SOUTH SANTA ROSA UTILITY SYSTEM

P. O. BOX 640
1070 SHORELINE DR.
GULF BREEZE, FLORIDA 32562-0640

PHONE: 934-5100
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BOARD MEETING AGENDA

Gulf Breeze City Hall

October 13, 2014

Monday.....6:30 PM

1. CALL TO ORDER

2. ROLL CALL

3. APPROVAL OF MINUTES:
   a. Regular Meeting August 11, 2014

4. REPORTS:
   a. Financial Report
   b. Operations Report
   c. Engineering & Permitting

5. OLD BUSINESS

6. NEW BUSINESS:
   a. Developer Request – Pelican Bay
   b. Greystone Apartments
   c. Sewer Camera Puchase
   d. Technology Fee
   e. Gulf Power Access Agreement on ERS 2
   f. WWTF Entrance Paving
   g. West Course Pump Station and Reuse Pond Modification

7. PUBLIC FORUM

8. SETTING OF NEXT MEETING . . . December 8, 2014

9. ADJOURNMENT

If any person decides to appeal any decisions made with respect to any matter considered at this meeting, such person may need to insure that a verbatim record of the proceedings is made, which record includes the testimony and any evidence upon which the appeal is to be based.

The public is invited to comment on matters before the SSRUS Board upon receiving recognition from the Chair.

SOUTH SANTA ROSA UTILITY SYSTEM
BOARD OF DIRECTORS MEETING
AUGUST 11, 2014 - 6:30 P.M.

1. CALL TO ORDER:

The 120th regular meeting of the South Santa Rosa Utility System Board of Directors was called to order at 6:30 p.m., at Gulf Breeze City Hall, by Co-Chairman Tom Naile.

2. ROLL CALL:

The following Board members were present: Joe Henderson, Mark Meister, Otto Prochaska, Thomas Naile, and Bill Stanford. Mayor Beverly Zimmern, Terry Mills, and Richard Snyder were not present.

3. APPROVAL OF MINUTES:

A motion was made by Joe Henderson to approve the minutes from the June 9, 2014, meeting. Bill Stanford seconded. The minutes were approved unanimously.

4. REPORTS:

a. FINANCE REPORT

Thomas Lambert gave the board the financial report for October 2013 through August 2014.

b. OPERATIONS REPORT

Vernon Prather stated that utility operations returned to normal in June and July. The East Course Well was used to maintain lake levels due to increased demand.

The flood damaged significant areas of the sewer system causing numerous sink holes in the Utility's service area. These damages are being evaluated and repaired as needed.

The water meter upgrade program began on June 16th and is 50% complete.

Staff provided the last 7 years of rainfall history as recorded by the WWTP.

Attached for the Board's review are copies of the following correspondence:

a) SSRUS WWTP data for June 2014 and July 2014
b) Water & Sewer Revenue Tables F/Y 2014, 2013, 2012, 2011, 2010 and 2009
c) Water and Sewer Impact Fee Tables F/Y 2014, 2013, 2012, 2011, 2010 and 2009
d) Construction Coordinator Report
e) 2.0 MG Reject Tank Inspection Report

c. ENGINEERING AND PERMITTING

Thomas Lambert gave the report on engineering and in house construction projects.

5. OLD BUSINESS: None

6. NEW BUSINESS:

a. Purchase of Tractor and Mower

RECOMMENDATION:
SOUTH SANTA ROSA UTILITY SYSTEM BOARD RECOMMENDS THAT THE CITY COUNCIL AUTHORIZE THE PURCHASE OF ONE (1) KUBOTA GR2120 LAWN TRACTOR AND ONE (1) KUBOTA RTC-X900 FROM COASTAL MACHINERY AT A COST OF $18,960.40.

Otto Prochaska made a motion to approve staff's recommendation. The motion was seconded by Mark Meister. The vote for approval was unanimous.

b. Budget Discussions and Approval

RECOMMENDATION:
SOUTH SANTA ROSA UTILITY SYSTEM BOARD RECOMMENDS THAT THE CITY COUNCIL APPROVE THE F/Y 2015 BUDGET.

Mark Meister made a motion to approve staff's recommendation. The motion was seconded by Otto Prochaska. The vote for approval was unanimous.

8. PUBLIC FORUM:

Mike Handler, 1195 Grand Point Dr, spoke regarding the proposed budget.
Inquired regarding the investment of pooled cash. Buz will provide Mr. Handler with the information at a later date.

9. SETTING NEXT MEETING:

The next South Santa Rosa Utility System Board meeting will be held on Monday, October 13, 2014 at 6:30 p.m.

9. ADJOURNMENT: 7:30 P.M.

ATTESTED TO:

Leslie Guyer

Leslie A. Guyer, City Clerk

SSRUS FINANCIAL SUMMARY

F/Y 2014 PERIOD 8 FINANCIAL COMPARISON

OCTOBER 2013 THROUGH SEPTEMBER 2014

October 2014

SSRUS FINANCIAL SUMMARY - 12 MONTH YTD (Oct 13-Sep 14)
WATER & SEWER BREAKDOWN

Description	FY2014 Actual YTD	FY2014 Budget YTD		FY2013 Actual YTD	
WATER					
Revenue					
Service Charges	**1,667,053**	1,482,424	12.5%	1,538,662	8.3%
Impact Fees					
Miscellaneous	**53,629**	25,000	114.5%	47,180	13.7%
Special Assessment	-	-	0.0%	2	-100.0%
TOTALS	**1,720,682**	**1,507,424**	**14.15%**	**1,585,844**	
Expenses					
Salaries	**320,843**	335,909	-4.5%	360,096	-10.9%
Operating	**69,114**	54,100	27.8%	53,888	28.3%
Repairs & Maintenance	**89,465**	45,000	98.8%	54,494	64.2%
Contractual	**556,371**	489,500	13.7%	512,434	8.6%
Utilities	**47,158**	42,000	12.3%	43,554	8.3%
Debt Service	**38,621**	7,060	447.0%	-	0.0%
Capital	-	73,500	0.0%	11,421	-100.0%
Transfers	**88,106**	88,940	-0.9%	112,766	-21.9%
TOTALS	**1,209,678**	1,136,009	6.5%	1,148,653	
WATER NET GAIN/(LOSS)	**511,004**	371,415		437,191	
SEWER					
Revenue					
Service Charges	**3,179,004**	2,712,000	17.2%	2,806,449	13.3%
Impact Fees					
Miscellaneous	**723,332**	593,395	21.9%	615,494	17.5%
Special Assessment	-	-	0.0%	-	0.0%
TOTALS	**3,902,336**	**3,305,395**	**18.06%**	3,421,943	
Expenses					
Salaries	**1,057,840**	988,001	7.1%	885,372	19.5%
Operating	**257,421**	223,000	15.4%	242,178	6.3%
Repairs & Maintenance	**320,478**	193,000	66.1%	261,575	22.5%
Contractual	**131,341**	138,000	-4.8%	148,978	-11.8%
Utilities	**334,922**	305,000	9.8%	295,628	13.3%
Debt Service	**1,045,411**	1,180,691	-11.5%	626,027	67.0%
Capital	**437,770**	316,200	38.4%	-	0.0%
Transfers	**176,214**	179,838	-2.0%	204,730	-13.9%
TOTALS	**3,761,396**	3,523,730	6.7%	2,664,488	
SEWER NET GAIN/(LOSS)	**140,940**	(218,335)		757,455	

SSRUS FINANCIAL SUMMARY - 12 MONTH YTD (Oct 13-Sep 14)
OPERATIONAL AND CAPITAL SUMMARIES

Description	FY2014 Actual YTD	FY2014 Budget YTD		FY2013 Actual	
OPERATIONAL SUMMARY (Includes transfers)					
REVENUE	3,801,160	3,253,465	16.8%	3,385,264	12.3%
WATER EXPENSE	1,171,057	1,055,449	11.0%	1,137,232	3.0%
SEWER EXPENSE	2,278,216	2,026,839	12.4%	2,038,462	11.8%
EXPENSE TOTAL	3,449,273	3,082,287	11.9%	3,175,694	8.6%
NET GAIN	351,887	171,178	105.6%	209,570	
CAPITAL & DEBT SERVICE SUMMARY					
REVENUE	1,821,858	1,559,353	16.8%	1,622,523	12.3%
WATER EXPENSE	38,621	80,560	-52.1%	11,421	238.1%
SEWER EXPENSE	1,483,180	1,496,891	-0.9%	626,027	136.9%
EXPENSE TOTAL	1,521,801	1,577,452	-3.5%	637,448	138.7%
NET GAIN	300,057	-18,099	20.4%	985,075	
OVERALL SUMMARY					
REVENUE	5,623,018	4,812,819	16.8%	5,007,787	12.3%
WATER EXPENSE	1,209,678	1,136,009	6.5%	1,148,653	5.3%
SEWER EXPENSE	3,761,396	3,523,730	6.7%	2,664,488	41.2%
EXPENSE TOTAL	4,971,074	4,659,739	6.7%	3,813,142	30.4%
NET GAIN	651,943	153,080		1,194,645	

Unrestricted Cash 104.10-00	$ 2,111,245.61
Debt Service Restricted 104.16-03	$ 965,339.67
Total Cash	$ 3,076,585.28
- (Impact Fee Reserve)	$ (1,335,470.80)

SSRUS FINANCIAL SUMMARY - 12 MONTH YTD (Oct 13-Sep 14)
IMPACT FEE REPORT

IMPACT FEES RECEIVED IN FY 2014

Water Impact Fees		88,925
Sewer Impact Fees		401,241
TOTAL IMPACT FEES TODATE	$	490,166

IMPACT FEE ACCOUNT BALANCE

FY 2010 Y/E Balance		0
FY 2011 Receipts		309,563
FY 2012 Receipts		387,566
FY 2013 Receipts		327,388
FY 2014 Receipts		490,166
Authorized Expenditures		-179,212
IMPACT FEE RESERVES	**$**	**1,335,471**

AUTHORIZED EXPENDITURES

Description	Cost	Date
Reimb Waterford Sound	$ 35,100	10/8/2012
Bergren Road FM	$ 112,912	2/10/2014
Waterford Sound Reimb.	$ 31,200	2/10/2014
TOTAL	$ 179,212.25	

SSRUS FINANCIAL SUMMARY - 12 MONTH YTD (Oct 13-Sep 14)
OUTSTANDING CAPITAL/MAJOR PROJECT EXPENSE APPROVAL

PROJECT	ORIGINAL BUDGET	REVISED BUDGET	FUNDING NET CHANGE	SPENT TO DATE	BOARD APPROVAL
FY2013					
Lift Station Modification	70,000		70,000		
Trucks	86,000	93,934	(7,934)	93,934	December 2013
Water Main Replacement	80,000		80,000		
WWTF Contact Basins	145,000		145,000	145,000	December 2013
WWTF Tractor (Substitute)	23,586	18,960	4,626	18,960	This Agenda
WWTF Rotating Screen	19,625		19,625	20,054	February 2014
TOTALS	424,211	112,894	311,317	277,948	
FY2014					
Lift Station Modification	65,000		65,000		
Sewer Camera (80% of $95k)	76,000		76,000		This Agenda
Sewer Pump (80% of $35k)	28,000		28,000		
Water Plant Upgrades	12,000		12,000		
Water Crew Equipment	21,500		21,500		
WWTF Contact Basins	115,000	36,619	78,381	36,619	October 2013
WWTF Digester	80,000		80,000		
WWTF Master LS Pump	17,000		17,000		
TOTALS	414,500	36,619	377,881	36,619	

SSRUS FINANCIAL SUMMARY - 12 MONTH YTD (Oct 13-Sep 14)
SSRUS DEBT SERVICE

TOTAL DEBT		
	Remaining Principal	**Payment**
2005	16,921,781.70	1,244,770.31
2006	16,112,512.50	1,417,966.03
2007	15,705,049.48	1,448,108.31
2008	14,701,767.37	1,466,281.30
2009	13,659,978.07	1,490,100.30
2010	12,573,323.52	1,509,090.64
2011	11,440,374.63	1,309,543.78
2012	10,478,639.06	1,087,915.83
2013	9,714,550.71	1,101,705.30
2014	8,946,400.00	1,216,229.44
2015	8,073,830.56	1,210,929.45
2016	7,177,573.89	1,220,134.44
2017	6,232,462.21	1,227,269.45
2018	5,238,322.94	1,227,334.43
2019	4,199,978.61	1,230,579.45
2020	3,112,246.66	696,754.43
2021	2,509,939.35	362,609.45
2022	2,217,863.58	364,394.45
2023	1,915,820.75	366,109.45
2024	1,603,606.60	367,754.43
2025	1,281,011.05	369,329.44
2026	947,818.03	370,834.44
2027	603,805.31	314,869.45
2028	306,144.32	-
2029	-	-
2030	-	-
2031	-	-
2032	-	-
2033	-	-
2034	-	-

2004 Revenu Bonds			
Principal	Princ Pay	Interest	Total Payment
9,460,000	370,000	340,443	710,443
9,090,000	505,000	362,143	867,143
8,585,000	515,000	349,518	864,518
8,070,000	525,000	336,643	861,643
7,545,000	540,000	323,518	863,518
7,005,000	555,000	304,618	859,618
6,450,000	580,000	285,193	865,193
5,870,000	595,000	267,213	862,213
5,275,000	620,000	247,875	867,875
4,655,000	645,000	223,075	868,075
4,010,000	660,000	200,500	860,500
3,350,000	700,000	167,500	867,500
2,650,000	740,000	132,500	872,500
1,910,000	775,000	95,500	870,500
1,135,000	815,000	56,750	871,750
320,000	320,000	16,000	336,000

COASTAL A				
Principal	Payment	Interest	GB Portion	Total Payment
4,962,751	106,929.37	74,441.27	16,869	164,502
4,855,822	112,616.84	72,837.33	16,978	168,476
4,743,205	118,606.82	71,148.07	17,093	172,662
4,624,598	124,915.41	69,368.97	17,214	177,071
4,499,683	131,559.55	67,495.24	17,341	181,714
4,368,123	138,557.07	65,521.85	17,475	186,604
4,229,566	145,926.79	63,443.49	17,616	191,754
4,083,639	153,688.50	61,254.59	17,765	197,178
3,929,951	161,863.05	58,949.26	17,922	202,890

SSRUS FINANCIAL SUMMARY - 12 MONTH YTD (Oct 13-Sep 14)
SSRUS DEBT SERVICE con't

	2007 LOAN					COMPASS BVA			
	Principal	Payment	Interest	Total Payment	SSRUS Payment	Principal	Payment	Interest	Total Payment
2005	2.50%	Interest Rate	SSRUS Pays 5.6%						
2006									
2007	10,000,000	25,000.00	250,000.00	275,000.00	15,400				
2008	9,975,000	75,000.00	249,375.00	324,375.00	18,165				
2009	9,900,000	125,000.00	247,500.00	372,500.00	20,860				
2010	9,775,000	175,000.00	244,375.00	419,375.00	23,485				
2011	9,600,000	225,000.00	240,000.00	465,000.00	26,040				
2012	9,375,000	275,000.00	234,375.00	509,375.00	28,525				
2013	9,100,000	325,000.00	227,500.00	552,500.00	30,940				
2014	8,775,000	375,000.00	219,375.00	594,375.00	33,285	3,800,000	206,569	108,300	314,869
2015	8,400,000	425,000.00	210,000.00	635,000.00	35,560	3,593,431	212,457	102,413	314,869
2016	7,975,000	475,000.00	199,375.00	674,375.00	37,765	3,380,974	218,512	96,358	314,869
2017	7,500,000	525,000.00	187,500.00	712,500.00	39,900	3,162,462	224,739	90,130	314,869
2018	6,975,000	575,000.00	174,375.00	749,375.00	41,965	2,937,723	231,144	83,725	314,869
2019	6,400,000	625,000.00	160,000.00	785,000.00	43,960	2,706,579	237,732	77,138	314,869
2020	5,775,000	675,000.00	144,375.00	819,375.00	45,885	2,468,847	244,507	70,362	314,869
2021	5,100,000	725,000.00	127,500.00	852,500.00	47,740	2,224,339	251,476	63,394	314,869
2022	4,375,000	775,000.00	109,375.00	884,375.00	49,525	1,972,864	258,643	56,227	314,869
2023	3,600,000	825,000.00	90,000.00	915,000.00	51,240	1,714,221	266,014	48,855	314,869
2024	2,775,000	875,000.00	69,375.00	944,375.00	52,885	1,448,207	273,596	41,274	314,869
2025	1,900,000	925,000.00	47,500.00	972,500.00	54,460	1,174,611	281,393	33,476	314,869
2026	975,000	975,000.00	24,375.00	999,375.00	55,965	893,218	289,413	25,457	314,869
2027						603,805	297,661	17,208	314,869
2028						306,144	306,144	8,725	
2029						(0)			
2030									
2031									
2032									
2033									
2034									

City of Gulf Breeze

MEMORANDUM

TO: **Edwin A. Eddy, City Manager**

FROM: **Vernon L. Prather, Director of Public Services** V.P.

RE: **SSRUS Operations Report**

DATE: **October 06, 2014**

Utility operations were normal in August and September 2014. We relied on the supplemental water from the #11D well on the West Course and also East Course Well to maintain lake levels since demand has increased due to hot summer temperatures and lack of rain.

Staff has completed a number of sewer repairs due to the flooding that occurred in April. The flood damaged significant areas of the sewer system as evidenced by the numerous sink holes in the Utility's service area. These items are being evaluated and repaired as needed.

The WWTP and SSRUS Water System were inspected in August by the Department of Environmental Protection and found to be in compliance with state and federal rules. Our staff has done a tremendous job in operating each of these systems.

The WWTP flow was 1.480 mgd, for Aug. and 1.459 mgd for Sept. 2014. The Golf Course flow for this same time period was 1.021 mgd and .622 mgd. Overall the reclaim system has remained balanced with no activation of spray fields.

Since utility operations are influenced by rain fall, staff is providing last 7 years of yearly rainfall as recorded at the WWTP:

2007 = 81.97"
2008 = 54.29" 1st quarter data
2009 = 83.02" 20.14"
2010 = 66.90" 17.49"
2011 = 45.80" 12.45"
2012 = 81.20" 10.57"
2013 = 82.84" 16.86"
2014 = 79.24" 24.22"

Attached for the Board's review are copies of the following correspondence:

a) WWTP data for August 2014 and September 2014
b) Water & Sewer Revenue Tables F/Y 2014,2013, 2012, 2011, 2010, 2009
c) Water & Sewer Impact Fee Tables F/Y 2014, 2013, 2012, 2011, 2010,2009
d) Construction Coordinator Report
e) Copy of DEP inspection of WWTP
f) Copy of DEP inspection of SSRUS Water System

SOUTH SANTA ROSA UTILITY SYSTEM
1070 SHORELINE DRIVE
P.O. BOX 640
GULF BREEZE, FLORIDA 32562-0640
PHONE: 850-934-5100
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13068

SSRUS WWTP DATA

September 2014

DATE	WWTP FLOW (MGD)	SUPPL FLOW DW, & #11D & MW#1 (MGD)	TOTAL COURSE IRRIG. (MGD)	WEST COURSE (MGD)	EAST COURSE (MGD)	EAST* COURSE WELL	EASTERN REUSE SITE	REUSE CSTMR'S (MGD)	LAKE LEVEL (FT)	RAIN FALL (IN)	RAIN FALL FLOW
1	1.532	var.	var.	var.	var.	var.	var.	var.	6.4	0.00	0.00
2	1.417	var.	var.	var.	var.	var.	var.	var.	6.0	0.00	0.00
3	1.452	var.	var.	var.	var.	var.	var.	var.	5.8	0.00	0.00
4	1.488	var.	var.	var.	var.	var.	var.	var.	5.8	0.00	0.00
5	1.425	var.	var.	var.	var.	var.	var.	var.	6.2	0.00	0.00
6	1.422	var.	var.	var.	var.	var.	var.	var.	6.0	0.00	0.00
7	1.468	var.	var.	var.	var.	var.	var.	var.	5.8	0.00	0.00
8	1.607	var.	var.	var.	var.	var.	var.	var.	5.7	0.00	0.00
9	1.337	var.	var.	var.	var.	var.	var.	var.	6.4	1.75	0.21
10	1.512	var.	var.	var.	var.	var.	var.	var.	6.3	0.00	0.00
11	1.642	var.	var.	var.	var.	var.	var.	var.	6.4	0.00	0.00
12	1.525	var.	var.	var.	var.	var.	var.	var.	6.1	0.00	0.00
13	1.475	var.	var.	var.	var.	var.	var.	var.	5.7	0.00	0.00
14	1.526	var.	var.	var.	var.	var.	var.	var.	5.9	0.00	0.00
15	1.427	var.	var.	var.	var.	var.	var.	var.	5.7	0.00	0.00
16	1.452	var.	var.	var.	var.	var.	var.	var.	5.9	0.00	0.00
17	1.387	var.	var.	var.	var.	var.	var.	var.	6.1	0.08	0.01
18	1.393	var.	var.	var.	var.	var.	var.	var.	6.3	0.00	0.00
19	1.418	var.	var.	var.	var.	var.	var.	var.	6.4	0.01	0.00
20	1.395	var.	var.	var.	var.	var.	var.	var.	6.2	0.04	0.00
21	1.431	var.	var.	var.	var.	var.	var.	var.	6.3	0.00	0.00
22	1.425	var.	var.	var.	var.	var.	var.	var.	6.1	0.00	0.00
23	1.414	var.	var.	var.	var.	var.	var.	var.	5.8	0.00	0.00
24	1.378	var.	var.	var.	var.	var.	var.	var.	5.9	0.00	0.00
25	1.462	var.	var.	var.	var.	var.	var.	var.	5.9	0.00	0.00
26	1.378	var.	var.	var.	var.	var.	var.	var.	6.0	0.00	0.00
27	1.396	var.	var.	var.	var.	var.	var.	var.	6.3	0.00	0.00
28	1.531	var.	var.	var.	var.	var.	var.	var.	6.2	0.11	0.01
29	1.589	var.	var.	var.	var.	var.	var.	var.	5.9	0.49	0.06
30	1.457	var.	var.	var.	var.	var.	var.	var.	5.9	1.20	0.15
	43.761	8.719	11.900	1.465	10.435	6.769	0.065	25.630	6.000	3.680	0.45
Max Day	1.642								0		
AVG	1.459	0.291	0.397	0.049	0.348	0.226	0.002	0.854	5.86	0.123	0.015

Golf Course Average Irrigation 0.622
*Includes East Course Well

	WWTP FLOW	+ RAIN FLOW	+ 11D WELL	- IRRIG	- ERS	- REUSE	- LAKE GAIN	= PERC
Avg	1.459	0.015	0.291	-0.397	-0.002	-0.854	0.015	= 0.526 MGD
	(= TOTAL FLOW)							
	(1.764)							

Lake Level (09/30) - Lake Level (08/31) = Lake Gain

5.9	6.2	-0.3 ft.
70.8	74.4	-3.6 in.

Formula	
WWTP FLOW	1.459
RAIN FLOW	0.015
suppl flow	0.291
- IRRIG	0.397
- ERS	0.002
0 - REUSE	0.854
- LAKE GAIN	-0.015
PERC:	0.526

ADDITIONAL COMMENTS:

1 Rain Fall Flow equals 1.22662x100,000 MG per inch of rain fall.

-3.600 in.
0.883 mg.
-0.015 mgd

SOUTH SANTA ROSA UTILITY SYSTEM
1070 SHORELINE DRIVE
P.O. BOX 640
GULF BREEZE, FLORIDA 32562-0640
PHONE: 850-934-5100
FAX: 850-934-5114

13068

SSRUS WWTP DATA

August 2014

DATE	WWTP FLOW (MGD)	SUPPL FLOW DW, & #11D & MW#1 (MGD)	TOTAL COURSE IRRIG. (MGD)	WEST COURSE (MGD)	EAST COURSE (MGD)	EAST* COURSE WELL	EASTERN REUSE SITE	REUSE CSTMR'S (MGD)	LAKE LEVEL (FT)	RAIN FALL (IN)	RAIN FALL FLOW
1	1.430	var.	var.	var.	var.	var.	var.	var.	6.0	0.00	0.00
2	1.542	var.	var.	var.	var.	var.	var.	var.	5.6	0.00	0.00
3	1.546	var.	var.	var.	var.	var.	var.	var.	5.7	0.00	0.00
4	1.413	var.	var.	var.	var.	var.	var.	var.	6.0	0.00	0.00
5	1.510	var.	var.	var.	var.	var.	var.	var.	5.9	0.00	0.00
6	1.463	var.	var.	var.	var.	var.	var.	var.	5.5	0.00	0.00
7	1.601	var.	var.	var.	var.	var.	var.	var.	5.6	0.00	0.00
8	1.422	var.	var.	var.	var.	var.	var.	var.	5.9	0.00	0.00
9	1.569	var.	var.	var.	var.	var.	var.	var.	6.0	0.00	0.00
10	1.503	var.	var.	var.	var.	var.	var.	var.	6.6	0.00	0.00
11	1.491	var.	var.	var.	var.	var.	var.	var.	6.5	0.00	0.00
12	1.477	var.	var.	var.	var.	var.	var.	var.	5.7	0.00	0.00
13	1.539	var.	var.	var.	var.	var.	var.	var.	6.0	0.00	0.00
14	1.473	var.	var.	var.	var.	var.	var.	var.	6.2	0.00	0.00
15	1.404	var.	var.	var.	var.	var.	var.	var.	6.2	0.00	0.00
16	1.438	var.	var.	var.	var.	var.	var.	var.	6.0	0.00	0.00
17	1.579	var.	var.	var.	var.	var.	var.	var.	6.4	0.00	0.00
18	1.481	var.	var.	var.	var.	var.	var.	var.	6.6	0.00	0.00
19	1.480	var.	var.	var.	var.	var.	var.	var.	6.3	0.51	0.06
20	1.484	var.	var.	var.	var.	var.	var.	var.	5.8	0.05	0.01
21	1.477	var.	var.	var.	var.	var.	var.	var.	6.0	0.00	0.00
22	1.406	var.	var.	var.	var.	var.	var.	var.	6.0	0.00	0.00
23	1.442	var.	var.	var.	var.	var.	var.	var.	6.5	0.00	0.00
24	1.523	var.	var.	var.	var.	var.	var.	var.	5.8	0.00	0.00
25	1.473	var.	var.	var.	var.	var.	var.	var.	5.9	0.60	0.07
26	1.479	var.	var.	var.	var.	var.	var.	var.	5.3	0.00	0.00
27	1.448	var.	var.	var.	var.	var.	var.	var.	5.7	0.00	0.00
28	1.376	var.	var.	var.	var.	var.	var.	var.	5.8	0.00	0.00
29	1.492	var.	var.	var.	var.	var.	var.	var.	5.0	0.00	0.00
30	1.460	var.	var.	var.	var.	var.	var.	var.	5.9	0.30	0.04
31	1.459	var.	var.	var.	var.	var.	var.	var.	6.2	0.00	0.00
	45.880	8.590	17.907	2.558	15.349	13.743	0.000	15.034	6.400	1.460	0.18
Max Day	1.601								0		
AVG	1.480	0.277	0.578	0.083	0.495	0.443	0.000	0.485	5.79	0.047	0.006

Golf Course Average Irrigation 1.021
*Includes East Course Well

	WWTP FLOW	+ RAIN FLOW	+ suppl flow	- IRRIG	- ERS	- REUSE	- LAKE GAIN	= PERC	
Avg	1.480	0.006	0.277	-0.578	0.000	-0.485	0.028	= 0.729	MGD
	(= TOTAL FLOW)								
	(1.763)								

Lake Level (8/31) - Lake Level (7/31) = Lake Gain

6.2	6.8	-0.6 ft.
74.4	81.6	-7.2 in.

ADDITIONAL COMMENTS:

1 Rain Fall Flow equals 1.22662x100,000 MG per inch of rain fall.

-7.200 in.
-0.883 mg.
-0.028 mgd

Formula	
WWTP FLOW	1.480
RAIN FLOW	0.006
suppl flow	0.277
- IRRIG	0.578
- ERS	0.000
0 - REUSE	0.485
- LAKE GAIN	-0.028
PERC:	0.729

SSRUS	FY 2014	REVENUE								
	Water Dollars	Water Consump	Water Customers	Sewer Dollars	Sewer Consump	Sewer Customers	Misc. Charges	Total Dollars YTD	Budget Req-mnts YTD	Over/Short YTD
		(1000 gal)			(1000 gal)					
Oct-13	$132,102			$240,080				$372,182	$339,923	$32,259
Nov-13	$188,628			$386,076				$946,886	$679,846	$267,040
Dec-13	$120,209			$221,839				$1,288,934	$1,019,769	$269,165
Jan-14	$123,952			$237,097				$1,649,983	$1,359,692	$290,291
Feb-14	$142,433			$264,805				$2,057,221	$1,699,615	$357,606
Mar-14	$116,865			$216,869				$2,390,955	$2,039,538	$351,417
Apr-14	$122,567			$239,974				$2,753,497	$2,379,461	$374,036
May-14	$134,869			$254,665				$3,143,031	$2,719,384	$423,647
Jun-14	$134,159			$257,207				$3,534,397	$3,059,307	$475,090
Jul-14	$137,338			$277,937				$3,949,672	$3,399,230	$550,442
Aug-14	$131,555			$253,078				$4,334,304	$3,739,153	$595,151
Sep-14	$144,649			$294,000				$4,772,954	$4,079,076	$693,878
TOTALS	$1,629,326			$3,143,627			$0			
AVG.	$135,777	#DIV/0!	#DIV/0!	$261,969	#DIV/0!	#DIV/0!	#DIV/0!			

Water monthly requirement	$120,702
Sewer monthly requirement:	$219,221
	$339,923

SSRUS	FY 2013	REVENUE								
	Water Dollars	Water Consump (1000 gal)	Water Customers	Sewer Dollars	Sewer Consump (1000 gal)	Sewer Customers	Misc. Charges	Total Dollars YTD	Budget Req-mnts YTD	Over/Short YTD
Oct-12	$128,604	23,949	4,186	$241,203	33,685	5,963	$913	$370,719	$339,923	$30,796
Nov-12	$130,607	24,776	4,200	$238,649	32,425	5,965	$888	$740,862	$679,846	$61,016
Dec-12	$126,799	23,260	4,193	$237,713	32,209	5,966	$280	$1,105,655	$1,019,769	$85,886
Jan-13	$120,044	21,023	4,183	$233,716	31,348	5,957	$220	$1,459,635	$1,359,692	$99,942
Feb-13	$126,242	23,234	4,198	$236,191	31,719	6,007	$395	$1,822,463	$1,699,615	$122,848
Mar-13	$113,116	18,399	4,181	$215,723	26,815	5,983	$578	$2,151,879	$2,039,538	$112,341
Apr-13	$119,911	20,775	4,186	$233,501	31,074	5,997	$585	$2,505,876	$2,379,461	$126,415
May-13	$127,729	23,827	4179	$242,157	33,327	5979	$358	$2,876,120	$2,719,384	$156,736
Jun-13	$134,602	26,130	4208	$264,145	38,739	6014	$328	$3,275,195	$3,059,307	$215,888
Jul-13	$131,806	25,238	4163	$248,397	34,919	5966	$491	$3,655,888	$3,399,230	$256,658
Aug-13	$131,768	27,283	4,145	$253,366	37,153	5,966	$0	$4,041,023	$3,739,153	$301,870
Sep-13	$67,023	12,394		$73,497	10,374		$40	$4,181,583	$4,079,076	$102,507
TOTALS	$1,458,251			$2,718,259			$5,073			
AVG.	$121,521	22,524	4184	$226,522	31,149	5978	$423			

Water monthly requirement $120,702
Sewer monthly requirement: $219,221
$339,923

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SSRUS	FY 2012	REVENUE								
	Water Dollars	Water Consump (1000 gal)	Water Customers	Sewer Dollars	Sewer Consump (1000 gal)	Sewer Customers	Misc. Charges	Total Dollars YTD	Budget Req-mnts YTD	Over/Short YTD
Oct-11	$120,583	23,336	4,165	$226,012	32,850	5,856	$355	$346,950	$337,083	$9,867
Nov-11	$128,668	25,753	4,183	$230,111	33,773	5,860	$373	$706,101	$674,166	$31,936
Dec-11	$120,169	23,070	4,183	$223,347	32,112	5,870	$380	$1,049,997	$1,011,248	$38,749
Jan-12	$111,796	19,012	4,184	$217,764	29,212	5,881	$340	$1,379,897	$1,348,331	$31,566
Feb-12	$125,139	23,719	4,159	$225,409	30,386	5,870	$658	$1,731,103	$1,685,414	$45,689
Mar-12	$120,734	20,851	4,178	$218,689	28,778	5,891	$554	$2,071,081	$2,022,497	$48,584
Apr-12	$128,993	23,992	4200	$239,986	33,671	5937	$520	$2,440,580	$2,359,579	$81,000
May-12	$128,888	23,995	4201	$238,364	33,370	5927	$778	$2,808,610	$2,696,662	$111,948
Jun-12	$137,468	27,193	4184	$250,549	36,401	5922	$685	$3,197,311	$3,033,745	$163,567
Jul-12	$131,469	25,138	4188	$248,672	35,862	5941	$670	$3,578,123	$3,370,828	$207,295
Aug-12	$139,191	27,853	4,188	$253,693	37,178	5,932	$413	$3,971,420	$3,707,910	$263,509
Sep-12	$123,883	22,115	4196	$232,273	31,744	5958	$635	$4,328,210	$4,044,993	$283,217
TOTALS	$1,516,981			$2,804,869			$6,360			
AVG.	$126,415	23,836	4184	$233,739	32,945	5904	$530			

Water monthly requirement $120,702
Sewer monthly requirement: $216,381
$337,083

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SSRUS	FY 2011	REVENUE								
	Water Dollars	Water Consump (1000 gal)	Water Customers	Sewer Dollars	Sewer Consump (1000 gal)	Sewer Customers	Misc. Charges	Total Dollars YTD	Budget Req-mnts YTD	Over/Short YTD
Oct-10	$128,822	26,177	4179	$230,260	35,635	5840	$503	$359,584	$324,275	$35,309
Nov-10	$121,605	23,768	4164	$220,313	37,530	5827	$481	$701,983	$648,550	$53,434
Dec-10	$113,988	20,827	4171	$214,514	29,974	5840	$540	$1,031,025	$972,824	$58,201
Jan-11	$118,331	22,365	4177	$220,274	31,394	5866	$405	$1,370,035	$1,297,099	$72,936
Feb-11	$116,958	21,870	4167	$212,626	29,508	5840	$510	$1,700,129	$1,621,374	$78,755
Mar-11	$111,149	19,556	4187	$206,288	27,538	5863	$575	$2,018,141	$1,945,649	$72,492
Apr-11	$119,520	22,877	4164	$218,832	30,659	5829	$175	$2,356,668	$2,269,923	$86,744
May-11	$125,907	25,199	4193	$239,789	36,334	5868	$943	$2,723,306	$2,594,198	$129,108
Jun-11	$136,886	29,201	4176	$254,659	40,043	5840	$588	$3,115,439	$2,918,473	$196,966
Jul-11	$136,846	29,039	4188	$248,753	38,427	5853	$350	$3,501,387	$3,242,748	$258,640
Aug-11	$134,752	28,528	4209	$247,638	38,149	5887	$1,301	$3,885,080	$3,567,022	$318,057
Sep-11	$132,878	27,504	4178	$243,495	37,261	5850	$550	$4,262,002	$3,891,297	$370,705
TOTALS	$1,497,643			$2,757,440			$6,920			
AVG.	$124,804	24,743	4179	$229,787	34,371	5850	$577			

Water monthly requirement $117,500
Sewer monthly requirement: $206,775
$324,275

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SSRUS	FY 2010	REVENUE								
	Water Dollars	Water Consump (1000 gal)	Water Customers	Sewer Dollars	Sewer Consump (1000 gal)	Sewer Customers	Misc. Charges	Total Dollars YTD	Budget Req-mnts YTD	Over/Short YTD
Oct-09	$129,824	29,711	4209	$215,078	37,050	5835	$720	$345,621	$318,717	$26,904
Nov-09	$118,752	22,551	4189	$204,876	29,284	5772	$363	$669,612	$637,433	$32,178
Dec-09	$116,722	21,711	4194	$205,815	29,797	5779	$710	$992,859	$956,150	$36,709
Jan-10	$118,887	22,610	4191	$211,322	30,560	5776	$776	$1,323,844	$1,274,867	$48,977
Feb-10	$119,651	22,801	4153	$203,579	29,072	5752	$472	$1,647,546	$1,593,583	$53,962
Mar-10	$109,447	19,032	4182	$191,003	25,884	5752	$477	$1,948,473	$1,912,300	$36,173
Apr-10	$117,688	22,278	4174	$207,505	27,011	5761	$585	$2,274,251	$2,231,017	$43,234
May-10	$126,003	25,161	4179	$220,317	33,266	5792	$570	$2,621,140	$2,549,733	$71,407
Jun-10	$128,894	26,023	4198	$229,250	35,041	5826	$775	$2,980,059	$2,868,450	$111,609
Jul-10	$132,148	27,560	4180	$232,522	36,204	5804	$763	$3,345,491	$3,187,167	$158,325
Aug-10	$136,089	28,789	4200	$241,267	38,323	5837	$445	$3,723,292	$3,505,883	$217,408
Sep-10	$128,585	25,686	4185	$223,969	34,017	5835	$405	$4,076,251	$3,824,600	$251,651
TOTALS	$1,482,688			$2,586,503			$7,060			
AVG.	$123,557	24,493	4186	$215,542	32,126	5793	$588			

Water monthly requirement $118,000
Sewer monthly requirement: $200,717
$318,717

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SSRUS	FY 2009	REVENUE								
	Water Dollars	Water Consump (1000 gal)	Water Customers	Sewer Dollars	Sewer Consump (1000 gal)	Sewer Customers	Misc. Charges	Total Dollars YTD	Budget Req-mnts YTD	Over/Short YTD
Oct-08	$121,911	27,771	4227	$202,742	35,561	5787	$850	$325,502	$334,500	-$8,998
Nov-08	$101,206	19,808	4201	$169,777	26,678	5807	$805	$597,090	$669,000	-$71,910
Dec-08	$116,482	25,847	4214	$196,923	24,088	5835	$1,003	$911,497	$1,003,500	-$92,003
Jan-09	$110,030	21,797	4194	$186,105	29,372	5780	$773	$1,208,405	$1,338,000	-$129,595
Feb-09	$105,852	20,372	4196	$179,769	27,629	5784	$328	$1,494,353	$1,672,500	-$178,147
Mar-09	$109,407	21,765	4179	$190,198	30,546	5790	$648	$1,794,606	$2,007,000	-$212,394
Apr-09	$110,713	22,277	4171	$189,501	30,095	5832	$665	$2,095,485	$2,341,500	-$246,015
May-09	$113,469	24,577	4170	$193,805	32,913	5791	$580	$2,403,339	$2,676,000	-$272,661
Jun-09	$120,904	28,441	4171	$217,927	37,934	5819	$643	$2,742,813	$3,010,500	-$267,687
Jul-09	$136,771	32,326	4191	$234,534	42,416	5780	$670	$3,114,687	$3,345,000	-$230,313
Aug-09	$122,350	26,666	4191	$207,498	35,118	5772	$768	$3,445,302	$3,679,500	-$234,198
Sep-09	$46,443	8,706	1861	$125,461	19,273	3813	$40	$3,617,246	$4,014,000	-$396,754
OTALS	$1,315,537			$2,294,240			$7,470	$23,750,324		
VG.	$109,628	23,363	3997	$191,187	30,969	5633	$623	$ 1,979,194		

Water monthly requirement $126,500
ewer monthly requirement: $208,000
$334,500

NOTE: January 2009 includes water and sewer rate increases

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SSRUS MONTHLY IMPACT FEES - 2014

MONTH	WATER	SEWER	YTD WATER	YTD SEWER	YTD TOTAL	BUDGETED	OVER/UNDER
October-13	$5,875	$60,550	$5,875	$60,550	$66,425	$0	$66,425
November-13	$12,750	$17,150	$18,625	$77,700	$96,325	$0	$96,325
December-13	$4,500	$45,600	$23,125	$123,300	$146,425	$0	$146,425
January-14	$4,500	$10,400	$27,625	$133,700	$161,325	$0	$161,325
February-14	$9,000	$29,900	$36,625	$163,600	$200,225	$0	$200,225
March-14	$11,250	$45,500	$47,875	$209,100	$256,975	$0	$256,975
April-14	$500	$36,400	$48,375	$245,500	$293,875	$0	$293,875
May-14	$8,575	$29,375	$56,950	$274,875	$331,825	$0	$331,825
June-14	$1,550	$16,421	$58,500	$291,296	$349,796	$0	$349,796
July-14	$7,925	$28,600	$66,425	$319,896	$386,321	$0	$386,321
August-14	$20,250	$52,000	$86,675	$371,896	$458,571	$0	$458,571
September-14	$2,250	$29,375	$88,925	$401,271	$490,196	$0	$490,196
Avg.							

Water tap annual requirement:	$0	Monthly	$0
Sewer tap annual requirement:	$0	Monthly	$0
Combined annual requirement:	$0	Monthly	$0

SSRUS MONTHLY IMPACT FEES - 2013

MONTH	WATER	SEWER	YTD WATER	YTD SEWER	YTD TOTAL	BUDGETED	OVER/UNDER
October-12	$2,250	$13,100	$2,250	$13,100	$15,350	$0	$15,350
November-12	$0	$9,900	$2,250	$23,000	$25,250	$0	$25,250
December-12	$2,250	$7,750	$4,500	$30,750	$35,250	$0	$35,250
January-13	$0	$39,300	$4,500	$70,050	$74,550	$0	$74,550
February-13	$0	$12,000	$4,500	$82,050	$86,550	$0	$86,550
March-13	$0	$71,600	$4,500	$153,650	$158,150	$0	$158,150
April-13	$14,075	$52,200	$18,575	$205,850	$224,425	$0	$224,425
May-13	$3,425	$24,200	$22,000	$230,050	$252,050	$0	$252,050
June-13	$2,250	$22,575	$24,250	$252,625	$276,875	$0	$276,875
July-13	$3,525	$9,800	$27,775	$262,425	$290,200	$0	$290,200
August-13	$2,250	$15,975	$30,025	$278,400	$308,425	$0	$308,425
September-13	$1,687	$17,275	$31,712	$295,675	$327,387	$0	$327,387
Avg.							

Water tap annual requirement:	$0	Monthly	$0
Sewer tap annual requirement:	$0	Monthly	$0
Combined annual requirement:	$0	Monthly	$0

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SSRUS MONTHLY IMPACT FEES - 2012

MONTH	WATER	SEWER	YTD WATER	YTD SEWER	YTD TOTAL	BUDGETED	OVER/UNDER
October-11	$0	$6,500	$0	$6,500	$6,500	$0	$6,500
November-11	$5,625	$33,074	$5,625	$39,574	$45,199	$0	$45,199
December-11	$0	$16,524	$5,625	$56,098	$61,723	$0	$61,723
January-12	$75	$26,924	$5,700	$83,022	$88,722	$0	$88,722
February-12	$4,500	$50,607	$10,200	$133,629	$143,829	$0	$143,829
March-12	$0	$5,900	$10,200	$139,529	$149,729	$0	$149,729
April-12	$0	$38,600	$10,200	$178,129	$188,329	$0	$188,329
May-12	$0	$24,400	$10,200	$202,529	$212,729	$0	$212,729
June-12	$10,125	$26,775	$20,325	$229,304	$249,629	$0	$249,629
July-12	$0	$20,800	$20,325	$250,104	$270,429	$0	$270,429
August-12	$2,250	$21,700	$22,575	$271,804	$294,379	$0	$294,379
September-12	$0	$93,184	$22,575	$364,988	$387,563	$0	$387,563
Avg.							

Water tap annual requirement:	$0	Monthly	$0
Sewer tap annual requirement:	$0	Monthly	$0
Combined annual requirement:	$0	Monthly	$0

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SSRUS MONTHLY IMPACT FEES - 2011

MONTH	WATER	SEWER	YTD WATER	YTD SEWER	YTD TOTAL	BUDGETED	OVER/UNDER
October-10		$1,047	$0	$1,047	$1,047	$0	$1,047
November-10		$3,750	$0	$4,797	$4,797	$0	$4,797
December-10		$6,247	$0	$11,044	$11,044	$0	$11,044
January-11		$45,247	$0	$56,291	$56,291	$0	$56,291
February-11	$4,500	$11,446	$4,500	$67,737	$72,237	$0	$72,237
March-11	$4,500	$7,047	$9,000	$74,784	$83,784	$0	$83,784
April-11	$1,688	$10,522	$10,688	$85,306	$95,993	$0	$95,993
May-11		$11,447	$10,688	$96,753	$107,440	$0	$107,440
June-11	$2,250	$88,147	$12,938	$184,900	$197,837	$0	$197,837
July-11	$4,500	$31,679	$17,438	$216,579	$234,016	$0	$234,016
August-11		$11,343	$17,438	$227,922	$245,359	$0	$245,359
September-11	$2,250	$61,951	$19,688	$289,873	$309,560	$0	$309,560
Avg.							

Water tap annual requirement:	$0	Monthly	$0
Sewer tap annual requirement:	$0	Monthly	$0
Combined annual requirement:	$0	Monthly	$0

C 3

SSRUS MONTHLY IMPACT FEES - 2010

MONTH	WATER	SEWER	YTD WATER	YTD SEWER	YTD TOTAL	BUDGETED	OVER/UNDER
October-09	$2,250	$9,621	$2,250	$9,621	$11,871	$0	$11,871
November-09	$0	$1,047	$2,250	$10,668	$12,918	$0	$12,918
December-09	$2,250	$8,247	$4,500	$18,915	$21,415	$0	$21,415
January-10	$0	$8,247	$4,500	$23,162	$27,662	$0	$27,662
February-10	$0	$18,015	$4,500	$41,177	$45,677	$0	$45,677
March-10	$0	$14,822	$4,500	$55,999	$60,499	$0	$60,499
April-10	$0	$1,047	$4,500	$57,046	$61,546	$0	$61,546
May-10	$2,250	$8,247	$6,750	$63,293	$70,043	$0	$70,043
June-10	$0	$8,247	$6,750	$69,540	$76,290	$0	$76,290
July-10	$0	$1,047	$6,750	$70,587	$77,337	$0	$77,337
August-10	$0	$1,047	$6,750	$71,634	$78,384	$0	$78,384
September-10	$0	$1,047	$6,750	$72,681	$79,431	$0	$79,431
Avg.							

Water tap annual requirement:	$0	Monthly	$0
Sewer tap annual requirement:	$0	Monthly	$0
Combined annual requirement:	$0	Monthly	$0

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SSRUS MONTHLY IMPACT FEES - 2009

MONTH	WATER	SEWER	YTD WATER	YTD SEWER	YTD TOTAL	BUDGETED	OVER/UNDER
October-08	$0	$20,922	$0	$20,922	$20,922	$29,167	-$8,245
November-08	$0	$1,047	$0	$21,969	$21,969	$58,333	-$36,364
December-08	$0	$1,047	$0	$23,016	$23,016	$87,500	-$64,484
January-09	$0	$1,047	$0	$24,063	$24,063	$116,667	-$92,604
February-09	$0	$1,047	$0	$25,110	$25,110	$145,833	-$120,723
March-09	$0	$1,047	$0	$26,157	$26,157	$175,000	-$148,843
April-09	$0	$1,047	$0	$27,204	$27,204	$204,167	-$176,963
May-09	$2,250	$6,247	$2,250	$33,451	$35,701	$233,333	-$197,632
June-09	$2,250	$16,647	$4,500	$50,098	$54,598	$262,500	-$207,902
July-09	$0	$1,047	$4,500	$51,145	$55,645	$291,667	-$236,022
August-09	$0	$1,047	$4,500	$52,192	$56,692	$320,833	-$264,141
September-09	$2,250	$51,222	$6,750	$103,414	$110,164	$350,000	-$239,836
Avg.							

Water tap annual requirement:	$50,000	Monthly	$4,167
Sewer tap annual requirement:	$300,000	Monthly	$25,000
Combined annual requirement:	$350,000	Monthly	$29,167

C5

MEMORANDUM

TO: Vernon L. Prather, Director of Public Services

FROM: Jon Kanzigg, Construction Coordinator

DATE: October 7, 2014

RE: Construction Report

Projects under review

1. Spring Lake Water – 0 Sewer – Various Reuse – 0

This will be a three phase Subdivision built on Soundside Drive. Richard Godwin (Owner) has hired an Engineer to provide Design work. We have met with both parties of points of connection and plans will be provided for review and comment within the next few months. Project will build out somewhere around 75 single family units. It will be constructed in three phases and will a L.P.S. sewer system. Zoning issues are at the County under review.

2. Greystone Apartments Water - 0 Sewer – 156 Reuse -0

This complex will be built on highway 98 next to Saint Sylvester Catholic Church. Reuse, if used would be of limited amounts based on landscaping. This project will require its own lift station; however we may be able to remove one of our stations now in use in this process by combining flows. The Engineer is addressing our second review comments and has submitted the Natural Gas Generator specifications for our review. This will be for back-up power for the lift station.

3. Pelican Bay Water – 0 Sewer - 42 Reuse 0

This will be a sewer only single family subdivision located on the west side of Redfish Point Road. Served by a central sewer system and lift station. Plan review fees have been paid and first review letter sent to the Engineer of record and those corrections have been made. There are a few details we are working on at this time.

The following projects are currently under construction.

None

Projects completed since last report.

1. Clay Circle

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
NORTHWEST DISTRICT
160 W. GOVERNMENT STREET, SUITE 308
PENSACOLA, FL 32502-5740

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

August 11, 2014

Mr. Vernon Prather, Director of Public Services
South Santa Rosa Utilities
Post Office Box 640
Gulf Breeze, Florida 32562-0640
vprather@gulfbreezefl.gov

RE: South Santa Rosa Utilities
PWS# 1570593

Dear Mr. Prather:

Department personnel conducted a compliance inspection of the above-referenced facility on August 5, 2014. Based on the information provided during the inspection the system was determined to be in compliance with the Department's rules and regulations. A copy of the inspection report is attached for your records.

The Department appreciates your efforts to maintain this system in compliance with state and federal rules. Should you have any questions or comments, please contact me at elizabeth.willard@dep.state.fl.us or (850) 595-0667.

Sincerely,

Elizabeth Willard

Elizabeth Willard
Environmental Specialist

Enclosure

c: Ron Davis, Operator (rdavis@gulfbreezefl.gov)

Compliance Inspection Form – Consecutive Systems

BASIC INSPECTION AND SYSTEM INFORMATION

Water system:	SOUTH SANTA ROSA UTILITIES	System PWS #:	1570593	Date of inspection:	7/5/2014
System address:	1116 CORONADO DRIVE	City	GULF BREEZE	State FL	Zip 32561
System phone:	850-934-4058	Cell:	850-554-1504 (Dale)		
Fax number:	850-934-5150	Email:	N/A		
Owner name:	VERNON PRATHER	Owner title:	DIRECTOR OF PUBLIC WORKS		
Owner address:	POST OFFICE BOX 640	City:	GULF BREEZE	State FL	Zip 32562
Owner phone:	850-934-5100	Cell:	N/A		
Fax number:	850-934-5150	Email:	vprather@gulfbreezefl.gov		

Operator required? ☒Yes ☐No (If "No", *Operator* sections not applicable) Operator name: RON DAVIS

Operator Email RDAVIS@GULFBREEZEFL.GOV Phone 850-232-9702 Fax: 850-934-5150

S=Satisfactory U=Unsatisfactory ~=Not Applicable *=See comment below

SOURCE

PWS Name of supplier	Fairpoint / Midway/ ECUA
PWS number of supplier	1570349 / 1570470/ 1170525
Chlorine residual at entry point	0.65mg/L / 7.5pH

Comment: In April 2014, SSRU began using ECUA water due to disruption of the Fairpoint transmission line. Currently, the water is pumped from ECUA to Gulf Breeze to SSRU. Repairs to the Fairpoint line have been delayed and it is unknown when it will be back in service.

TREATMENT

Plant number	1	Comment
O & M manual/log compliant?	S	See Remarks
Cl storage compliant (no organics/acid/sun)	S	
Spare chlorinator compliant?	S	
Loss of chlorine alarm compliant?	U	Tested-did not call out. See Remarks
Treated sample tap provided?	S	
Security measures compliant?	S	

Other: None

HYPO			
GAS	Cl room compliant?(separate/ventilation)	S	
	Scales compliant?	S	
	Auto switchover provided?	S	
	Safety:(SCBA/Gloves/Ammonia/Panic HW)	S	
OTHER			
	Other: ORTHO-POLY PHOSPHATE	S	

STORAGE

Tank Name/Number	E	G	
Inspections compliant? (annual/5yr)	*/S	S/S	See Comments
Overflow/Vents compliant? (elevated)	S	S	
Pressure relief valve provided? (hydro)	~	~	
Security measures compliant?	S	S	See Comments

DISTRIBUTION

Water system map compliant?	Yes
Flushing of dead ends compliant?	Yes
Valve maintenance compliant?	Yes
Chlorine residual > 0.2 mg/L	Yes

PUMPS

Number of high service pumps?	3
High service pumps functional?	Yes

MANAGEMENT

CCC devices tested annually?	Yes
Flow meter accuracy checked?	See Comments
ERP, Pb&Cu, DBP, & CCC Plan?	Yes
Permits in use without clearance?	None outstanding

OPERATOR

Operator visits compliant?	Yes
Plant checked 5 times per week?	Yes
MORs submittal compliant?	Yes
Distribution Operator & Logs?	Yes/Yes

FOLLOW-UP TO LAST INSPECTION OR SURVEY

Last inspection fully compliant? ☒Yes ☐No (*see below*)	
Number of deficiencies last cited?	N/A
Were any of the deficiencies "repeat"?	N/A
Response from system submitted?	N/A
Have deficiencies been addressed?	N/A

MONITORING SCHEDULE

CHEMICAL	ANALYSIS DATE	NEXT DUE
Asbestos	8-11	2020
Stage 2 DBPs	10-13,1-14, 4-14	**7-14**
Pb/Cu	2014	2017

Consecutive system

The System indicated that both the Stage 2 and the Lead and Copper samples were taken prior to this inspection.

FIELD SAMPLING RESULTS					
Plant Cl (mg/L)	S	0.65/7.5	Distribution Cl (mg/L) / pH	0.7/7.4	Oak Point

COMMENTS

- The 5-year washout and inspection for the elevated tank was completed June 2013. The system will contact the tank company to perform the annual inspection as soon as possible. All other tank inspections are up-to-date.
- No permits outstanding prior to inspection.
- Re-conditioned flow meter installed in place of old meter- done 8/7/2014

AREAS OF CONCERN

None noted at time of inspection.

REMARKS AND RECOMMENDATIONS

CROSS-CONNECTION CONTROL (C3) PROGRAM : Rule 62-555.360 Effective May 5, 2014

There are number of changes to the rule which may affect your cross-connection control program. Included in the new rule is the requirement that annual reports must be submitted. The first annual report must cover calendar year 2016 and subsequent annual reports must cover each calendar year thereafter. A copy of this rule has been attached to this report (Pages 3-7) for your convenience. Please read over the rule and employ any changes to your program where necessary.

CONTINUOUS CHLORINE ANALYZER/CHLORINE ALARM

During the inspection, the chorine alarm for the two chlorine bottles did not call system personnel when tested as required per Rule 62-555.320(13)(a)9. This was repaired on August 7th per emails from Ron Davis; however, it raised a possible future problem for the SSRU plant. At this time, the plant is receiving water from ECUA by way of Gulf Breeze (GB) water system. GB has a continuous chlorine analyzer that will alert the system personnel if the chlorine is below a certain set level from the incoming ECUA water. While this is not an issue since water is not coming from Fairpoint currently, SSRU should consider a continuous chlorine analyzer for the SSRU plant as well at a future date.

Additional Items of Note:

1. The Valve Program is an on-going program. Most valves have already been exercised in 2014 but the remainder will be by the end of the year.
2. The Flushing Program is set to have all dead-ends flushed quarterly. Hydrants not on dead-ends are flushed annually.
3. The distribution system log does not have all operators signing when entries are made. The system said this would be corrected immediately.
4. A new "NW District Contact Information" sheet is attached at the end of this report (Page 8).

Elizabeth Willard

Inspector: _____ Date: August 7, 2014

Elizabeth Willard

Reviewer: _____ Date: August 7, 2014

Scott Grubbs

62-555.360 Cross-Connection Control for Public Water Systems.

(1) Cross-connections, as defined in Rule 62-550.200, F.A.C., are prohibited unless appropriate backflow protection is provided to prevent backflow through the cross-connection into the public water system. This does not prohibit a public water system from being interconnected to another public water system of the same type without backflow protection (i.e., a community water system [CWS] may be interconnected to another CWS without backflow protection, a non-transient non-community water system [NTNCWS] may be interconnected to another NTNCWS without backflow protection, and a transient non-community water system [TWS] may be interconnected to another TWS without backflow protection).

(a) Appropriate backflow protection for various applications is described in *Recommended Practice for Backflow Prevention and Cross-Connection Control: AWWA Manual M14*, Third Edition, as clarified and modified in paragraphs (b) and (c) below and in Table 62-555.360-2, which appears at the end of this section. The third edition of *AWWA Manual M14* is incorporated herein by reference; is available from the American Water Works Association, 6666 West Quincy Avenue, Denver, CO 80235, www.awwa.org; and is available for review at the Department of Environmental Protection, Source and Drinking Water Program, MS 3520, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, at the Department of Environmental Protection district offices, and at the Approved County Health Departments.

(b) Except for the temporary cross-connections described in paragraph (c) below, cross-connections between a public water system and a wastewater system or reclaimed water system are prohibited (i.e., an air gap shall be maintained between any public water system and any wastewater system or reclaimed water system). The Department shall allow an exception to this requirement if the supplier of water provides justification for the exception and provides alternative backflow protection that achieves a level of reliability and public health protection similar to that achieved by an air gap (e.g., two biannually-tested reduced-pressure principle assemblies installed in series); however, in no case shall the Department allow a single, annually-tested mechanical backflow preventer to be used as the only protection against backflow of wastewater or reclaimed water into a public water system.

(c) Temporary cross-connections may be made between a public water system and a wastewater system or reclaimed water system for either of the following purposes:

1. To supply water for flushing or testing a new wastewater force main or new reclaimed water main, in which case a double check valve assembly or reduced-pressure principle assembly shall be provided at the cross-connection.

2. To supply water for temporarily operating a new reclaimed water main that has not yet been connected to a reclaimed water supply, in which case a reduced-pressure principle assembly shall be provided at the cross-connection.

(2) Each community water system (CWS) shall establish and implement a cross-connection control program utilizing backflow protection at or for service connections from the CWS in order to protect the CWS from contamination caused by cross-connections on customers' premises. This program shall include a written plan that is developed using recommended practices of the American Water Works Association set forth in *Recommended Practice for Backflow Prevention and Cross-Connection Control: AWWA Manual M14*, Third Edition, as clarified and modified in paragraph (a) below. The third edition of *AWWA Manual M14* is incorporated herein by reference and is available as indicated in paragraph 62-555.360(1)(a), F.A.C.

(a) The minimum components that each CWS shall include in its written cross-connection control plan are listed and described in Table 62-555.360-1, which appears at the end of this section. The categories of customers for which each CWS shall ensure backflow protection is provided at or for the service connection from the CWS to the customer are listed in Table 62-555.360-2, which appears at the end of this section.

(b) Each CWS serving more than 10,000 persons shall prepare and submit cross-connection control program annual reports. The first annual report shall cover calendar year 2016, and subsequent annual reports shall cover each calendar year thereafter. These reports shall be prepared using Form 62-555.900(13), Cross-Connection Control Program Annual Report, effective 5-5-14, which is incorporated herein by reference and which is available as described in Rule 62-555.900, F.A.C., and at http://www.flrules.org/Gateway/reference.asp?No=Ref-04104. These reports shall be submitted to the appropriate Department of Environmental Protection district office or Approved County Health Department within three months after the end of the calendar year covered by the report.

(3) Upon discovery of a prohibited or inappropriately protected cross-connection, public water systems either shall ensure that the cross-connection is eliminated, shall ensure that appropriate backflow protection is installed to prevent backflow into the public water system, or shall discontinue water service. If the discovered cross-connection is on the premises of a customer of a community water system (CWS) and if the customer's premises is in a category described in Table 62-555.360-2, which appears at the end of this section, the CWS shall ensure that appropriate backflow protection is provided at or for the water service connection to the customer regardless of whether the cross-connection is eliminated or whether internal backflow protection is installed at the cross-connection to the customer's plumbing system.

Table 62-555.360-1: Minimum Components that Each Community Water System (CWS) Shall Include in Its Written Cross-Connection Control (CCC) Plan (Effective 5-5-14)

Component Number and Description
I. Legal authority for the CWS's CCC program – i.e., an ordinance, a bylaw or resolution, or water service rules and regulations. The legal authority shall include or reference Components 2 and 3 below.
II. The CWS's policy establishing where backflow protection at or for service connections from the CWS is mandatory. A. This policy shall identify categories of customers for which the CWS is requiring backflow protection at or for the service connection to the customer and shall specify the minimum backflow protection that the CWS is requiring for each such category of customers. B. This policy shall be no less stringent than Table 62-555.360-2, which appears at the end of Rule 62-555.360, F.A.C.
III. The CWS's policy regarding ownership, installation, inspection/testing, and maintenance of backflow protection that the CWS is requiring at or for service connections from the CWS. A. This policy shall specify whether the CWS or customer is responsible for installation, inspection/testing, and maintenance of backflow protection being required at or for service connections. B. This policy shall specify design and performance standards, and shall specify installation criteria, for new backflow protection being required at or for service connections. Installation criteria shall be consistent with installation criteria in *AWWA Manual M14* as incorporated into subsection 62-555.360(2), F.A.C., and shall assure the backflow protection is installed as close as practical to the CWS's meter or customer's property line but, in all cases, before the first distribution line off of the customer's water service line. C. This policy shall specify the frequency for inspecting air gaps (AGs) being required at or for service connections and shall specify qualifications for persons inspecting such AGs. All AGs being required at or for service connections pursuant to Table 62-555.360-2, which appears at the end of Rule 62-555.360, F.A.C., shall be inspected at least annually. D. This policy shall specify the frequency for testing backflow preventer assemblies[1] being required at or for service connections, shall specify qualifications for persons testing such assemblies, and shall specify test procedures for such assemblies. Assemblies being required at or for non-residential service connections[2] pursuant to Table 62-555.360-2, which appears at the end of Rule 62-555.360, F.A.C., shall be tested after installation or repair and at least annually thereafter and shall be repaired if they fail to meet performance standards. Assemblies being required at or for residential service connections[2] pursuant to Table 62-555.360-2 shall be tested after installation or repair and at least biennially thereafter and shall be repaired if they fail to meet performance standards. E. This policy shall specify the frequency for refurbishing or replacing dual check devices (DuCs) being required at or for service connections. DuCs being required at or for service connections pursuant to Table 62-555.360-2, which appears at the end of Rule 62-555.360, F.A.C., shall be refurbished or replaced at least once every 5 to 10 years or at a lesser frequency determined by the CWS if the CWS documents that the lesser frequency is appropriate based on data from spot-testing DuCs in its system or based on data from backflow sensing meters in its system.
IV. The CWS's procedures for evaluating customers' premises to establish the category of customer and the backflow protection being required at or for the service connection(s) from the CWS to the customer.[3] A. The CWS shall evaluate the customer's premises at a newly constructed service connection before the CWS begins supplying water to the service connection. B. The CWS shall evaluate the customer's premises at an existing – i.e., previously constructed – service connection whenever the customer connects to a reclaimed water distribution system, whenever an auxiliary water system is discovered on the customer's premises, whenever a prohibited or inappropriately protected cross-connection is discovered on the customer's premises, and whenever the customer's premises is altered under a building permit in a manner that could change the backflow protection required at or for a service connection to the customer.
V. The CWS's procedures for maintaining CCC program records.[4] A. The CWS shall maintain a current inventory of backflow protection being required at or for service connections from the CWS. B. The CWS shall maintain records of the installation, inspection/testing, and repair of backflow protection being required at or for service connections from the CWS.

[1] Backflow preventer assemblies include the following: double check valve assemblies (DCs) and double check detector assemblies (DCDAs); pressure vacuum breaker assemblies (PVBs); and reduced-pressure principle assemblies (RPs) and reduced-pressure principle detector assemblies (RPDAs).

[2] For the purpose of this table, "residential service connection" means any service connection, including any dedicated irrigation or fire service connection, that is two inches or less in diameter and that supplies water to a building, or premises, containing only dwelling units; and "non-residential service connection" means any other service connection.

[3] CWSs may evaluate customers' premises using questionnaires, reviews of construction plans or pertinent records, on-site inspections, or any combination thereof.

[4] CWSs may maintain all records in either electronic or paper format.

Table 62-555.360-2: Categories of Customers for Which Each Community Water System (CWS) Shall Ensure Minimum Backflow Protection Is Provided at or for the Service Connection from the CWS to the Customer (Effective 5-5-14)

Category of Customer	Minimum Backflow Protection[1] to Be Provided at or for the Service Connection from the CWS to the Customer
Beverage processing plant, including any brewery	DC if the plant presents a low hazard[2]; or RP if the plant presents a high hazard[2]
Cannery, packing house, rendering plant, or any facility where fruit, vegetable, or animal matter is processed, excluding any premises where there is only restaurant or food service facility	RP
Car wash	RP
Chemical plant or facility using water in the manufacturing, processing, compounding, or treatment of chemicals, including any facility where a chemical that does not meet the requirements in paragraph 62-555.320(3)(a), F.A.C., is used as an additive to the water	RP
Dairy, creamery, ice cream plant, cold-storage plant, or ice manufacturing plant	RP[3]
Dye plant	RP
Film laboratory or processing facility or film manufacturing plant, excluding any small, noncommercial darkroom facility	RP
Hospital; medical research center; sanitarium; autopsy facility; medical, dental, or veterinary clinic where surgery is performed; or plasma center	RP
Laboratory, excluding any laboratory at an elementary, middle, or high school	RP
Laundry (commercial), excluding any self-service laundry or Laundromat	RP
Marine repair facility, marine cargo handling facility, or boat moorage	RP
Metal manufacturing, cleaning, processing, or fabricating facility using water in any of its operations or processes, including any aircraft or automotive manufacturing plant	DC if the facility presents a low hazard[2]; or RP if the facility presents a high hazard[2]
Mortuary	RP
Premises where oil or gas is produced, developed, processed, blended, stored, refined, or transmitted in a pipeline or where oil or gas tanks are repaired or tested, excluding any premises where there is only a fuel dispensing facility	RP
Premises where there is an auxiliary or reclaimed water system[4,5]	A. At or for a residential service connection[6]: DuC[7] B. At or for a non-residential service connection[6]: DC if the auxiliary or reclaimed water is a low hazard[8,9]; or RP if the auxiliary or reclaimed water is a high hazard[8,9]
Premises where there is a cooling tower	RP
Premises where there is an irrigation system that is using potable water and that… I. Is connected directly to the CWS's distribution system via a dedicated irrigation service connection	I. At or for a residential or non-residential dedicated irrigation service connection[6]: PVB if backpressure cannot develop in the downstream piping[10]; or RP if backpressure could develop in the downstream piping[10]
II. Is connected internally to the customer's plumbing system	II. None[11]

Category of Customer	Minimum Backflow Protection[1] to Be Provided at or for the Service Connection from the CWS to the Customer
Premises where there is a wet-pipe sprinkler, or wet standpipe, fire protection system that is using potable water and that…	
I. Is connected directly to the CWS's distribution system via a dedicated fire service connection[12]	I.A. At or for a residential dedicated fire service connection[6]: DuC if the fire protection system contains no chemical additives and is not connected to an auxiliary water system[4]; or RP or RPDA if the fire protection system contains chemical additives or is connected to an auxiliary water system[4,13] I.B. At or for a non-residential dedicated fire service connection[6]: DC or DCDA if the fire protection system contains no chemical additives and is not connected to an auxiliary water system[4]; or RP or RPDA if the fire protection system contains chemical additives or is connected to an auxiliary water system[4,13]
II. Is connected internally to the customer's plumbing system	II. None[11]
Radioactive material processing or handling facility or nuclear reactor	RP
Paper products plant using a wet process	RP
Plating facility, including any aircraft or automotive manufacturing plant	RP
Restricted-access facility	RP
Steam boiler plant	RP
Tall building – i.e., a building with five or more floors at or above ground level	DC if the customer has no potable water distribution lines connected to the suction side of a booster pump; or RP if the customer has one or more potable water distribution lines connected to the suction side of a booster pump
Wastewater treatment plant or wastewater pumping station	RP
Customer supplied with potable water via a temporary or permanent service connection from a CWS fire hydrant	Varies[14]

[1] Means of backflow protection, listed in an increasing level of protection, include the following: a dual check device (DuC); a double check valve assembly (DC) or double check detector assembly (DCDA); a pressure vacuum breaker assembly (PVB); a reduced-pressure principle assembly (RP) or reduced-pressure principle detector assembly (RPDA); and an air gap. A PVB may not be used if backpressure could develop in the downstream piping.

[2] The CWS shall determine the degree of hazard. "Low hazard" or "non-health hazard" and "high hazard" or "health hazard" are defined in *AWWA Manual M14* as incorporated in paragraph 62-555.360(1)(a), F.A.C., and subsection 62-555.360(2), F.A.C.

[3] A DC may be provided if it was installed before 5-5-14; and if such a DC is replaced on or after 5-5-14, it may be replaced with another DC.

[4] For the purpose of this table, "auxiliary water system" means a pressurized system of piping and appurtenances using auxiliary water, which is water other than the potable water being supplied by the CWS and which includes water from any natural source such as a well, pond, lake, spring, stream, river, etc., includes reclaimed water, and includes other used water or industrial fluids described in *AWWA Manual M14* as incorporated in paragraph 62-555.360(1)(a), F.A.C., and subsection 62-555.360(2), F.A.C.; however, "auxiliary water system" specifically excludes any water recirculation or treatment system for a swimming pool, hot tub, or spa. (Note that reclaimed water is a specific type of auxiliary water and a reclaimed water system is a specific type of auxiliary water system.)

[5] The Department shall allow an exception to the requirement for backflow protection at or for a residential or non-residential service connection from a CWS to premises where there is an auxiliary or reclaimed water system if all of the following conditions are met:

- The CWS is distributing water only to land owned by the owner of the CWS.
- The owner of the CWS is also the owner of the entire auxiliary or reclaimed water system up to the points of auxiliary or reclaimed water use.
- The CWS conducts at least biennial inspections of the CWS and the entire auxiliary or reclaimed water system to detect and

eliminate any cross-connections between the two systems.

[6] For the purpose of this table, "residential service connection" means any service connection, including any dedicated irrigation or fire service connection, that is two inches or less in diameter and that supplies water to a building, or premises, containing only dwelling units; and "non-residential service connection" means any other service connection.

[7] A DuC may be provided only if there is no known cross-connection between the plumbing system and the auxiliary or reclaimed water system on the customer's premises. Upon discovery of any cross-connection between the plumbing system and any reclaimed water system on the customer's premises, the CWS shall ensure that the cross-connection is eliminated. Upon discovery of any cross-connection between the plumbing system and any auxiliary water system other than a reclaimed water system on the customer's premises, the CWS shall ensure that the cross-connection is eliminated or shall ensure that the backflow protection provided at or for the service connection is equal to that required at or for a non-residential service connection.

[8] Reclaimed water regulated under Part III of Chapter 62-610, F.A.C., is a low hazard unless it is stored with surface water in a pond that is part of a stormwater management system, in which case it is a high hazard; well water is a low hazard unless determined otherwise by the CWS; industrial fluids and used water other than reclaimed water are high hazards unless determined otherwise by the CWS; reclaimed water not regulated under Part III of Chapter 62-610, F.A.C., and surface water are high hazards.

[9] Upon discovery of any cross-connection between the plumbing system and any reclaimed water system on the customer's premises, the CWS shall ensure that the cross-connection is eliminated.

[10] A DC may be provided if both of the following conditions are met:

- The dedicated irrigation service connection initially was constructed before 5-5-14.
- No chemicals are fed into the irrigation system.

[11] The CWS may rely on the internal backflow protection required under the *Florida Building Code* or the predecessor State plumbing code. The CWS may, but is not required to, ensure that such internal backflow protection is inspected/tested and maintained the same as backflow protection provided at or for service connections from the CWS.

[12] The Department shall allow an exception to the requirement for backflow protection at or for a residential or non-residential dedicated fire service connection from a CWS to a wet-pipe sprinkler, or wet standpipe, fire protection system if both of the following conditions are met:

- The fire protection system was installed and last altered before 5-5-14.
- The fire protection system contains no chemical additives and is not connected to an auxiliary water system as defined in Footnote 4.

[13] Upon discovery of any cross-connection between the fire protection system and any reclaimed water system on the customer's premises, the CWS shall ensure that the cross-connection is eliminated.

[14] The CWS shall ensure that backflow protection commensurate with the degree of hazard is provided at or for the service connection from its fire hydrant.

Rulemaking Authority 403.086(8), 403.853(3), 403.861(9) FS. Law Implemented 403.086(8), 403.852(12), 403.853(1), 403.855(3), 403.861(17) FS. History–New 11-19-87, Formerly 17-22.660, Amended 1-18-89, 1-3-91, 1-1-93, Formerly 17-555.360, Amended 8-28-03, 5-5-14.

DEP Northwest District Potable Water Office
160 W. Government Street, Suite 308
Pensacola, FL 32502

last updated 6/13/14

DEP NW District Contacts	fax: (850) 595-8392	Important Reminders
~Section Supervisor ~Permitting	John H. Pope (850) 595-0633 john.pope@dep.state.fl.us	The Department is committed to the expeditious review of applications and issuance of permits. 1) Water systems must verify that written clearance has been granted by this office before providing water to (placing into permanent operation) any permitted PWS construction project; 2) Please notify this office in writing before modifying any permitted work so it can be determined whether a supplemental permit application will be required.
~Bacteriological & Ground Water Rule Compliance ~Potable Water Enforcement	David Hines (850) 595-0593 david.hines@dep.state.fl.us	MONITORING - Please sample EARLY to prevent last-minute mix-ups and allow resampling within the monitoring period if necessary! Lab results are due within the first 10 days following the end of the required monitoring period. Reporting forms that are Incomplete, incorrect, or illegible may be considered invalid.
~Boil Water Notices ~Monthly Operation Reports	Joey Whibbs 850-595-0636 earl.whibbs@dep.state.fl.us	Systems are required to contact FDEP regarding scheduled or emergency events which result in a loss of pressure to any part of the distribution system. PBWN refresher presentations are available for system representatives and operators. Contact Joey to schedule a presentation. Systems are encouraged to email their MORs to epostnwdwfpws@dep.state.fl.us.
~Chemical Compliance	Toni Touart (850) 595-0658 toni.touart-rohlke@dep.state.fl.us	Call if you have any questions on requirements for 2014.
~Consumer Confidence Reports ~Capacity Development	Elizabeth Willard (850) 595-0667 elizabeth.willard@dep.state.fl.us	For community water systems, CCRs must be delivered by July 1st every year.
~Inspection Program ~Cross Connection Control ~Capacity Analysis Reports ~Permit Clearances ~GPS/GIS	Scott Grubbs (850) 595-0587 scott.grubbs@dep.state.fl.us	It is recommended that you look over some of your plans, such as Emergency Response Plan and/or bacteriological sampling plan, to ensure that information is up-to-date (i.e. contact information, water system characteristics, etc.).
~Lead and Copper Tap Monitoring	Karianne Pezdirtz (850) 595-0632 karianne.pezdirtz@dep.state.fl.us	L&C tap sampling sites should be verified ahead of sampling to ensure homes are not vacant and that homeowners are still willing to participate.
~Stage 2 D/DBPs ~Disinfectant Residuals	Nicole Hetzel (850) 595-0660 nicole.hetzel@dep.state.fl.us	All community and NTNC systems not currently monitoring under Stage 2 D/DBP must begin monitoring in 3rd Quarter 2014. A Stage 2 D/DBP Plan must be submitted prior to 3rd Quarter 2014.
~ Panama City Office	Josie Penton (850) 767-0045 josie.penton@dep.state.fl.us	
	Mark Sumner (850) 767-0046 Mark.C.Sumner@dep.state.fl.us	
~Tallahassee Office	Marcel Goss (850) 245-2950 marcel.goss@dep.state.fl.us	

Important Numbers and Websites	
State Watch Office	800-320-0519
FDEP Operator Certification	850-245-7500
FDEP State Revolving Fund	850-245-8358
FDEP Website	http://www.dep.state.fl.us/
FDEP Northwest District Website	http://www.dep.state.fl.us/northwest/
Storm Tracker Website	http://waterwebprod.dep.state.fl.us/stormtracker/login.asp User Name: *florida* Password: *storm*
OCULUS-FDEP electronic document management system	http://depedms.dep.state.fl.us/Oculus
FRWA	http://www.frwa.net/ 850-668-2746
Floridan Newsletter	http://www.dep.state.fl.us/water/drinkingwater/floridan.htm
Tapline Newsletter	http://www.dep.state.fl.us/northwest/NWDDrinkingWater/tapline.htm

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
160 W GOVERNMENT ST., SUITE 308
PENSACOLA, FL 32502-5740

RICK SCOTT
GOVERNOR

CARLOS LOPEZ-CANTERA
LT. GOVERNOR

HERSCHEL T. VINYARD JR.
SECRETARY

August 21, 2014

Mr. Vernon L. Prather
Director of Public Services
City of Gulf Breeze
1070 Shoreline Drive
Gulf Breeze, Florida 32561-3451
vprather@ci.gulf-breeze.fl.us

Re: South Santa Rosa Utilities System WWTF
Facility ID FLA010212
Santa Rosa County

Dear Mr. Prather:

Department personnel conducted a compliance inspection of the above-referenced facility on June 12, 2014. Based on the information provided during the inspection, the facility was determined to be in compliance. A copy of the inspection report is attached for your records and any non-compliance items which may have been identified at the time of the inspection have been corrected.

The Department appreciates your efforts to maintain this facility in compliance with state and federal rules. If you have any questions or comments, please contact Dana Vestal at (850) 595-0659 or by e-mail at dana.vestal@dep.state.fl.us.

Sincerely,

Kimberly R. Allen
Environmental Manager
Wastewater Compliance Assurance Program

KRA/dv/c

Enclosures: Inspection Report Form
Inspection Report Summary

c: Jason Randell, Operator (jrandell@ci.gulf-breeze.fl.us)

COMET ENTRY DATE
06/13/2014

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
WASTEWATER COMPLIANCE INSPECTION REPORT
FACILITY AND INSPECTION INFORMATION

Name and Physical Location of Facility:	WAFR ID:	County:	Entry Date/Time:
South Santa Rosa Utilities System WWTF 1150 Circle Lane Gulf Breeze, Florida 32563-3451	FLA010212	Santa Rosa Phone:	06/12/2014 01:01 PM CST Exit Date/Time: 06/12/2014 03:12 PM CST

Name(s) of Field Representative(s):	Title:		Phone:
Jason Randell	Lead Operator	A14581	(850) 232-9700

Name and Address of Permittee or Designated Representative:	Title:	Phone:
Vernon L. Prather 1070 Shoreline Drive Gulf Breeze, Florida 32561-3451	Director of Public Services	(850) 934-5110

Inspection Type:	C	E	I		Samples Taken? (Y/N): N	Sample ID: NA	Samples Split? (Y/N): N
X Domestic		Industrial			Were Photos Taken? (Y/N): Y	Logbook Volume: II	Pages: 75 - 87
	Advance Notification Required (Security)					X	Facility Notified in Advance of Inspection

FACILITY COMPLIANCE AREAS EVALUATED

IC: In Compliance; MC: Minor Non-Compliance; NC: Out of Compliance; SC: Significantly Out of Compliance;
NA: Not Applicable; NE or Blank: Not Evaluated

Significant Non-Compliance Criteria Should be Reviewed When Out of Compliance Ratings Are Given in Areas Marked by a "♦ "

PERMITS/ORDERS		SELF MONITORING PROGRAM		FACILITY OPERATIONS		EFFLUENT/DISPOSAL	
IC	1. ♦Permit	IC	3. Laboratory	IC	6. Facility Site Review	MC	9. ♦Effluent Quality
IC	2. ♦Compliance Schedules	IC	4. Sampling	IC	7. Flow Measurement	IC	10. ♦Effluent Disposal
		IC	5. ♦Records & Reports	IC	8. ♦Operation & Maintenance	IC	11. Biosolids/Sludge
						IC	12. Groundwater
NA	14. Other					NE	13. SSO Survey

Facility and/or Order Compliance Status:	X	In Compliance		Out of Compliance		Significantly Out of Compliance

Recommended Actions: See Inspection Report Summary below

Name(s) and Signature(s) of Inspector(s)	District Office/Phone Number	Date
Dana Vestal Dana Vestal	NWD/(850) 595-0659	07/24/2014
Signature of Reviewer	**District Office/Phone Number**	**Date**
Kim Allen Kimberly R Allen	NWD/(850) 595-0553	08/21/2014

Single Event Violation Code(s):

INSPECTION REPORT SUMMARY

Facility Name: South Santa Rosa Utilities System WWTF
Facility ID: FLA010212
Inspection Type: Compliance Evaluation Inspection (CEI)
Inspection Date: June 13, 2014

FACILITY BACKGROUND:
Facility Address: 1150 Circle Lane, Gulf Breeze, Florida 32563-3451
Program/Permit Information: DW, permit issue date: 12/21/2012, expiration date: 12/20/2017
Treatment Summary: This is an advanced domestic wastewater treatment facility with five stage Bardenpho nutrient removal system with disposal to a slow-rate public access land application system.
Permitted Capacity: 2.0 million gallons per day (MGD) annual average daily flow (AADF), the facility's flow is limited to 1.92 MGD AADF pending availability of adequate wet weather storage for slow-rate public access land application system. The facility also has a 2 million gallons concrete ground tank for reject storage.

1. PERMIT: In Compliance

Observation: FDEP Permit #FLA010212 was issued on December 21, 2012 for the operation of this facility and it expires on December 20, 2017. On June 27, 2013 a minor permit revision was issued authorizing modifications to the facility's chlorine contact chamber (CCC). On December 23, 2013, a minor permit revision was issued modifying the compliance schedule for the completion of the CCC modifications, See the Compliance Schedules section below for further details. At the time of this inspection the facility was in operation and a copy of the permit and all subsequent revisions were onsite and available for review.

2. COMPLIANCE SCHEDULES: In Compliance

Observation: Permit Condition VI.1.: All terms of the compliance schedules listed in the permit have been completed as required. Please see the table below. The facility has completed the modifications to the CCC. There were some delays beyond the facility's reasonable control. At the time of the inspection the new CCC was fully operational.

Improvement Action	Completion Date
a. Identify all permitted biosolids application sites that will be used for land application of biosolids.	January 1, 2013
b. Cease land applying biosolids at sites not permitted under Chapter 62-640, F.A.C., as amended on August 29, 2010	January 1, 2013
c. Submit to the Department Form 62-640.210(2)(a), Treatment Facility Biosolids Plan, listing the permitted biosolids application site(s) for land application of the facility's biosolids.	30 days after land application of biosolids at a Department permitted site
~~d. Complete repair of south chlorine contact chamber and install continuous meters pursuant to Part III protocol.~~	~~June 1, 2013~~
e. Complete CCC modifications approved by the 022 revision.	April 30, 2014

3. LABORATORY: In Compliance

Observation: Permit Condition I.A.1.: The facility's contract laboratory, Future Labs, performs effluent analyses for five-day carbonaceous biochemical oxygen demand (CBOD5), total suspended solids (TSS), total nitrogen, total phosphorus, fecal coliform bacteria Monday through Thursday, Giardia, Cryptosporidium; and groundwater and biosolids analyses. Analytical Services, Inc., performs fecal coliform bacteria analyses Friday through Sunday. The operator performs effluent analyses for total residual chlorine (TRC), pH, and turbidity at the facility.

FDEP SOPs FT1000, FT2000, Section 3.2.5.2 of FT2000, and FT1900:

Observation: The calibration of the facility's Hach Pocket II hand-held chlorine meter is verified daily with secondary gel standards.

Observation: The facility's ProMinent inline chlorine meter is calibrated monthly with potassium permanganate by N,N Diethyl-1,4 Phenylenediamine Sulfate (DPD) procedures. The calibration of the meter is verified daily with against the calibrated hand-held chlorine meter.

Observation: Secondary standards are checked against primary standards monthly. The DPD, primary and secondary standards that were onsite at the time of the inspection expire in March 2015 for Lot 30908, October 2015 for Lot A3288 and December 2015 for Lot A3344B, respectively. The facility uses a DPD dispenser.

FDEP SOPs FT1000, FT1100, and FT1900:

Observation: The facility's Oakton bench top pH 510 series pH meter is calibrated daily, with appropriate buffers.

Observation: The facility's Honeywell inline pH meter is calibrated daily with appropriate buffers.

Observation: The pH buffers that were onsite at the time of the inspection expire in May 2015 the Lot 3AE487 for the 4 buffer and in April 2015 for Lot 3AD449 for the 7 buffer.

FDEP SOPs FT1000, FT1600, and FT1900:

Observation: The facility's Hach 2100P hand-held turbidimeter is calibrated monthly with formazin standard. The calibration of the turbidimeter is verified daily with StablCal®.

Observation: The facility's Hach sc200 inline turbidimeter is calibrated monthly with formazin standard. The calibration of the turbidimeter is verified daily against the calibrated hand-held turbidimeter.

Observation: The formazin standard that were onsite at the time of the inspection expires in December 2015 for Lot A3360, and the Scatter Turbidimeter Standard Plate for Lot A3164 was examined during the inspections with no visible scratches.

Additional Comments: Compliance assistance was provided to the facility concerning the new turbidimeter. The turbidimeter was not adequate for wastewater and could not be calibrated below 300 NTU. Following the inspection, the operator notified the Department the facility will reinstall the Hach 1720 NTU turbidimeter reverting to previous acceptable calibration methods.

Additional Comments: During calibration verification of meters, if the values observed for chlorine, pH, turbidity vary ± 10% for chlorine (or 20% if verifying an inline meter against a calibrated hand-held meter), 0.2 standard units for pH or 10% for turbidity (or 20% if verifying an inline meter against a calibrated hand-held meter), it shall be assumed that the calibration of the meters is unstable. The cause of the instability must be determined and corrective actions must be taken to bring the meters into stable calibration, such as maintenance, repair or replacement.

FDEP SOP FT1400:

Observation: At the time of this inspection, the facility was in compliance with the requirements below:

> The accuracy of each of the facility's thermometers used for ensuring wastewater compliance must be verified at least annually against a National Institute of Standards and Technology (NIST) traceable thermometer which has been recertified at least once every two years. Any temperature difference between the measurement thermometer and the NIST thermometer must be used as a correction factor in subsequent temperature readings taken with the measurement thermometer. Each thermometer must meet the minimum graduation requirement of 0.5°C, and have a temperature range of at least -5°C to +45°C (US Geological Survey, National Field Manual for the Collection of Water-Quality Data, Book 9, Chapter A6, Field Measurements, Section 6.1, Temperature).

The facility's thermometers were calibrated on October 18, 2013 for Serial Number 130624737, due for recalibration by October 18, 2015, and Serial Number 130416172 was calibrated on

July 18, 2013, and is due for recalibration by July 18, 2015. There is a thermometer in the sampler and lab fridge. Control Company provides the calibrations for the facility's thermometers.

4. SAMPLING: In Compliance

Observation: Permit Condition I.A.1: 16 hour flow proportional composite influent and effluent samples and grab samples are being taken at the facility, in accordance with the facility permit. The facility's in-line sample points are indicated in the picture below.

Yellow 1-turbidimeter sample probe, yellow 2-chlorine sample probe, yellow 3-pH sample probe, yellow 4-flow meter transducer, Blue A-north chlorine dosing point, Blue B-south chlorine dosing point.

5. RECORDS AND REPORTS: In Compliance

Observation: Permit Condition I.B.7.: DMRs and GMRs are being submitted to the Department in a timely manner.

Deficiency Description: During the inspection, a records review for the October 2013 effluent monitoring and 3rd Quarter 2013 groundwater monitoring event indicated that information and data on chain of custody sheets, laboratory reports, circle charts, and Discharge Monitoring Reports (DMR) and Groundwater Monitoring Reports (GMR) were consistent for biosolids and groundwater. However, one influent for CBOD5 reported on October 3, 2013 was reported

incorrectly. **The submitted DMR showed a value of 234.00 on this date for this parameter, but the lab report indicated the value was actually 134.**

Permit Condition IX.11: Refers to when the permittee becomes aware of relevant facts that were incorrect in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department.

Recommended Corrective Action: During the inspection, compliance assistance was provided and the value was corrected on Part B of the DMR, and the calculated monthly average on Part A was updated and provided to the Department on site. No further action is required for this issue.

Observation: Permit Condition I.B.8. and I.B.9.: Analysis of reclaimed water or effluent, for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C. (except for asbestos, color, odor, and corrosivity), must occur upon application for each renewal of the facility operating permit or addition of new non-domestic wastewater dischargers to the collection system. The results of the analysis must be reported to the Department on Form 62-620.910(15) by June 28 following the analysis. The form must specify the reporting period as January 1 through December 31 of the year preceding the June 28 reporting deadline. In years when there has been no permit renewal application or addition of new non-domestic wastewater dischargers to the collection system, a written statement to this effect may be submitted in lieu of analytical results by the June 28 deadline, for the period January 1 through December 31 of the year preceding the June 28 deadline. If a written statement is submitted in lieu of analytical results, a DMR must still be submitted by June 28 with the notation "MNR" (monitoring not required) on each row of the DMR.

For the 2012 period, no additions of new non-domestic wastewater dischargers were added to the collection system since the last inspection. A written statement to this effect was submitted to the Department on June 14, 2013 for the monitoring period January 1, 2012 to December 31, 2012.

Additional Comments: Compliance assistance also was provided to the facility operator concerning the annual DMR for the annual reclaimed water or effluent analysis report that must be submitted annually whether the analysis is conducted. The monitoring period must be for the calendar year. The DMR submitted last year had an incorrect monitoring period on the DMR form. The operator stated they would ensure this year's DMR is submitted with the correct monitoring period.

Observation: Permit Condition I.B.9.: The Annual Reuse Report [Form 62-610.300(4)(a)(2)], for the period October 1 through September 30 of each year, is due by January 1 of the following year. The report for the monitoring period October 1, 2012 to September 30, 2013 was received on December 13, 2013.

Observation: Permit Condition V.B.: Capacity analysis reports are being submitted in compliance with the facility permit. The facility's permit requires annual submissions beginning February 28, 2014. The latest capacity analysis report was submitted on February 18, 2014. The previous capacity analysis report was submitted on February 13, 2012, along with the permit

application.

Observation: Rule 62-610.320(6), F.A.C., and Permit Conditions I.A.8. and I.B.10.: Prior to placing a Part III Public Access Reuse System into operation, an Operating Protocol for Part III Public Access Reuse Systems must be developed, and reviewed and approved by the Department, in accordance with Rule 62-610.320(6), F.A.C.

Upon permit issuance, the facility's Operating Protocol for Part III Public Access Reuse Systems dated December 11, 2012, was approved by the Department. At the time of this inspection, the facility's Part III Public Access Reuse System was in operation.

Additional Comments: Changes were needed to the facility's Operating Protocol to account for the changes at the facility with the new CCC setup. On July 24, 2014, an updated Operating Protocol was submitted to the Department for review and approval. Please note that during the inspection the facility was dosing both possible chlorine dosing locations with chlorine. This practice has since stopped. The current design indicates that the primary dosing location should be used for disinfection for the system.

When the Part III Public Access Reuse System is placed into operation, sampling for the pathogens *Giardia* spp. and *Cryptosporidium* spp. must be conducted and reported on Form 62-610.300(4)(a)(4) [Pathogen Monitoring Report]. The schedule for pathogen sampling and reporting must be in accordance with the facility permit, or if a sampling and reporting schedule is not included in the permit, sampling and reporting must be conducted no less frequent than once every two years, and the Pathogen Monitoring Report is due by November 28 of each even numbered year (2010, 2012, 2014, etc.).

Observation: The 2012 report was received by the Department on July 16, 2013. A resample was taken on December 5, 2012 and reported to the Department on July 16, 2013. The next sample event is required to occur in 2014, with the report due to the Department by November 28, 2014.

Additional Comments: The eDMR system has been replaced by the new EzDMR system. We encourage both current and prospective eDMR Users to register for the new system by visiting the DEP Business Portal at http://www.fldepportal.com/go/. Please note that ALL eDMR Certifiers will also need to submit new hardcopy Electronic Signature Agreement, which can be downloaded from the Portal. Facilities currently submitting reports via eDMR should continue to do so until EzDMR is activated. For more information, please contact us at EzDMRAdmin@dep.state.fl.us.

6. FACILITY SITE REVIEW: In Compliance

Observation: Permit Conditions I.B.6., VIII.5., VIII.6.: At the time of the inspection, the facility was fenced, screenings and grit were being removed and disposed of properly, and the facility's sampling points were safe and easily accessible.

Observation: The facility chlorinates the sand filters quarterly. At the time of the inspection, the facility's clarifiers were clean and the water was clear with no popups present. At the time of the inspection, the operator stated that the sludge blanket was 10 inches in the morning during the facility walk-through check. Sludge blankets are maintained below 2 feet.

Facility's south BNR train

7. FLOW MEASUREMENT: In Compliance

Observation: Permit Condition I.B.14.: The facility's flow meter was last calibrated on November 20, 2013, by Aqua Products for the East Tech Vantage 2210 flow meter with FBS sensor, which is in compliance with the annual flow meter calibration requirement of the facility permit. The flow meter read ± 5% during the calibration.

8. OPERATION AND MAINTENANCE: In Compliance

Observation: Permit Condition V.A.: According to records reviewed during the inspection, the required operator site time of a Class C or higher operator 24 hours/day for 7 days/week, with the lead operator being a Class B or higher that is employed at the facility is being met. The facility accomplishes this by operating three staff shifts.

Observation: Permit Conditions I.X.7.: The facility's generator is typically run once a week or at least monthly under load for 30 minutes. The generator was last run on May 27, 2014. Essential spare parts are maintained onsite specifically for the generator. Spare parts are available onsite for the rest of the wastewater facility.

Observation: Permit Condition V.C.1.: The facility's log book, meter calibration logs and sample logs were on site and reviewed during the inspection adequately recording the facility's daily operations.

Additional Comments: During the inspection, the facility was taking manual hourly composite samples.

Observation: Permit Condition V.C.1.i.: The facility's Operation and Maintenance manuals were on site and available for review during the inspection.

Observation: Permit Condition IX.7.: The facility keeps a monthly alarm test log.

9. EFFLUENT QUALITY: Minor Out of Compliance

Deficiency Description: A review of the DMRs for the period from July 2013 through March 2014 indicated the following effluent quality and/or permit limit violation.

Date	Parameter	Permit Limit	Analytical Value
10/16/2013	Fecal Coliform	25/100 mL Max.	26/100 mL Max.

Permit/Rule or Other Reference: Permit Condition I.A.1: Limits monthly maximum values for Fecal Coliform from R-001 to 25/100 mL.

Corrective Action: In the DMR Comments section submitted with the monthly DMR received by the Department on November 25, 2013 the facility operator indicated that the cause of this exceedance is unknown. The TSS value for the sample was <2 and the max turbidity for the day was 1 NTU. Following the exceedance the sand filters were dosed with chlorine for maintenance and no further exceedances were reported. No further action is required for this issue.

Observation: Permit Condition I.A.1: In lieu of collecting effluent samples by the Department as part of this inspection effluent quality was noted by observing the facility's in-line meters. Pictures were taken of the facility's digital effluent meter readouts at 1:34 p.m. CST. No violations of effluent quality and/or permit limits, or Rule 62-302, F.A.C., water quality criteria were noted. The values observed are listed below.

Parameter	Meter	Permit Limit	Analytical Value
pH	Honeywell	6.0 to 8.5 s.u.	6.61 s.u.
Turbidity	Hach sc200	Operating Protocol Setpoint	0.94 NTU
Total Residual Chlorine	ProMinent	1.0 mg/L Minimum	4.68 mg/L
Effluent Flow	East Tech Vantage 2210	1.92 mgd Annual Average	1.99 MGD

10. EFFLUENT DISPOSAL: In Compliance

Observation: Permit Condition IV.: The facility has a 3.0 million gallons per day (MGD) annual average daily flow (AADF) permitted capacity discharge to a slow-rate public access land application system (R-001). The spray irrigation areas exceeding 531 acres, user names, user

type, capacity and acreage listed in the table below. The facility's Part III public access reuse system was evaluated during this inspection, and no problems were noted.

South Santa Rosa Utility Systems WWTF Reuse System

User Name	User Type	Capacity (MGD)	Acreage
Tiger Point Golf Course	Golf Courses	1.300	225
Gulf Breeze Zoo	Athletic Complexes and Parks	0.150	16.8
Seven Businesses, Four Churches & three Residential areas	Business, Commercial and Industrial Parks	0.399	76.55
Tiger Point Sports Park	Business, Commercial and Industrial Parks	0.140	36
Shadow Lake Phase I & II	Residential Developments	0.154	39.61
Woodlawn Heights Subdivision	Residential Developments	0.135	35
ERS-1N, ERS-1S, ERS-2, ERS-3, ERS-4	Slow-rate sprayfield irrigation	0.731	99.5
Totals		3.009	528.16

Observation: Permit Condition IV.A.14., IV.A.15., IV.A.16.: A site inspection was performed on Swenson Park located at Circle Lane and Circle Drive, no problems were noted. Appropriate signs were posted where reuse takes place.

Swenson Park – sign magnified 200%, purple hydrant present.

Close-up of sign language

11. BIOSOLIDS/SLUDGE: In Compliance

Observation: Permit Condition II.22.: Biosolids generated at this facility are hauled by R & E Farms and land-applied in Alabama. Biosolids hauling records were complete, onsite and available for review during this inspection. This facility hauls twice a week by Green South Solutions, LLC for land application in Alabama. On June 9, 2014 3.98 dry tons were hauled by Green South Solutions, LLC for land application in Alabama.

Additional Comments: The biosolids hauling record form needs to be updated to indicate the new hauler Green South Solutions, LLC.

Observation: At the time of the inspection the facility's centrifuge was in operation.

Facility centrifuge in operation

Additional Comments: In accordance with the permit, prior to application of biosolids to a new, modified, or expanded biosolids application site, the permittee must notify the Department within 24 hours that the site is being used for biosolids land application. Please contact Bill Evans, Domestic Wastewater Permitting Engineer, at (850) 595-0584 or Bill.Evans@dep.state.fl.us.

Observation: The facility's 2013 Treatment Facility Biosolids Annual Summary was submitted to the Department on February 11, 2014. The facility did not apply any biosolids in the State of Florida in 2013. A total of 300.59 dry tons of biosolids were land applied in the State of Alabama by R & E Farms to Alaflo Farms.

Observation: A records review for the 4th Quarter 2013 biosolids monitoring events indicated that information and data on chain of custody sheets, laboratory reports, DMRs and other records were consistent.

Observation: Permit Condition II.14.: Biosolids from this facility are monitored for metals, nutrients, and fecal coliform bacteria by Pace Analytical and Future Labs for fecal coliform bacteria on a quarterly basis. A review of the quarterly biosolids DMRs for the period from the 3rd Quarter 2013 to the 1st Quarter 2014 indicated no violations of biosolids quality requirements or permit limits.

12. GROUNDWATER: In Compliance

Observation: Permit Conditions III.9. & III.10.: A review of GMRs for the period from the 3rd Quarter 2013 to the 1st Quarter 2014 indicated no violations of groundwater quality requirements or permit limits.

13. SANITARY SEWER OVERFLOW (SSO) SURVEY: Not Evaluated

Additional Comments: Sanitary sewer overflow regulations only apply to domestic wastewater facilities. All industrial or domestic facilities however must report any unauthorized releases of wastewater (spills) to the Department. This requirement is applicable to all facilities with a discharge. If a spill is less than 1,000 gallons, and is not expected to reach surface waters, the report may be made to the District Office at (850) 595-0659 or (850) 595-0673, or to the State Watch Office (SWO) at (800) 320-0519. If the spill is 1,000 gallons or more, and/or if the spill (of any size) reaches surface waters, the report must be made to the SWO. If there is a question whether or not a spill has reached (or will reach) surface waters, the facility should err on the side of safety and report the spill to the SWO.

14. OTHER: Not Applicable

City of Gulf Breeze

TO: Edwin A. Eddy, City Manager

FROM: Thomas E. Lambert, Assistant Director of Public Services

DATE: October 10, 2014

RE: Engineering Report

Below are the status of SSRUS engineering and in-house construction projects.

Description	Cost	Status
GENERAL		
Highway 98 Resurfacing	$88,273.50	Cost for utility relocation because of US 98 resurfacing, so far very little of this money has been needed. One additional conflict was found, but existing funds will cover the cost.
Meter Replacement	$4,200,000	Project is 82% complete
Santa Rosa Park Sewer		Complete, will update periodically
Ranchette Sewer Survey		Will conduct a survey of the residents to determine desire for sewer
Surplus Effluent Property Study		Complete, will update periodically
WATER SYSTEM		
Water Main Replacement 2012	$70,000.00	Snag on insurance requirement for the engineering firm
Water Main Replacement 2013	$80,000.00	
Water Plant Modifications	$12,000.00	
Water Crew Equipment	$21,500.00	
SEWER COLLECTION SYSTEM		
Gulf Isles Lift Station	$150,000.00	2 Year project (FY13 $70k, FY14 $65K)
Sewer Camera	$76,000.00	This agenda
Sewer Portable Pump	$28,000.00	
WASTEWATER TREATMENT		
Contact Basin Rehabilitation	$181,000.00	Project complete
Rotating Screen Rehabilitation	$19,625.00	Project complete
Tractor (Substitute)	$24,000.00	Complete
Aerobic Digester Enhancements	$80,000.00	
Master LS Pump Rehab	$17,000.00	
Bergren Road Force Main	$112,000.00	Complete

RECLAIMED IRRIGATION SYSTEM

CUP Irrigation Permitting	$19,000.00	Complete - The City given a 10 year permit
Reclaimed Pressure Study		Still in Process. We have also made significant changes to golf course operation. We continue to evaluate the system performance
ERS 4 Reclaimed Main Repair	$13,075.00	Complete
Reclaimed Tank Grant -NWFWMD	$690,000.00	Grant Agreement signed

FY 2012 Budgeted Capital
FY 2013 Budgeted Capital
FY 2014 Budgeted Capital
Detailed information attached

City of Gulf Breeze

TO: **Edwin A. Eddy, City Manager**

FROM: **Thomas E. Lambert, Assistant Director of Public Services**

DATE: **October 10, 2014**

RE: **Pelican Bay Subdivision – Developer Request.**

The developer for the Pelican Bay subdivision has submitted a request for assistance with the cost of the installation of the offsite force main. The total cost for the offsite forcemain is estimated at $61,570. The developer is requesting the utility fund $26,500 of this cost through tap fee credits. The sewer tap fees generated by this project will be $218,400 from 42 lots. By county ordinance, the utility will be required to pay for a portion of the forcemain if the forcemain is longer than a quarter mile, which is the case for this force main..

Staff analysis indicates there are approximately 60 acres that could be served by an extension of this forcemain.

RECOMMENDATION: SSRUS Board Recommend to City Council authorize credits against the tap fees for the Pelican Bay development in the amount of $26,500 for reimbursement of offsite forcemain costs.

(850) 934-5100 • (850) 934-5114
P.O. BOX 640 • 1070 SHORELINE DRIVE • GULF BREEZE, FLORIDA 32562-0640

October 4, 2014

From: Pelican Bay, LLC

To: City Of Gulf Breeze Sewer Utilities

Board Members:

Pelican Bay Developers, LLC is requesting to work in conjunction with the City of Gulf Breeze to bring sewer from Tiger Point subdivision on Calcutta Road to Red Fish Point Road north of Highway 98 which is currently un-serviced. An FDOT access point is the shortest distance between the two points, the least expensive to construct and the least invasive to the Tiger Point subdivision and its residence.

There are an undetermined number of existing opportunities for Gulf Breeze residents to utilize the force main north of HWY 98. Pelican Bay, LLC has and continues to perform a feasibility study on acquiring and developing the 64+- acres adjacent to Pelican Bay that would increase sewer services on Red Fish Road by at least 90.

Keeping with the cities cooperation to work with developers we propose to install the first 1320' of force main at a cost of $35,068.75 and we request a credit of $26,501.25 to bore under HWY 98 and tie into the manhole on Calcutta.

Sincerely,

G. Kevin Dunnam

Member Pelican Bay, LLC

Gulf Breeze

JST

TO : EDWIN A. EDDY, CITY MANAGER

FROM : VERNON L. PRATHER, DIRECTOR OF PUBLIC SERVICES V.P.

DATE : OCTOBER 10, 2014

RE : SEWER CAMERA PURCHASE

City Staff advertised for bid for purchase of replacement Camera System on August 7, 2014 & received 2 bids on August 22, 2014 which is listed below.

Camera system replacement

Dealer:	Manufacturer	price
Samson Equip.	Envirosight Roover X Camera System	$94,402.90
CUES	CUES K2 Series	$79,800.00

Staff reviewed both bids and determined that the low bidder CUES K2 Series for $79,800 did not meet technical specifications. Cues does not offer an internal pressure sensor that is water tight. Water intrusion will cause damage that will not be covered under warranty. The cable reel assembly has auto pay out but does not include a reverse selection. The unit has to be winched, which causes damages to the cable. The Cues system is also dedicated to their Granite software package to operate. Cues was notified that they did not meet specifications & no appeal was made on their behalf.

Recommendation: SSRUS Board recommend that the City Council authorize the purchase of one (1) Envirosight Roover X Camera System from Samson Equipment at a cost of $94,402.90.

BID TABULATION SHEET

August 22 2014

Closed Circuit Television Camera Package

Company	BASE BID
CUES 3600 Rio Vista Avenue Orlando, FL 32805	$79,800.00
Sansom Equipment Co 7760 Highland Ave North Mobile, AL 36608	$94,402.90

QUOTE

QUOTE #	201400602
DATE	8/18/2014

City of Gulf Breeze

TO John Trypus
1108 Coronado Drive
Gulf Breeze, Florida, 32562

Jeff Bodiford
(251) 298-9398
jeffb@secequip.com

QUOTE STATUS	FREIGHT	PAYMENT TERMS	DELIVERY IN DAYS
Quote Bid	Included	Net	30 - 60 Days

1	EnviroSight Rovver X Sewer Inspection Camera - Basic Truck Package - Includes: RCX90 Camera Head / Rovver X130 Camera Crawler / VC200 Operator Control Pendant / RAX300 Auto Motorized Cable Reel w 1000 ft Transmission Cable.
1	Remote Lift Accessory - Raises / Lowers Camera Head on Crawler Body
1	Rear View Camera Option with Auxiliary LED Lights
1	VeriSight Pro 200 Push Camera with Digital Viewer
2	Blue Spike Wheels for 8" Pipe

TOTAL	$94,402.90

Does Not Include any Federal, State, or Local Taxes

To accept this quotation, sign here and return: _____

Thank You For Your Business!

LOCATIONS:

1225 Vanderbilt Road
Birmingham, AL 35326
Phone: 205-324-3104
Fax: 205-324-2679

7760 Highland Ave. North
Mobile, AL 36608
Phone: 251-631-3766
Fax: 251-631-3768

Find us on: facebook

REQUEST FOR PROPOSALS

INVITATION TO BID

CLOSED CIRCUIT TELEVISION CAMERA PACKAGE

Sealed Bids for the purchase of a closed circuit television (CCTV) camera package will be received no later than 2:00 pm August 22, 2014, by the City Clerk of Gulf Breeze located in City Hall at 1070 Shoreline Drive, Gulf Breeze, Florida 32561. Any Bids received after 2:00 pm local time will be returned unopened. Bid proposals must be clearly marked on the envelope: Closed Circuit Television Camera Package.

The Bid Specification Packet may be viewed at the office of the City Clerk between the hours of 9:00 am and 1:00 pm Monday through Friday starting August 7, 2014, at no charge, or at this Link. A copy can be received at the City Clerk's office by providing a non-refundable fee of $15.00.

The City of Gulf Breeze reserves the right to waive informalities in any bid; reject any or all proposals, in whole or in part; re-bid a project, in whole or in part; and to accept a proposal that in its judgment is the lowest and best bid of a responsible bidder. The City of Gulf Breeze does not discriminate on the basis of race, color, national origin, sex, creed/religion, age, marital status, disability and handicapped status, veteran status or any other legally protected status in employment or provision of service.

Questions concerning this bid should be directed to: John Trypus – Jtrypus@gulfbreezefl.gov or (850) 934-4056.

Bid Specification for Long-Range CCTV Pipe Inspection Crawler

Bid Specification for Long-Range CCTV Pipe Inspection Crawler

1. System Basics

Complete inspection system shall have:

1. Only four basic components:
    a. Automatic cable drum with cable
    b. Operator pendant with viewing, digital recording and system controls
    c. Crawler
    d. Camera
2. Open-standard Can Bus communications protocol
3. Ability to connect to a network via network cable port for remote firmware upgrades and/or diagnostic services.
4. Electrical requirement no greater than 5 A at 115 Vac, 60 Hz or 2.5 A at 230 Vac, 50 Hz (RAX 300), or 4 A at 115 Vac, 60 Hz or 2 A at 230 Vac, 50 Hz (RMX 300).

2. Control Unit / Operator Pendant

The system control pendant shall have:

1. 8" (21cm) minimum color touch-screen with 800 x 600 display resolution for view/recording video and accessing control and configuration functions.
2. Power on/off switch.
3. Dual joysticks for camera and crawler functions.
4. Video signal output.

5. Right multifunction joystick to control crawler's forward/reverse travel, left/right turning and speed.
6. Left multifunction joystick to control camera's pan/tilt, zoom and home functions.
7. Controls for manual and automatic focus of camera.
8. Ability to display crawler pressure, temperature, sonde status, pitch (inclination) and roll.
9. Controls for adjusting illumination intensity.
10. Several cables for portable and truck-mount setup.
11. Ability to record digital video.
12. Ability to generate text on video.
13. Ability to capture digital stills.
14. Ability to correlate still images and distance information with observations, all of which can be output in a single report package.
15. Ability to output collected section data to a file which will automatically populate within existing WinCan software database.
16. Ability to create a printed report with images, observation data, schematics of the entire section, asset information, and operator details.
17. Ability to generate an onscreen graphic showing how the camera is oriented in terms of pan and tilt.
18. Output for s-video, USB and network connector.
19. On/off control of digital zoom function.
20. On/off control of auto shutter speed.
21. Ability to toggle between front-view camera, integral rearview camera, and accessory rear view camera.
22. Button to activate macro for automatically viewing laterals on the left.

23. Button to activate macro for automatically viewing laterals on the right.
24. Button to activate macro for automatically performing a circumferential scan of a pipe joint.
25. The ability to operate larger and smaller crawlers with no need for additional control unit or cable upgrades.
26. The ability to run off of a CAN-bus control protocol to allow for future upgrades to all components.
27. Total weight of no more than 6 lbs.

3. Pan/Tilt Color Zoom Camera

The system camera shall have:

1. 10X optical zoom with 12X digital zoom multiplier for a total zoom of 120X.
2. Ability to produce a high-quality color video image with a readable resolution of no less than 420 HTV lines.
3. Pan and tilt motors with no exposed gears or wires.
4. Ability to pan a full 360 degrees and tilt ±135 degrees for full viewing of laterals and joints.
5. Ability to view behind crawler to inspect upstream lateral rubber seal on gravity-flow PVC pipes.
6. Solid-state circuitry designed to withstand shock and vibration while being pushed, pulled or propelled through the pipe.
7. Ability to connect to crawler body via a 1.5" long, 5/8" diameter stainless-steel keyed connection plug with 10-pin internal female connection port. Connection must be waterproof.
8. Front housing made of aluminum and stainless steel, with windshield made of impact-resistant, distortion-free material.

9. Housing that is fully sealed and waterproof per IP68 to withstand external pressure up to 1 bar without damage or leaking.
10. Ability to run off 12-15volt DC solid-state power source.
11. Encoders to measure pan and tilt position, allowing camera to be controlled using macros stored in the operator pendant.
12. Ability to attach to the front of the crawler by a simple turn of a slotted locking mechanism atop the crawler that drives 4 stainless bearings into the rotate shaft of the camera, all while maintaining a 1-bar waterproof seal.
13. Illumination provided by a minimum of 40 LEDs that deliver a 13,000-lux reading at 1' and a 3-lux reading at 25'. Lighting must illuminate targets beyond 10'.
14. A valve for purge and pressurization of camera-body. (Pressurization helps prevent ingress of water and helps prevent internal condensation and fogging.)
15. A total weight of no more than 2.7 lb.
16. A maximum size of 7" x 3" x 3" (lwh) in order to fit within a diameter of 3.5" (88mm).
17. Integral clutches to protect pan and tilt motors. *The system cable shall have*

1. 1000' of 6-wire continuous-length multi-conductor cable.
2. Kevlar reinforcement bestowing a minimum break strength of 1000 lbs.
3. Diameter of no more than 0.26".
4. Steel-armored jacket at crawler end to prevent cable damage during entry and around pipe bends.
5. Solid stainless steel screw on connector at crawler end that locks with two turns, and which engages a locking spring-loaded pin on the rear of the crawler to secure the cable and provide strain relief. Connections that require any tools or screws will be deemed unacceptable.
6. Crawler connection with keyway to prevent damage to electrical pins when mating with camera or crawler.

7. Ability to be re-terminated, sealed and strain-relieved using a 2-ton quick-dry epoxy. Procedure shall take no more than half an hour to complete. 13 wire solder repair and Scotch cast style units that require 6 hour cure times will be deemed unacceptable.
8. Compatibility with fully automatic cable reel, manual cable reel, and for easy management.
9. Ability to connect directly to the following without any modification:

    a. 4" minimum pipe ID crawler with modification

4. Motorized Cable Drum

The system cable shall have:

1. Capacity for the systems 1000' cable.
2. A hub equipped with a continuous-contact slip-ring assembly to allow the cable to be dispensed and retrieved while the camera and tractors are operational.
3. An environmentally sealed slip ring whose contacts shall be of an alloy of gold.
4. A motorized system with sensors that monitor cable tension in order to coordinate cable feed/retrieval with movement of the crawler.
5. Ability to perform without operator intervention while crawler is in use.

1. Ability to operate in both automatic and manual modes.
2. Speed and torque controls to adjust for different pipe conditions and user preferences.
3. Weight of no more than 127 lb (including 1000' of cable).
4. Mounting plate to hold reel stationary, but which allows easy, tool-less removal for maintenance, shipping or portable use.

5. Remote pendant granting control of crawler and reel while away from the primary control unit.
6. Ability to operate manually, with direct control of speed, direction and torque.
7. Large pulley arm option for extending the cable drop point 3' from the cable reel.
8. BNC video output for local video connection.
9. Size of no larger than 21 x 14.5 x 24.5" (hwd) with standard cable roll bar that extends 15" from the front of the reel.
10. Power/torque controls for winching back crawler in optional free-wheel mode.
11. Ability to run macros—subroutines in which the reel, crawler and camera function are automatically coordinated to accomplish a specific task without operator intervention.
12. Optional cable protection accessories, including:
    a. Upper cable guide that uses Delrin (or similar) roller mounted to lightweight aluminum frame to protect cable from abrasion during operation, and to limit operator strain during setup.
    b. Lower roller assembly that uses Delrin (or similar) roller mounted to lightweight aluminum frame to protect cable from abrasion during operation, and to limit operator strain during setup. Designs requiring use of interlocking poles shall be deemed unacceptable.

5. Steerable Motorized Crawler

The system crawler shall have:

1. 6-wheel drive (3 wheels per side) to generate traction necessary to crawl 1000' in wet and slippery pipes.
2. The tractor shall have proportional left/right steering, forward, reverse, capability via a joystick and other controls via the operator pendant.
3. Maximum size of 12.2 x 4.3 x 3.5" (lwh), allowing proper clearance in 6" and lined pipes.

4. A minimum of two 30-watt EC drive motors.

5. The option for a remotely operated lift that can raise the camera a minimum of 7" from its lowest position.
6. Full sensor package for measurement of pitch and roll, and transmission of sonde signal.
7. Integral rearview color camera with LED lighting.

8. Ability to remotely toggle between rear- and forward-viewing cameras using the operator control pendant.
9. Slotted locking mechanism, the simple turn of which drives 3 stainless bearings into the rotate shaft of the camera for secure, easy attachment with 1-bar waterproof rating.
10. Keyway on camera rotation shaft to ensure damage-free mating of electrical pins between crawler and camera.
11. Rear receptacle that allows cable attachment with 2 turns of the stainless-steel cable connector's outer barrel.
12. A spring-loaded on the rear receptacle to lock the stainless-steel cable connector's outer barrel, ensuring a secure connection and delivering pull strength beyond the 600-lb-rated break strength of the cable.
13. Minimum weight of 16.5 lb to assure performance in soft sediment and debris.

14. Length of no more than 12.2" (18" with camera and optional lift installed) for easy navigation through 90-degree inverts without rolling.
15. Single-piece machined aluminum design with single top-plate access control boards, single bottom-plate access to motors, and dual side-plate access gears, ensuring maximum protection against leaks caused by bending stress. Tractor chasses of bronze, brass or other soft metals shall be deemed unacceptable.
16. Tapered wheels that conform to pipe sidewall.

17. Machined keyway on all 6 axles to ensure positive drive and facilitate quick wheel change-out. Spacers and wheels shall attach with a single screw; plates and spacer-bars shall be deemed unacceptable.

18. CAN-bus control architecture allowing for precision control, diagnostic monitoring and future upgradeability.
19. Three (3) wheel sets and spacers for inspection of pipes 6-24".
20. Ability to fit in 8" pipe with auxiliary lighting attached.
21. A tilting rear cable connector that points vertically to protect cable during deployment into manhole, but which tilts to horizontal position during operation.
22. Ability to fit in 8" pipe with auxiliary lighting attached.
23. A tilting rear cable connector that points vertically to protect cable during deployment into manhole, but which tilts to horizontal position during operation.
24. Strong stainless steel locking mechanism to augment the strain relief internal to the cable.
25. Stainless connectors that carry a lifetime warranty.
26. 512 Hz or 33 kHz integral sonde to facilitate locating crawler.
27. Auxiliary lighting that has:
    a. Twin focused super-bright LED lamps (2-watt each) for inspecting large pipes.
    b. Ability to mount to crawler with instant-contact slide-connector positioned at top rear of crawler or optional camera lift. Any exposed wiring shall be deemed unacceptable.
    c. Waterproof design (when mounted) with ability to withstand 1 bar external pressure.
    d. Integral rear-viewing color camera.
28. Remote operated camera lift that has:
    a. Ability to raise camera 7".
    b. Ability to attach to crawler with only two (2) screws.
    c. Internal pressurization to protect against water ingress.

d. Accessory port on top for attachment of auxiliary lighting, rearview camera and future sensors.

e. Can be remotely controlled using operator pendant.

f. Pressurized struts and motors to ensure reliable, precise control in a compact form factor.

g. Ability to make direct, waterproof connection to front camera port for power, video and control.

h. Ability to accept pan/tilt color zoom camera without compromising any of the camera's functionality.

Specification: Push camera with color self-leveling camera and digital video storage..

1. **Cart cable reel assembly** (standard 200')

a. Cable to be made of fiberglass epoxy rod with Kevlar strength layer. Abrasion- and water-resistant high-impact copolymer outer sheath to be rated for 4000-lb nominal breaking strain.

b. Interface between cable termination and spring assembly is to be sealed with industrial-strength epoxy. Dry fit connection will be deemed unacceptable.

c. Cable diameter shall be 12mm.

d. Standard cart assembly shall be made of powder coated steel.

e. Interconnect lead from reel to control module shall be 3' long with optional 30' lead if required.

f. Complete cable reel assembly shall weigh no more that 45 lbs.

g. Integral transmitting coil shall have the ability to transmit three frequencies that are selectable from the control module. 512khz, 33khz, 640khz.

1. **Self-leveling color camera head** (standard for standard/large systems)

h. Camera head shall be waterproof to 6 bar.

i. Camera head diameter not to exceed 1.62 in diameter.

a. Camera shall be removable from cable reel with a single purpose-built spanner.

b. Camera shall have resolution of 420 HTVL and sensitivity of 1.0 lux.

c. Camera view shall be illuminated by 27 LEDs.

d. 3 skids for centering in 4, 6, 8" diameter pipe shall be supplied as standard.

e. Camera housing shall be made of stainless steel.

f. Camera shall be removable from cable reel with a single purpose-built spanner.

2. Inspection Viewer/Recorder with Text Overlay and WinCan-compatible Defect Reporting

a. Video must be displayed on an 8" TFT LCD with 800 x 600 pixel resolution.

b. Video must be recorded to internal memory of 16GB, expandable to 128GB.

c. Video must be recorded in MPEG-4 format for maximum compatibility.

d. System must have a 3X digital zoom function that can be used on both live and recorded video.

e. System must allow capture of still images from live or recorded video.

f. Still images must be captured in JPEG format for maximum compatibility.

g. System firmware must present thumbnail gallery for easy navigation of stored video and still images.

h. System must have internal 16-page color text writer to allow annotation of captured video.

i. System must have integral QWERTY keyboard with function and navigation keys for entry of data into text writer and defect reporting.

j. System must have user-configurable drop-down menu system for optimum ease-of-use.

k. System must accept encoder input for onscreen display of distance in either feet or meters.

l. System must store and export defect records (along with corresponding video and images) directly to Win Cam software.

m. Onboard memory must be durable solid-state RAM (not fragile hard disk drive).

n. System must have USB 2.0 memory stick port for transfer of video, images and Win Cam-compatible inspection observations.

o. System must have SD/SDHC card slot for transfer of video, images and Win Cam-compatible inspection observations.

p. System must have internal Li-ion battery allowing 6 hours of continuous operation.

q. Battery must be rechargeable via both mains (110-240 Vac) and vehicle power (12 Vdc).

r. System must be housed in a weatherproof composite case with IP65 environmental rating.

Proposed

_____

_____

_____

City of Gulf Breeze

TO: **Edwin A. Eddy, City Manager**

FROM: **Thomas E. Lambert, Assistant Director of Public Services**

DATE: **October 10, 2014**

RE: **Technology Fee**

As the meter project is nearing completion, which is expected in December, the utility agreed to implement a technology fee to recover the cost of investing in the more advanced radio read system. The fee will generate money along with the revenue increase to pay for the meter replacements and the advanced technology. The original concept was to institute a $1 dollar fee per month per water meter lasting five years. If the fee is not instituted, the funds would be taken from the general operations.

Staff would recommend that a $2 fee per water meter be instituted. The additional revenue would be separate from the funds dedicated to the meter replacement, and could be placed towards other technical enhancements that would create efficiency and save money. One such project might be the installation of monitoring systems for all the lift stations that would use the meter reading system as the backbone for communication.

The fee would generate approximately $105,600 annually with half being used for the debt service offset and the remainder set aside for technology enhancements.

RECOMMENDATION: SSRUS Board Recommend to City Council that the $2 per meter technology fee be instituted for a period of five years subject to advertising and public hearing as required.

(850) 934-5100 • (850) 934-5114
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City of Gulf Breeze

TO: **Edwin A. Eddy, City Manager**

FROM: **Thomas E. Lambert, Assistant Director of Public Services**

DATE: **October 10, 2014**

RE: **Gulf Power Access**

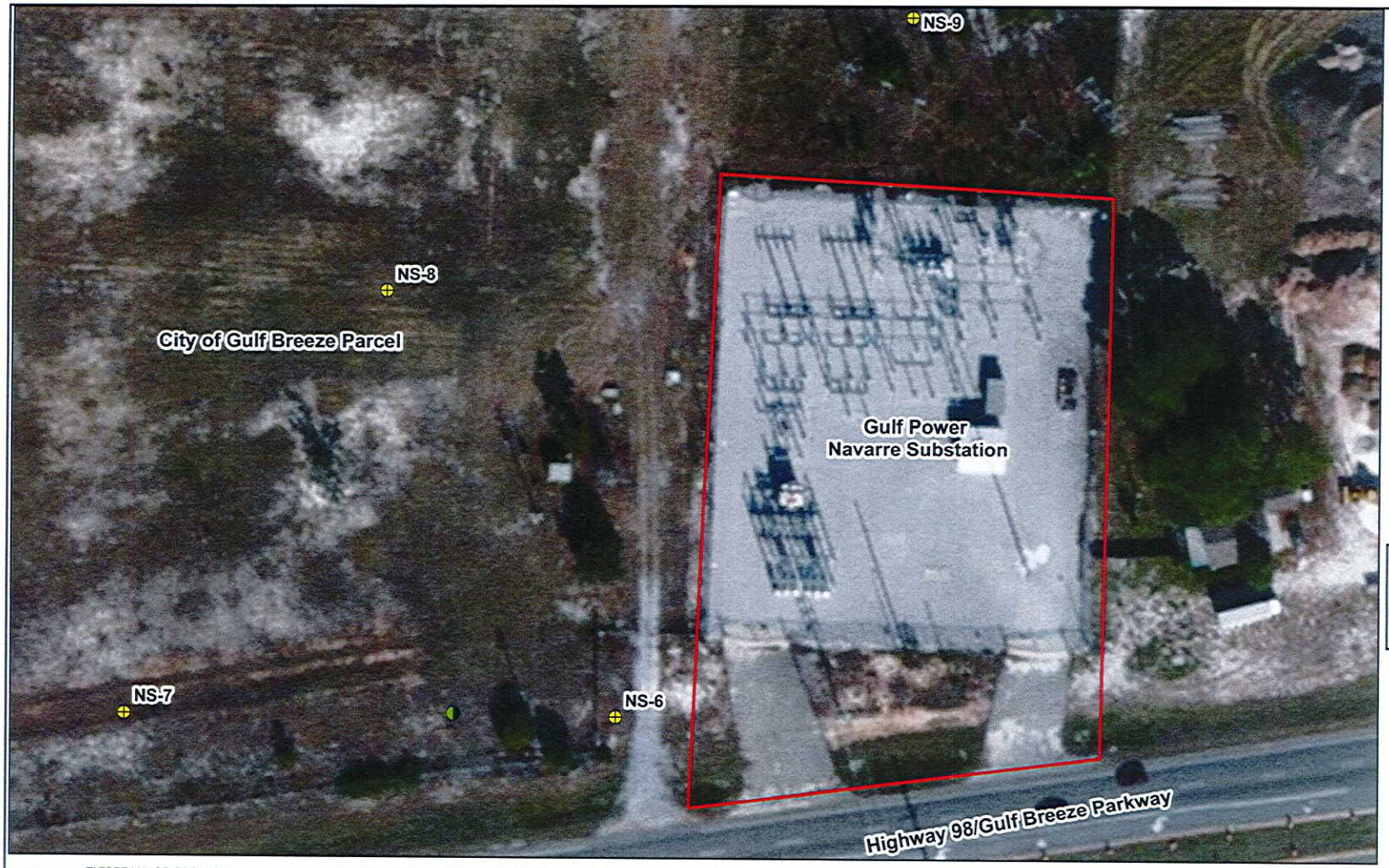
Gulf Power has approached the utility about an access agreement to install monitoring wells to comply with a consent order with the Department of Environmental Protection. The Gulf Power substation is adjacent to the utility's sprayfield site ERS2, and is in the potential zone of influence for any groundwater contamination. A drawing of the area is attached showing the location of the two properties. Gulf Power will install monitoring wells as shown in the attached drawing and periodically sample them. This will not at all affect the function of the sprayfield.

The agreement offers the utility several protections and indemnifications. The utility can terminate the agreement with a 30 day notice if the City should decide to sell the property. The city attorney has reviewed the document and Gulf Power has incorporated all of his suggestions.

RECOMMENDATION: SSRUS Board Recommend to City Council approval of the Access Agreement with Gulf Power.

(850) 934-5100 • (850) 934-5114
P.O. BOX 640 • 1070 SHORELINE DRIVE • GULF BREEZE, FLORIDA 32562-0640

FAWN RIDGE DR
MAVERICK LN
EL PASO TR
HONDO TR
Midway
NATURES WAY
COWEN RD
ERS 2 SPRAYFIELD
PECOS PASS
MW ZONE
GULF POWER
SUBSTATION
GULF BREEZE PKWY
GULF BREEZE PKWY



Legend

- Proposed Monitoring Well
- Santa Rosa Spray Field Well
- Navarre Substation Property Boundary

N

T:\ESEE MAJOR PROJECTS\PROJECTS\GULF SUBSTATIONS\Gulf Priority II\Baker\ES2186_Priority A Site Assessments\GIS
LP 07/07/14

0 25 50 100 150 200 Feet

1 inch = 50 feet

Southern Company Services, Inc.
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Figure 1

NAVARRE SUBSTATION
PROPOSED MONITORING WELL LOCATIONS

Southern Company Generation
Earth Science and Environmental Engineering

FOR

Gulf Power Company

Drawing Number ES1950S10

DRAFT 8-27-14

ACCESS AGREEMENT

This Access Agreement (together with all exhibits, hereto, collectively, "**the Agreement**") effective on the date when signed by the last party ("**Effective Date**") is between the City of Gulf Breeze, Florida ("**the City**") and Gulf Power Company ("**Gulf**").

WHEREAS, City owns the property described on attached **Exhibit A** (the "**City Site**"); and

WHEREAS, Gulf is the operator of the Gulf Power [Insert] Substation (the "**Gulf Site**"), which is located adjacent to City Site; and

WHEREAS, the Florida Department of Environmental Protection ("**FDEP**") requires Gulf, pursuant to Consent Order Number OGC #88-1471A to conduct soil and groundwater assessments (collectively, the "**Work**") at the Gulf Site in accordance with the work plan attached hereto as **Exhibit B** (the "**Work Plan**"); and

WHEREAS, Gulf desires to enter upon City Site to complete the Work and City has agreed to allow Gulf to enter upon the City Site for such purpose in accordance with the terms and conditions of this Agreement.

AGREEMENT:

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, City and Gulf hereby agree as follows:

1. **Consent to Access**. City hereby grants Gulf authorization to enter those portions of the City Site necessary for, and solely for the purposes of, conducting the Work described in the Work Plan. All costs associated with the Work shall be borne solely by Gulf. This Agreement does not convey an interest in real property to Gulf. The right of access granted to Gulf hereunder is granted without representation or warranty by City regarding the condition of the City Site, or the title or rights of occupancy to the City Site, all of which representations and warranties are expressly disclaimed. Entry upon the City Site by Gulf or any Gulf Representative (as hereinafter defined) shall be at Gulf's sole risk.

2. **Procedures**. Gulf shall conduct all Work strictly in accordance with the following procedures:

(a) City shall permit access to the City Site by Gulf and Gulf's representatives, including Gulf's engineers, contractors and environmental consultants ("**Gulf Representatives**"), solely for the purpose of conducting the Work.

(b) Gulf and Gulf Representatives shall notify City of its intent to enter the City Site at least forty-eight (48) hours prior to the intended date of entry. Neither Gulf nor any Gulf Representative shall enter the City Site until City has approved the entry request. All notifications of planned entry upon the City Site shall be directed to [insert], at the following telephone number: [insert].

(c) The Work shall be performed at reasonable times during normal business hours and after notification to City as called for by Paragraph 2(b) hereof.

(d) A representative of City shall have the right, but not the obligation, to be present during any Work on the City Site.

(e) Neither Gulf nor any Gulf Representative shall interfere unreasonably with the use, occupancy or enjoyment rights of any occupants of the City Site. Neither Gulf nor any Gulf Representative shall injure or otherwise cause bodily harm to City or its guests, agents, invitees, contractors or employees. No work shall be undertaken by Gulf or Gulf Representatives that could reasonably be expected to damage buildings, improvements, equipment or personal property on the City Site.

(f) Gulf shall comply with all federal, state and local laws, rules and regulations which might in any way relate to the Work.

(g) At all times, Gulf shall be responsible for returning the City Site to substantially the condition existing prior to any entry by Gulf or any Gulf Representative except for any permanent monitoring wells that Gulf installs in accordance with the Work Plan. Gulf or Gulf Representatives shall be responsible for the disposal of any wastes generated in connection with the Work under Gulf's or Gulf Representatives' hazardous waste generator or other identification number that Gulf obtains or possesses with respect to such wastes, if so required by applicable law.

(h) Gulf shall reimburse the City for any expenses the City may incur, in any manner, relating to or arising in connection with the Agreement or any breach thereof.

3. **Indemnification**. Gulf shall release, indemnify, defend and hold City harmless from any and all losses, costs, liens, claims, causes of action, liability, damages, and expenses (including, without limitation, court costs and reasonable attorneys' fees) (collectively, "**Losses**") incurred in connection with or arising in any way from (a) Gulf's or any Gulf Representatives'

performance of the Work conducted by Gulf and/or any Gulf Representative, (b) the presence of Gulf or any Gulf Representative on the City Site, or the exercise of Gulf's access rights under this Agreement, (c) any breach by Gulf and/or any Gulf Representative of the terms hereof, and (d) any other manner relating to or arising in connection with Gulf's use of the City Site, in all of the above instances. This indemnity provision shall survive termination or expiration of this Agreement. If any proceeding is filed for which indemnity is required hereunder, Gulf agrees, upon request therefor, to defend the indemnified party in such proceeding at its sole cost utilizing counsel reasonably satisfactory to the indemnified party.

1. **Investigation Documents**. At City's request, Gulf agrees to promptly deliver to City copies of any and all reports, studies, environmental audits, environmental assessments, or other documents or information prepared by the Gulf Representative engaged to perform the Work, at no cost or expense to City.

2. **Notices**. For purposes of notice, the addresses of the parties shall be as follows:

If to City: [Insert]

If to Gulf: _____
_____
_____
_____
_____

3. **Confidentiality.** Unless otherwise required by applicable law, Gulf shall treat as confidential all matters concerning the City Site that are revealed in connection with the Work, including but not limited to any analyses, compilations, studies, documents, reports or data prepared or generated in connection with the Work. With the exception of communications to the FDEP as set forth in the Work Plan, or as otherwise required by applicable law, Gulf shall not disclose any City information to any third party without the prior written consent of City.

4. **Entire Agreement**. This Agreement is the entire agreement between City and Gulf concerning the Work, and no modification hereof or subsequent agreement relative to the subject matter hereof shall be binding on either party unless reduced to writing and signed by the party to be bound.

5. **Multiple Counterparts**. To facilitate execution, this Agreement may be executed in as many counterparts as may be convenient or required. It shall not be necessary that the signature of, or on behalf of, each party, or that the signature of all persons required to bind any party, appear on each counterpart. All counterparts shall collectively constitute a single instrument. It shall not be necessary in making proof of this instrument to produce or account for more than a single counterpart containing the respective signatures of, or on behalf of,

each of the parties hereto. A signature page to any counterpart may be detached from such counterpart without impairing the legal effect of the signatures thereon and thereafter attached to another counterpart identical thereto except having attached to it additional signature pages.

6. **Invalid Provisions**. If any provision of this Agreement is held to be illegal, invalid or unenforceable under present or future laws, such provision shall be fully severable; this Agreement shall be construed and enforced as if such illegal, invalid or unenforceable provision had never comprised a part of this Agreement; and the remaining provisions of this Agreement shall remain in full force and effect and shall not be affected by the illegal, invalid or unenforceable provision or by its severance from this Agreement.

10. **Not to Be Recorded**, This Agreement shall not be recorded in the Public Records, nor shall any notice of its existence be recorded.

11. **Termination**. The City may terminate this Agreement at any time with or without cause upon providing written notice to Gulf; whereupon Gulf must, within thirty (30) days of such notice, remove all monitoring wells, equipment, etc. and restore the City Site to the condition that existed before the commencement of Work.

12. **Governing Law**. This Agreement shall be construed and enforced in accordance with the laws of the State of Florida.

[THE REMAINDER OF THIS PAGE IS INTENTIONALLY LEFT BLANK]

IN WITNESS WHEREOF, the parties have executed this Agreement effective as of the Effective Date.

CITY:

CITY OF GULF BREEZE, FLORIDA

By:

Name:

Title:

Date: _____

GULF:

GULF POWER COMPANY

By:

Name:

Title:

Date: _____

EXHIBIT A

City Site

[Insert property description]

EXHIBIT B
Work Plan

[See attached]

City of Gulf Breeze

TO: **Edwin A. Eddy, City Manager**

FROM: **Thomas E. Lambert, Assistant Director of Public Services**

DATE: **October 10, 2014**

RE: **Golf Course/WWTF Entrance**

When the City purchased the Tiger Point Golf Course, the entrance to the maintenance yard was slated for resurfacing. Since the WWTF shares this entrance, it was determined that the cost should be split between the two enterprise funds. The pavement is in such a degraded state that major base work must also be complete. The engineer's estimate of work was $151,000.

The bid was advertised and bids were received on September 19, with the low bid being $146,368.45 by J. Miller Construction, a contractor located in Pensacola. The cost will be allocated 50% to SSRUS, and staff recommends payment from tap fee reserves.

RECOMMENDATION: SSRUS Board Recommend to City Council the approval of the contract with J. Miller Construction for the golf course entrance road repaving project.

(850) 934-5100 • (850) 934-5114
P.O. BOX 640 • 1070 SHORELINE DRIVE • GULF BREEZE, FLORIDA 32562-0640

CITY OF GULF BREEZE

Tiger Point Wastewater Treatment Plant

Interoffice Memorandum

DATE: 9/24/14

TO: Vernon Prather; Thomas Lambert

FROM: Jason Randell, WWTP Lead Operator

RE: WWTP Paving Project: Contractor Recommendation

We received 3 qualified bids for the Tiger Point WWTF Paving Project as follows:

- J. Miller Construction $146,368.45
- Panhandle Grading & Paving, Inc. $155,065.54
- Roads, Inc. $181,430.49

Ken Horne & Associates provided an engineer's estimate for the project and that estimate is $151,355.37, which is comparable to the 2 lowest contractor bids. J. Miller Construction provided the most competitive price for the project and they have a good reputation for quality work and excellent customer service. I contacted three references which J. Miller Construction provided, and all three had very positive feedback regarding past projects.

Recommendation: City Council award the Tiger Point WWTF Paving Project contract to J. Miller Construction at a contract price of $146, 368.45.

Opinion of Probable Site Related Construction Cost
Kenneth Horne and Associates, Inc.

Project Name: MAPLEWOOD DRIVE - SEWER PLANT PAVING IMPROVEMEI Date: 4/7/2014
KH&A Project No. 2013-03 Basis of Estimate: Final
Estimator: CK

Item	Description	Quantity	Unit	Unit Price	Amount
BASE BID					
1	MOBILIZATION[1]	1	LS	$2,500.00	$2,500.00
2	EROSION CONTROL (Silt Fence)	515	LF	$1.54	$793.10
3	SAWCUT EX. ASPHALT	133	LF	$0.94	$125.02
4	REMOVE EX. ASPHALT[1]	2286	SY	$6.50	$14,859.00
5	12" STABILIZED SUBGRADE	2775	SY	$2.18	$6,049.50
6	8" GRADED AGGREGATE BASE[2]	2775	SY	$19.33	$53,640.75
7	3" FDOT SP 12.5 ASPHALT[2]	2652	SY	$24.00	$63,648.00
8	7" CONCRETE PAD[1]	78	SY	$80.00	$6,240.00
9	CONSTRUCTION LAYOUT[1]	1	LS	$1,000.00	$1,000.00
10	CONSTRUCTION TESTING[1]	1	LS	$1,500.00	$1,500.00
11	WORK ZONE TRAFFIC CONTROL[1]	1	LS	$1,000.00	$1,000.00
			TOTAL		**$151,355.37**

Note Unit Price from Roads Inc. Bid for Cordoba-Cadiz Street Overlay and Cehsapeake Drive Multi-Use Path Project unless noted with the following superscripts:

1 Item not in referenced Project, therefore Engineers Estimate

2 Item not in referenced Project but similar Item is, therefore Engineers Extrapolated Estimate

City of Gulf Breeze

DATE: October 8, 2014

TO: Edwin A. Eddy, City Manager

FROM: Vernon L. Prather, Director of Public Services

RE: Engineering Services for:

WWTP Minor Modification for DEP Permit
West Course Pump House Replacement

If the City Council elects to rebuild the west golf course, we need to secure engineering services in order to complete the following tasks:

- **WWTP Minor Permit Modification:** This task order is to obtain the necessary Department of Environmental Protection (D.E.P) permit modification in order to enlarge the existing storage pond located at the WWTP. Baskerville-Donovan has submitted a task order for $2,500 to obtain the necessary D.E.P. permits.

- **Tiger Point West Course Pump Station Replacement:** The existing pump station was built in 1986 and therefore is 28 years old. It has been anticipated that the pump station should be replaced due its age and critical importance for utility operations to apply water to the west course. Baskerville-Donovan has submitted a task order for $53,786 to design a new West Course Pump Station.

These projects were included in the original R.F.P. for design of the west golf course and therefore are covered by the provisions of the CCNA.

Should the City Council elect not to rebuild the west golf course, the task orders above are not necessary and will be null and void.

RECOMMENDATION: SSRUS Board recommends that the City Council authorize Baskerville-Donovan to complete the following task orders:

-	WWTP Minor Permit Modification	$ 2,500.00
-	Design New West Course Pump Station	$ 53,786.00

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WWW.CITYOFGULFBREEZE.COM

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions

449 West Main St.
Pensacola, Florida 32502
Phone: 850.438.9661
Fax: 850.433.6761

September 29, 2014

Vernon Prather, Director of Public Services
City of Gulf Breeze
1070 Shoreline Dr.
Gulf Breeze, Florida 32561

RE: South Santa Rosa WWTP Minor Modification
Expanded Reclaimed Water Pond
BDI Project Number 20410.23

Dear Mr. Prather,

In December 2012 the City of Gulf Breeze purchased the Tiger Point Country Club. As a part of that purchase, it was recognized that there would be room to expand the existing wastewater treatment plant and to secure ample reclaimed water storage for the projected area build-out. As a part of the expansion project associated with the west golf course at Tiger Point, an expansion to the existing reclaimed water pond is proposed to begin development of additional reclaimed water storage capacity. In a meeting with the Florida Department of Environmental Protection (FDEP) on September 26, 2014, it was confirmed that a minor modification permit application would be required for this expansion project.

BDI is pleased to submit to the City the following Scope of Work that will provide the minor modification application along with associated exhibits.

SECTION I: SUMMARY OF BASIC ENGINEERING SERVICES

An application for a minor modification to the wastewater treatment plant will be prepared and submitted in accordance with Chapter 62-620.325, FAC. The application package will include supporting exhibits and calculations. The submittal package will be coordinated with the permit regulator including responses to requests for additional information. These services do not include end of construction certification.

SECTION II: SCHEDULE

Upon receipt of written notice to proceed, BDI will complete the associated work and provide a draft submittal to the City for review within one week of said notice.

SECTION IV: METHOD OF COMPENSATION

Lump Sum	Preparation and submittal of Permit Application and exhibits	$1,500
Hourly	Requests for Additional Information (not-to-exceed)	$1,000
	Total	$2,500

BDI will perform the above services for a fee not to exceed **$2,500** without further authorization from the City.

BDI shall invoice the City monthly based on percent of completion. Please contact us if you have any questions. Otherwise, the City may accept this proposal for the identified services by executing below and returning an original to Baskerville-Donovan, Inc.

As always, we appreciate this opportunity to be of service.

Sincerely,

BASKERVILLE-DONOVAN, INC.

Richard W. Delp, CSI, CDT
Project Manager

ACCEPTED:

_____
Vernon Prather
Director of Public Services

Date: _____

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions

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Pensacola, Florida 32502
Phone: 850.438.9661
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September 22, 2014

Vernon Prather
Director of Public Service
City of Gulf Breeze
1070 Shoreline Drive
Gulf Breeze, FL 32561

Re: Tiger Point Golf Course West Course Pumphouse Replacement

Mr. Prather:

We are pleased to present you this proposal for professional services related to the Replacement of Tiger Point Golf Course West Course Pumphouse.

This proposal reflects our understanding of the project as developed through a site visit and subsequent discussions with City and golf course staff. We understand that the basis of design for the pump station sizing and electrical controls will be the irrigation needs provided by the Golf Course Design Team with additional capacity to supplement flows to the reclaimed water main serving the east course and the residential and commercial reclaimed users.

In regards to the site, in conjunction with the redesign of the west golf course, the existing reclaimed water storage pond at the plant is being enlarged. A location for the new pumphouse has been established at the northern reach of the pond expansion. This will provide circulation through the pond.

In order to develop the necessary design documents, obtain the necessary permits and perform the requested limited construction administration to support the described project, we offer the following scope of work:

Task 1 - Design Services: Following concurrence with City staff on the conceptual design, the project design will be advanced through 60%, 90% and 100% stages each accompanied by submittals for City Staff review. The 60% design will refine the conceptual geometry with development of the associated "C" and "M" sheets. The 60% submittal will include an updated cost estimate and a specification Table of Contents. Structural and Electrical input will be incorporated as it affects the "C" and "M" sheets. Advancement to 90% will incorporate City 60% comments and advance the design to essentially complete "C" and "M" sheets with "S" and "E" sheets sufficiently completed to indicate the design intent only lacking supporting details and sections. Specs will be advanced to draft versions of all sections. Advancement to 100% will incorporate 90% review comments and advance all drawings and specs to complete ready for bid documents only lacking bid date and time information. Bid Documents with Revisions will incorporate any 100% comments and add bid date specific information. After

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review comments are received from City staff for each deliverable, an on-board review will be scheduled to discuss comments and resolve any outstanding questions.

Task 2 - Bidding: Upon the City's authorization, BDI will issue documents for bidding, attend the Pre-Bid Conference and attend the Bid Opening. In addition, BDI will review bids as may be requested by the City and submit a summary of our findings. During the advertisement period, BDI will accept bidder inquiries to a dedicated e-mail address. Incidental inquiries will be directly responded to. Those that would have any impact on the contract will be responded to by the issuance of addenda by BDI after City review and approval.

Task 3 - Construction Administration: The anticipated construction period is estimated at 90 days to Substantial Completion plus another 30 to Final Completion. During this period, BDI will provide for limited construction administration inclusive of attendance at a pre-construction conference and monthly status meetings with the Contractor and City staff. BDI's Project Manager will make monthly periodic site visits and the Design Leader will make weekly site visits in support of the City's routine inspection services to review progress and address any questions arising during construction. BDI will be available for phone consultation with City staff. BDI will review the Contractor's monthly requests for payment and make recommendations to the City for payment. BDI will review and make recommendations on Change Order requests as necessary. The structural and electrical Engineers of Record will make milestone site visits (4 total anticipated) as appropriate to the progression of the work. Continuous detailed construction inspection is not included.

Task 4 - Record Drawings: BDI will prepare a set of record drawings based on information provided by the Contractor and input from City staff. BDI will furnish one set of drawings in electronic pdf and dwg format along with one hard copy of the drawings.

Geotechnical Allowance: In order to define the characteristics of the underlying soils for design and bidding services, a geotechnical allowance is requested as indicated on the attached fee breakout.

Project Time Line: We propose to provide the above described deliverables in compliance with the schedule outlined below.

Task	**Scheduled Completion**
Task 1 -60%	35 days after Notice to Proceed
Task 1 -90%	28 days after 60% approval
Task 1 -100%	21 days after 90% approval
Task 1 -Biddable Docs	14 days after 100% approval
Task 2	35 days after Advertisement by the City of Gulf Breeze
Task 3	120 days concurrent with the construction contract
Task 4	28 days after receipt of Contractor and City markups

Geotechnical Investigation is to be concurrent with Task 1

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions

449 West Main St.
Pensacola, Florida 32502
Phone: 850.438.9661
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Fee: We propose to perform tasks 1-4 outlined above for the Lump Sum Fee of $49,786.00 based on the attached fee estimate calculation. We propose to include an allowance of $4,000 for a geotechnical subconsultant.

We appreciate the opportunity to provide this proposal and look forward to assisting the City of Gulf Breeze with the replacement of the Tiger Point Golf Course West Course Pumphouse. If you have any questions please do not hesitate to call.

Sincerely,

BASKERVILLE-DONOVAN, INC.

Richard W. Delp, CSI, CDT
Project Manager

Accepted:_____

Date:_____

BASKERVILLE-DONOVAN, INC.
Professional Services Estimate
City of Gulf Breeze
Tiger Point Golf Course West Course Pumphouse

BASKERVILLE-DONOVAN, INC.
Innovative Infrastructure Solutions

Task Description	Project Manager	Design Leader	Design Engineer	Tech	Clerical	Amount
Hourly Rate	$175.00	$150.00	$100.00	$74.00	$60.00	
Task 1- Design Services						
1. 60% Design						
Mechanical/Process/Civil	2	16	8	16	6	$5,094.00
Structural	16			12		$3,688.00
Electrical	1	8				$1,375.00
2. 90% Design						
Mechanical/Process/Civil	2	8	8	16	6	$3,894.00
Structural	8			20		$2,880.00
Electrical	1	16				$2,575.00
3. 100% Design						
Mechanical/Process/Civil	2	8	4	8	6	$2,902.00
Structural	8			8		$1,992.00
Electrical	1	28				$4,375.00
4. Client Review (at each phase)						
Basis of Design	2	2				$650.00
60%	2	2				$650.00
90%	2	2				$650.00
100%	2	2				$650.00
5. Bid Documents with Revisions	2	2	2		4	$1,090.00
				Sub-Total Task 3		**$32,465.00**
Task 2 - Bidding	4	4		4	8	$2,076.00
(document issuance, prebid conf., bid inquiry responses)				**Sub-Total Task 4**		**$2,076.00**
Task 3 - Construction Administration						
CA Documentation & Meetings	8	48			17	$9,620.00
Based upon 90 days to Substantial plus 30 to final	0.5 hr/wk	3 hrs/wk			1 hr/wk	
EE and Structural EOR Reviews at Milestones	8	8			4	$2,840.00
(site visits w/ follow-up)	4 hrs/visit	4 hrs/visit				
				Sub-Total Task 5		**$12,460.00**
Task 4 - Record Drawings	1	2		10	2	$1,335.00
Based upon Contractor Submittal						
				Sub-Total Task 6		**$1,335.00**
Sub-Total: Hours	72	156	22	94	53	
Sub-Total: Fees (exclusive of survey)	$12,600.00	$23,400.00	$2,200.00	$6,956.00	$3,180.00	
Subtotal Task 1 through 4						**$48,336.00**
Direct Expense Allowance @ 3% of TASK 1 - 4						**$1,450.00**
Total Lump Sum Fee						**$49,786.00**
Geotechnical Subconsultant Allowance						$4,000.00
Total Fee						**$53,786.00**