hancock Road, East of Beautyrest Avenue, and West of Sumter Road. There is a total of 103 lots within the Murray Hill Gardens development, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing pump station along Bragg Road to the existing pump station at 1060 Ellis Road N. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell ^{\$\\\\}	Daily (kG	Flow PD)		our Flow PM)		o Flow PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg ⊕	Range 🏺	Avg 🏺	Range 🏺	Avg ⊕	Range 🏺	Avg ⊕	Range 🏺
А			Al	Al								
BUCKMAN	WEST	LS- 000824	ELLIS RD N - 1060	28.3	68.7	± 34.8	186	± 88.7	222.1	±39.1	83.6	±36.8

Edgefield

Edgefield is located south Cedar Annex Road, North of Park Street, East of Delmar Street, and West of South Ellis Road. There is a total of 70 lots within the Edgefield development, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing force main on S Ellis Road to the existing pump station at 5219 Carder Street. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [♦] −		Flow PD)	Peak Ho (GF	our Flow PM)		Flow PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg ♦	Range 🏺	Avg ♦	Range 🏺	Avg 🏺	Range 🏺	Avg ♦	Range 🏺
А			Al	Al								
BUCKMAN	WEST	LS- 000517	CARDER ST - 5219	78.5	166.5	± 13.3	421.6	± 30.8	1024.3	± 14.6	41.2	±3.3

Englewood Sec C

Englewood Sec C is located south of De Kalb Avenue, Northeast of Phillips Highway, and West of I-95. There is a total of 118 lots within the Englewood Sec C development, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the existing force main along Turner Avenue to the existing pump station at 4425 Clinton Avenue. Below is the Capacity Analysis Report for that pump station:

				Demographics				Capacity				
♦ Basin	♦ Grid	♦ CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)		
А			Al		1		ļ		All	All		
BUCKMAN	NORTH	LS- 001423	MCMILLAN ST - 2304	27411	3951	39.3	7092	10476	23500	44.6		

Sharpsburg

Sharpsburg is located south of Southern Avenue, North of Tabernacle Place South, East of St Augustine Road, and West of Phillips Highway. There is a total of 99 lots within the Sharpsburg development, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to a proposed force main down Linder Avenue to an existing gravity sewer system to the existing pump station at 3929 Grant Road. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [⊕] —	-	Flow PD)	Peak Ho (GF	our Flow PM)		PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg ♦	Range 🏺	Avg 🏺	Range 🏺	Avg 🌲	Range 🏺	Avg 🏺	Range 🌲
А			Al	Al								
BUCKMAN	EAST	LS- 000977	GRANT RD - 3929	113.1	20.1	± 4.2	57.9	± 11.8	399.6	± 52.4	14.5	± 2.9

Fleetwood

Fleetwood is located south of University Blvd West, North of Dupont Avenue, East of Mercer Circle, and West of St. Augustine Road. There is a total of 65 lots within the Fleetwood development, shown in the highlighted green polygons below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to a proposed force main to an existing gravity sewer system to an existing pump station at 2200 Mercer Cir S. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [♦] -	-	Flow PD)		our Flow PM)		PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg $\mbox{$\phi$}$	Range 🏺	Avg 🏺	Range 🏺	Avg ♦	Range 🏺
А			Al	Al								
BUCKMAN	SOUTH	LS- 001444	MERCER CR S - 2200	110	25.2	± 4.1	71.9	± 11.2	192.4	± 39.5	38.2	±8.8

Greenfield Manor

Greenfield Manor is located south of Barnes Road South, North of Bowden Road, East of Victoria Park Road, and West of Parental Home Road. There is a total of 110 lots within the Greenfield Manor development, shown in the highlighted green polygons below.



The blue dot in the map above represents sewer customers that are already connected to municipal sewer (1 lot).

Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to a proposed force main on Barnes Road South to the existing pump station at 4437 Barnes Road. Below is the Capacity Analysis Report for that pump station:

				De	emographics			Ca	apacity	
Basin	♦ Grid	CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)
А			Al		1		1		All	All
BUCKMAN	EAST	LS- 000230	BARNES RD - 4437	1064	1038	63.6	782	1661	2000	83

Home Garden Estates

Home Garden Estates is located south of Moncrief Road W, North of Union Heights Road, East of Old Kings Road, and West of New Kings Road. There is a total of 191 lots within the Home Garden Estates development, shown in the highlighted green polygons below.

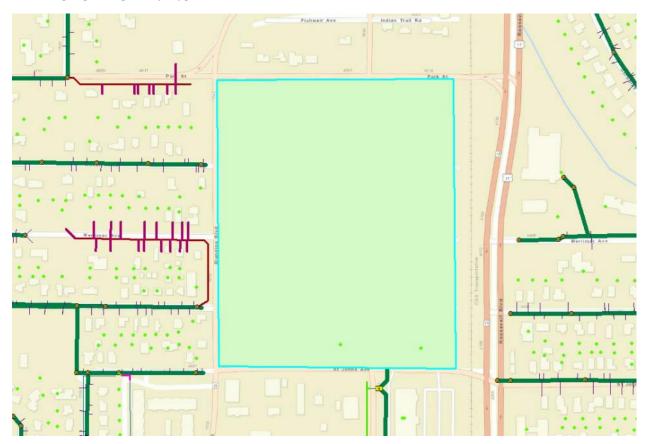


Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to a proposed force main down Moncrief Road W to an existing force main on New Kings Road to the existing pump station at 5730 Kinlock Drive S. Below is the Capacity Analysis Report for that pump station:

				De	emographics	;		Ca	pacity	
Basin	♦ Grid	♦ CMMS	Address	SFR (ERC) [⊕]	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)
А			Al		1		<i>t</i>		All	All
BUCKMAN	NORTH	LS- 001197	KINLOCK DR S - 5730	1344	4	0.2	209	518	1450	0.4

St Johns Park

St Johns Park is located south of Park Street, North of St. Johns Avenue, East of Blanding Boulevard, and West of Roosevelt Boulevard. There is a total of 103 lots within the St Johns Park development, shown in the highlighted green polygon below.



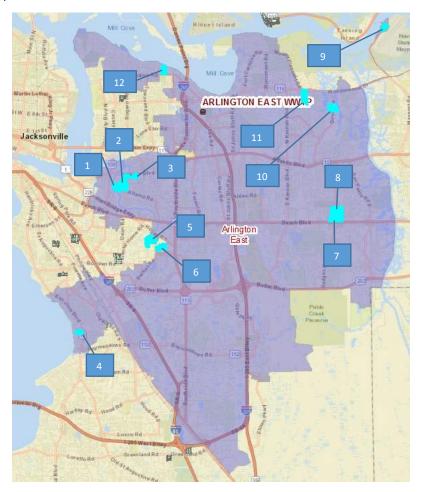
Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing gravity sewer system on Wheeler Avenue to the existing pump station at 4801 Wheeler Avenue. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [♦] —	-	Flow PD)		our Flow PM)	-	PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺
А			Al	Al								
BUCKMAN	WEST	LS- 002419	WHEELER AV - 4801	50.3	38.4	± 6.6	107.5	± 17.4	364.3	±37.6	29.6	± 5.2

Arlington East WRF

Arlington East is a complete mix activated sludge 25.0 mgd AADF facility providing service to commercial and residential customers. Population estimates show this service area is close to buildout.

Twelve (12) septic tank developments were identified by COJ that are within the Arlington East Basin. Their connection points, flows and information are listed below.



No.	SUBDESC	COUNT_RE
1	GLYNLEA PARK UNIT 01	218
2	GLYNLEA PARK UNIT 02	202
3	SILVER LAKE TERRACE	50
4	MONTCLAIR	58
5	FAIRMONT S/D	127
6	BRACKRIDGE	158
7	GOLDEN GLADES UNIT 02	143
8	GOLDEN GLADES UNIT 02	2 123
9	MAYPORT	132
10	BLACKHAWK BLUFF	101
11	TIFFANY PINES	139
12	ASHLEY OAKS	75

Arlington East WRF Flow Summary (fiscal year average, mgd)

Historical	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
HIStorical	14.09	15.22	17.36	18.49	19.70	19.65	19.59	21.02	21.75	20.41
2020	2021	2022	2023	Dun'n stad	2024	2025	2030	2035	2040	2045
19.97	20.57	20.35	19.91	Projected	20.90	21.04	21.62	22.07	22.40	22.59

Glynlea Park Unit 01

Glynlea Park Unit 01 is located south of Atlantic Boulevard, Northeast of Pottsburg Creek, and West of Sapelo Road. There is a total of 218 lots within Glynlea Park Unit 01 development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing gravity sewer system on Bay Ridge Road to the existing pump station at 657 Glynlea Road. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell +	Daily (kG		Peak Ho (GI	our Flow PM)		PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg ♦	Range 🏺	Avg ♦	Range 🏺	Avg ♦	Range 🏺	Avg 🏺	Range 🏺
All			Al	Al								
ARLINGTON EAST	EAST	LS- 000960	GLYNLEA RD - 657	50.3	55.1	±5.8	151.2	± 15.1	908.6	± 16.9	16.6	± 1.6

Glynlea Park Unit 02

Glynlea Park Unit 02 is located south of Atlantic Boulevard, Northeast of Pottsburg Creek, and West of Arlington Road. There is a total of 202 lots within Glynlea Park Unit 01 development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing gravity sewer system on Sapelo Road to the existing pump station at 657 Glynlea Road. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell +	Daily Flow (kGPD)		Peak Hour Flow (GPM)		•		Utilization (%)	
Basin	Grid	CMMS	Address	(SF)	Avg ♦	Range 🏺	Avg ♦	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺
All			Al	Al								
ARLINGTON EAST	EAST	LS- 000960	GLYNLEA RD - 657	50.3	55.1	± 5.8	151.2	± 15.1	908.6	± 16.9	16.6	± 1.6

Silver Lake Terrace

Silver Lake Terrace is located south of Atlantic Boulevard, North of Pottsburg Creek, East of Agnue Avenue, and West of S Arlington Road. There is a total of 50 lots within the Silver Lake Terrace development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing force main on Silver Lake Terrace to the existing pump station at 487 Grove Park Boulevard. Below is the Capacity Analysis Report for that pump station:

	Asset		Capacity Analysis						
CMMS	Liftstation	Class	ADF	PHF	Capacity	Utilization			
			(kGPD)	(GPM)	(GPM)	(%)			
LS-000997	GROVE PARK BV - 487	3	423 1	973	1,400	70%			

Montclair

Montclair is located south of Point Pleasant Road, North of Hilliard Road, East of St Johns River, and West of San Jose Boulevard. There is a total of 58 lots within the Montclair development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to a proposed force main along San Jose Boulevard to an existing FM along San Clerc Road to the existing pump station at 4241 San Clerc Road. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [†] –	,	Flow PD)		our Flow PM)		PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg 🌲	Range 🏺	Avg 🏺	Range 🌲	Avg 🏺	Range 🌲
All			Al	Al								
ARLINGTON EAST	SOUTH	LS- 001950	SAN CLERC RD - 4241	12.6	24.3	± 2.4	69.5	± 6.6	211.9	±5	32.8	±3

Fairmont S/D

Fairmont S/D is located south of Hogan Road, North of Hilsdale Road, East of Belfort Road, and West of Rex Drive. There is a total of 127 lots within the Fairmont S/D development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the existing force main along Belfort Road to the existing pump station at 7200 AC Skinner Pkwy. Below is the Capacity Analysis Report for that pump station:

				De	emographics	:	Capacity					
♦ Basin	♦ Grid	♦ CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)		
All			Al		1		1		All	All		
ARLINGTON EAST	SOUTH	LS- 000018	AC SKINNER PY - 7200	2053	1133	69.1	1284	2537	3770	67.3		

Brackridge

Brackridge is located south of Newton Road, North of Touchton Road, East of Belfort Road, and West of Hogan Road. There is a total of 158 lots within the Brackridge development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to the existing force main along Belfort Road to the existing pump station at 7200 AC Skinner Pkwy. Below is the Capacity Analysis Report for that pump station:

				De	emographics	:	Capacity					
Basin	♦ Grid	CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)		
All			Al		1		1		All	All		
ARLINGTON EAST	SOUTH	LS- 000018	AC SKINNER PY - 7200	2053	1133	69.1	1284	2537	3770	67.3		

Golden Glades Unit 01

Golden Glades Unit 01 is located south of Otway Road North of Beach Boulevard, East of W. Gerona Drive, and West of Discovery Way. There is a total of 143 lots within the Golden Glades Unit 01 development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing force main on Beach Boulevard to the existing pump station at 2798 Huffman Boulevard. Below is the Capacity Analysis Report for that pump station:

	Asset		Capacity Analysis						
CMMS	Liftstation	Class	ADF	PHF	Capacity	Utilization			
			(kGPD)	(GPM)	(GPM)	(%)			
LS-001114	HUFFMAN BV - 2798	4	3,466 1	5,815	7,000	83%			

Golden Glades Unit 02

Golden Glades Unit 02 is located south of Otway Road North of Beach Boulevard, East of W. Gerona Drive, and West of Discovery Way. There is a total of 123 lots within the Golden Glades Unit 02 development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing force main on Beach Boulevard to the existing pump station at 2798 Huffman Boulevard. Below is the Capacity Analysis Report for that pump station:

	Asset			Analysis	-	
CMMS	Liftstation	Class	ADF	PHF	Capacity	Utilization
			(kGPD)	(GPM)	(GPM)	(%)
LS-001114	HUFFMAN BV - 2798	4	3,466 1	5,815	7,000	83%

Mayport

Mayport is located south of Broad Street, North of Minorcan Way, East of the Intracoastal Waterway, and West Ribault Park Street. There is a total of 132 lots within the Mayport development, shown in the highlighted green polygon below.



The blue dots in the map above represents sewer customers that are already connected to municipal sewer (8 lots).

Gravity sewer would need to be installed to serve this development. The gravity sewer system would discharge to the existing pump station at 1309 Roxie Street. Below is the Capacity Analysis Report for that pump station:

\$	A	A	\$	Wetwell -	Daily (kG			our Flow PM)		PM)	Utilizat	ion (%)
Basin	Grid	CMMS	Address	(SF)	Avg $\mbox{$\stackrel{\diamond}{=}$}$	Range 🏺	Avg $\mbox{$\phi$}$	Range 🏺	Avg 🏺	Range 🏺	Avg ♦	Range 🏺
All			All	Al								
ARLINGTON EAST	EAST	LS- 001926	ROXIE ST - 1309	50.3	13.3	± 7.2	38.9	± 20.5	338.8	± 19.8	11.5	± 6.7

Blackhawk Bluff

Blackhawk Bluff is located along Girvin Road south of Ebbtide Court and North of Sandy Drive. There is a total of 101 lots within the Blackhawk Bluff development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to a proposed force main along Girvin Road to the existing pump station at 1054 Wilderland Drive N. Below is the Capacity Analysis Report for that pump station:

\$			Wetwell =	Daily Flow (kGPD)		Peak Hour Flow (GPM)		Pump Flow (GPM)		Utilization (%)		
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg ♦	Range 🏺
All			All	Al								
ARLINGTON EAST	EAST	LS- 002427	WILDERLAND DR - 1054	28.3	15.8	± 4.5	45.9	± 12.8	82.6	± 20.5	55.7	± 5.9

Tiffany Pines

Tiffany Pines is located south of Mount Pleasant Road, North of Kernan Forest Boulevard, East of E. Chandelier Circle, and West of Gately Road. There is a total of 139 lots within the Tiffany Pines development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to a force main along Mount Pleasant Road to the existing pump station at 12733 Abess Boulevard. Below is the Capacity Analysis Report for that pump station:

				De	emographics		Capacity					
♦ Basin	♦ Grid	♦ CMMS	Address	SFR (ERC)	MFR (Units) [♦]	CII (%) [♦]	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)		
All			Al		i		Į.		All	All		
ARLINGTON EAST	EAST	LS- 000060	ABESS BV - 12733	15119	3872	9.7	3500	5862	8000	73.3		

Ashley Oaks

Ashley Oaks is located south of the St. Johns River, North of Fort Caroline Road, East of Sarah Brooks Ct, and West of Huguenot Landing Way. There is a total of 75 lots within the Ashley Oaks development, shown in the highlighted green polygon below.

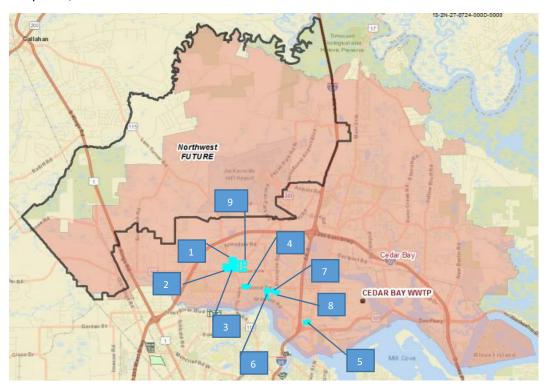


Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing force main along Fort Caroline that discharges directly to the Arlington East WRF.

Cedar Bay

District 2 (aka Cedar Bay) is a 10.0 mgd AADF WRF that provides advanced secondary treatment with nitrogen reduction. Residential and commercial development is still progressing at a moderate pace in the north and west regions of the service area. Northwest WRF is a future treatment facility planned to capture flows in the northwestern region of the Cedar Bay wastewater basin.

Nine (9) septic tank developments were identified by COJ that are within the Cedar Bay Basin. Their connection points, flows and information are listed below.



No.		SUBDESC	COUNT_RE
	1	GARDEN CITY NE 1/4 OF SE	96
	2	GARDEN CITY SE 1/4 OF SE	64
	3	GARDEN CITY SE 1/4 OF SE	76
	4	JOHNSONS R/P LT 6 LEM TUR	72
	5	HOLLYFORD ADDITION	59
	6	HIGHLANDS UNIT 04	114
	7	HIGHLANDS UNIT 04A	167
	8	HIGHLANDS UNIT 05	172
	9	PINEVIEW	78

Cedar Bay (DII) WRF Flow Summary (fiscal year average, mgd)

Historical	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
HISTORICAL	4.14	3.61	3.63	4.45	4.75	5.04	5.16	5.45	5.52	5.44
2020	2021	2022	2023	Projected	2024	2025	2030	2035	2040	2045
5.69	5.76	5.95	5.66		6.30	6.55	7.14	7.98	8.73	9.40

GARDEN CITY NE 1/4 OF SE (Area 1)

Garden City NE 1/4 of SE (Area 1) is located south of Jennings Road, North of Dunn Avenue, East of W Court Boulevard, and West of McAllister Boulevard. There is a total of 96 lots within the Garden City NE 1/4 of SE (Area 1) development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing force main along McCallister Boulevard to an existing gravity sewer system on Wheeler Avenue to the existing pump station at 3000 Dunn Avenue. Below is the Capacity Analysis Report for that pump station. The downstream station is approaching full capacity and growth will be monitored to determine when the station will need be upgraded to meet the growth in the area.

\$	\$		\$ \$		Daily Flow (kGPD)		Peak Hour Flow (GPM)		Pump Flow (GPM)		Utilization (%)	
Basin	Grid	CMMS	Address	Wetwell — (SF)	Avg 🏺	Range 🏺	Avg ♦	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺
			Al	Al								
CEDAR BAY	NORTH	LS- 000753	DUNN AV - 3000	78.5	174.2	± 42	439.3	±95	479.9	± 164.1	101.7	± 70

GARDEN CITY NE 1/4 OF SE (Area 2)

Garden City NE 1/4 of SE (Area 2) is located south of Jennings Road, North of Dunn Avenue, East of W Court Boulevard, and West of McAllister Boulevard. There is a total of 64 lots within the Garden City NE 1/4 of SE (Area 2) development, shown in the highlighted green polygon below.



The blue dots in the map above represents sewer customers that are already connected to municipal sewer (6 lots).

Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing force main along McCallister Boulevard to an existing gravity sewer system on Wheeler Avenue to the existing pump station at 3000 Dunn Avenue. Below is the Capacity Analysis Report for that pump station. The downstream station is approaching full capacity and growth will be monitored to determine when the station will need be upgraded to meet the growth in the area.

\$	A	*	\$	Wetwell + -	Daily Flow (kGPD)		Peak Hour Flow (GPM)		Pump Flow (GPM)		Utilization (%)	
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺
			Al	Al								
CEDAR BAY	NORTH	LS- 000753	DUNN AV - 3000	78.5	174.2	± 42	439.3	±95	479.9	± 164.1	101.7	± 70

Garden City NE 1/4 of SE (3)

Garden City NE 1/4 of SE (Area 3) is located south of Jennings Road, North of Dunn Avenue, East of W Court Boulevard, and West of McAllister Boulevard. There is a total of 76 lots within the Garden City NE 1/4 of SE (Area 3) development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing force main along McCallister Boulevard to an existing gravity sewer system on Wheeler Avenue to the existing pump station at 3000 Dunn Avenue. Below is the Capacity Analysis Report for that pump station. The downstream station is approaching full capacity and growth will be monitored to determine when the station will need be upgraded to meet the growth in the area.

\$	\$	\$	\$			Daily Flow (kGPD)		Peak Hour Flow (GPM)		Pump Flow (GPM)		Utilization (%)	
Basin	Grid	CMMS	Address	(SF)	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🌲	Avg 🏺	Range 🏺	
			Al	Al									
CEDAR BAY	NORTH	LS- 000753	DUNN AV - 3000	78.5	174.2	± 42	439.3	±95	479.9	± 164.1	101.7	± 70	

Johnsons R/P LT 6 Lem Turner

Johnsons R/P is located south of Carleon Road, North of Capper Road, East of Lem Turner Road, and West of Tulsa Road. There is a total of 72 lots within the Johnsons R/P development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing force main on Leonid Road to the existing pump station at 2518 Broward Road. Below is the Capacity Analysis Report for that pump station:

\$	* * *		\$	Wetwell [♦] -	Daily Flow (kGPD)		Peak Hour Flow (GPM)		Pump Flow (GPM)		Utilization (%)	
Basin	Grid	CMMS	Address	(SF)	Avg ♦	Range 🏺	Avg ♦	Range 🏺	Avg 🏺	Range 🏺	Avg ♦	Range 🏺
			Al	Al								
CEDAR BAY	NORTH	LS- 000486	BROWARD RD - 2518	78.5	30.8	± 8.9	87.1	±23.9	289.5	± 11	30	± 7.9

Hollyford Addition

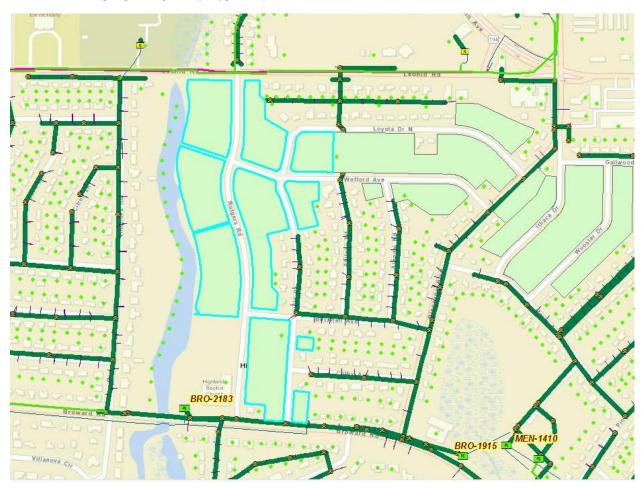
Hollyford Addition is located south of McCallman road, North of Jericho Road, East of I-95, and West of Main Street N. There is a total of 59 lots within the Holly Ford Addition development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing force main along Main Street North that directly discharges to the Cedar Bay WRF.

Highlands Unit 04

Highlands Unit 04 is located south of Leonid Road, North of Broward Road, East of Biscayne Boulevard, and West of Villanova Road. There is a total of 114 lots within the Highland Unit 04 development, shown in the highlighted green polygon below.

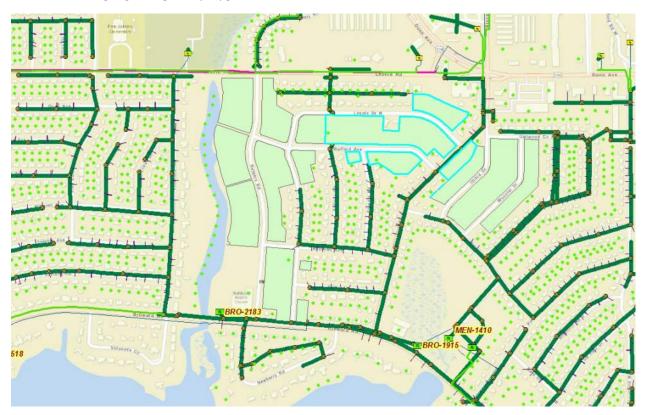


Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing gravity sewer system on Broward Road to the existing pump station at 1410 Menlo Avenue. Below is the Capacity Analysis Report for that pump station:

				De	emographics		Capacity					
♦ Basin	♦ Grid	♦ CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)		
			Al		ļ		Р		All	All		
CEDAR BAY	NORTH	LS- 001441	MENLO AV - 1410	1577	226	15.5	323	765	1490	51.4		

Highlands Unit 04A

Highlands Unit 04A is located south of Leonid Road, North of Broward Road, East of Biscayne Boulevard, and West of Rutgers Road. There is a total of 167 lots within the Highland Unit 04A development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing gravity sewer system on Biscayne Boulevard to the existing pump station at 1410 Menlo Avenue. Below is the Capacity Analysis Report for that pump station:

				De	emographics		Capacity					
Basin	♦ Grid	¢ CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)		
			Al		<i>‡</i>		Д		All	All		
CEDAR BAY	NORTH	LS- 001441	MENLO AV - 1410	1577	226	15.5	323	765	1490	51.4		

Highlands Unit 05

Highlands Unit 05 is located south of Leonid Road, North of Broward Road, East of Biscayne Boulevard, and West of Haverford Road. There is a total of 172 lots within the Highland Unit 05 development, shown in the highlighted green polygon below.

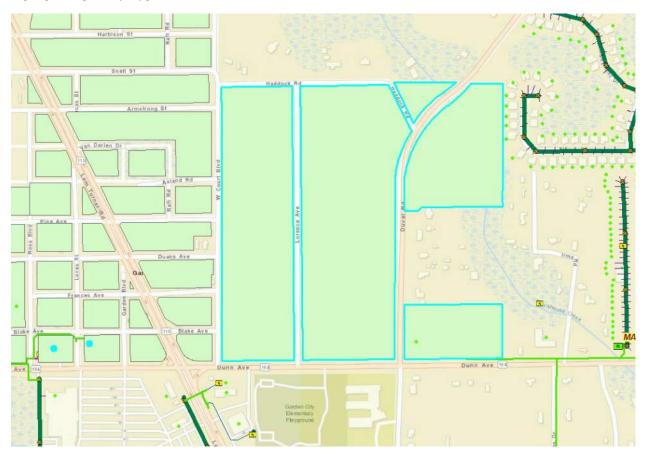


Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing gravity sewer system on Menlo Avenue to the existing pump station at 1410 Menlo Avenue. Below is the Capacity Analysis Report for that pump station:

				De	emographics			Capacity			
♦ Basin	♦ Grid	♦ CMMS	Address	SFR (ERC)	MFR (Units)	CII (%)	ADF (kGPD)	PHF (gpm)	Capacity (gpm)	Utilization (%)	
			Al		į.		Р		All	All	
CEDAR BAY	NORTH	LS- 001441	MENLO AV - 1410	1577	226	15.5	323	765	1490	51.4	

Pineview

Pineview is located south of Haddock Road, North of Dunn Avenue, East of W. Court Boulevard, and West of Irma Road. There is a total of 78 lots within the Pineview development, shown in the highlighted green polygon below.



Gravity sewer and at least one pump station would need to be installed to serve this development. The pump station would discharge to an existing force main on Dunn Avenue to the existing pump station at 1820 Ray Greene Drive. Below is the Capacity Analysis Report for that pump station:

\$	\$	\$	\$	Wetwell [♦] -	Daily Flow (kGPD)		Peak Hour Flow (GPM)		Pump Flow (GPM)		Utilization (%)	
Basin	Grid	CMMS	Address	(SF)	Avg ♦	Range 🏺	Avg 🌲	Range 🏺	Avg 🏺	Range 🏺	Avg 🏺	Range 🏺
			Al	Al								
CEDAR BAY	NORTH	LS- 001846	RAY GREENE DR - 1820	78.5	208.7	± 29.2	517.6	± 65.2	1216.6	±82.7	42.6	± 5.4