Water Upgrades

City of Port St Lucie Scope of Work Summary

Flushometer Scope of Work Described												
Flushometer Scope of Work	Variable Flow Technology	Fixture Tuning	Fixture Reengineering	3-Year Product Warranty	Customer Training	Diaphragm Kit	ADA Handle	Vacuum Breaker	O-Ring	Diaphragm Valve X-Body	Hands-Free Flushing
Base Water Efficiency	X	X	X	X	X	X					
Base Maintenance Upgrade	X	X	X	X	X	X	X	X	X		
Base Infrastructure Upgrade	X	X	X	X	X	X	X	X	X	X	
Premium Infrastructure Upgrade	X	X	X	X	X	X	X	X	X	X	X

Tank Toilet Scope of Work Described															
Tank Toilet Scope of Work	Variable Flow Technology	Fixture Tuning	Fixture Reengineering	3-Year Product Warranty	Customer Training	Flapper Assembly; Chemical Resistant	Overflow Tube Modification	Refill Tube Modification	Flow Diverter	Ballcock; Chemical Resistant	Braided Stainless Steel Supply Line	Trip Lever	Angle Stop "Adder Valve"	New Seat and Overflow Tube	Tank-to-Bowl Gaskets and Nuts
Tank Toilet System Tuning	X	X	X	X	X	X	X	X							
Tank Toilet Retrofit Upgrade	X	X	X	X	X	X	X	X	X	X	X	X			

	Flushometer Scope										Tank Toilet Scope				Sink Scope			Showers			Flushometer Toilet Replacements						Tank Toilet Replacements						Urinal Replacements					
	Diaphragm Calibration	Diaphragm Retrofit	Diaphragm X-Body	Piston X-Body	Spud Replacement	Flushtube Replacement	Control Stop Retrofit	Control Stop Replacement	Handle-Mount Hands-Free	Piston Valve Hands-Free	System Tuning	Retrofit Upgrade	Angle Stop "Adder Valve"	Fill Valve & Tank Gasket	Vandal-Resistant Flow Ctrl	Manual Faucet	Hands-Free Sink Faucet	Wall Showerhead	Handheld Showerhead	Shower Diverter	Wall-Hung Toilet	Wall-Hung Toilet - ADA	Floor-Mount Toilet	Floor-Mount Toilet - ADA	Floor-Mount, Wall-Exit Toilet	Floor-Mount, Wall-Exit Toilet - ADA	High Performance Gravity	High Performance Gravity - ADA	Pressure Assist	Pressure Assist - ADA	Dual Flush	Dual Flush - ADA	Siphon Jet Urinal Bowl	Washout Urinal Bowl	Floor-Mount Urinal Stall	Waterless Urinal	HydraMetrics On-Demand System
1	174	0	51	0	84	84	0	0	41	0	0	38	4	0	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2	24	150	51	0	84	84	0	0	41	0	0	38	4	0	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3	24	0	201	0	89	89	0	0	41	0	0	38	4	0	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	24	0	201	0	126	126	0	0	121	0	0	38	4	0	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	24	0	201	0	89	89	0	0	41	0	0	38	4	0	270	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

City of Port St Lucie

Occupancy Summary

	Number of People			Hours Per Day			Days Per Year		
Building	Staff	Visitors	Participants	Staff	Visitors	Participants	Staff	Visitors	Participants
New City Hall (1)	100	722	100	9	1	4	250	250	250
Police Dept. (1)	40	100	10	9	1	3	250	355	355
Police Evidence Bldg (1)	2	2		9	1	3	250	355	355
Engineering / Tax (50)				9	1	3	250	355	355
Civic Center (53)	40	250	500	9	1	3	250	355	355
BLDG DEPT - Utilities (36)	5			9	1	3	250	355	355
Clinic (37)	4	20	20	9	1	3	250	355	355
Rosser PD Bldg (29)	21	15		9	1	3	250	355	355
Whispering Pines Park/Minsky Gym (14)	6	1,500	1,100	9	1	3	250	355	355
Bldg Contruction Office (38)	4			9	1	3	250	355	355
Westport Water Treatment (22)	8			9	1	3	250	355	355
Oak Hammock Park		20		9	1	3	250	355	355
Turtle Run Park (17)		150		9	1	3	250	355	355
Park and Rec Maint. (12)	4		12	9	1	3	250	355	355
Public Works Admin (6)	24			9	1	3	250	355	355
Dwyer Facility (39)	3		5	9	1	3	250	355	355
Code Enforcement/Animal Control (24)	10	10		9	1	3	250	355	355
Community Center (18)	24	2,200	630	9	1	3	250	355	355
Jaycee Park (10)			8	9	1	3	250	355	355
Girl Scout Park (15)			50	9	1	3	250	355	355
Charles F Ray Park (28)			60	9	1	3	250	355	355
River Place Park				9	1	3	250	355	355
Sportsman Park (4)		200	400	9	1	3	250	355	355
Swan Lake Park (7)		100	200	9	1	3	250	355	355
Rotary Park (9)		10		9	1	3	250	355	355
Police Athletic Club (33)	1		16	9	1	3	250	355	355
Lyngate Park (5)	1	90	180	9	1	3	250	355	355
Veterans Memorial Park (61)		5		9	1	3	250	355	355
Vet. Park Rivergate (8)	2	200	100	9	1	3	250	355	355
Sandhill Crane Park (13)	1	100	250	9	1	3	250	355	355
Police Station East (52)	2	2		9	1	3	250	355	355
Woodstock Trails		10		9	1	3	250	355	355
Botanical Gardens (57)	1	70		9	1	3	250	250	250
Saints Golf (26)	18	50	175	9	1	3	250	355	355
Fred Cook Park		10		9	1	3	250	355	355
Elks Park		10		9	1	3	250	355	355
Boys and Girls Club (40)	6	10		9	1	3	250	355	355
Jessica Clinton (31)		100	100	9	1	3	250	355	355
Railroad club (32)	1	2		9	1	3	250	250	355
Prineville Treatment Plant (19)	8		20	9	1	3	250	355	355
961 Ogden (55)	6			9	1	3	250	355	355
943 Ogden (42)	3			9	1	3	250	355	355
915 Ogden (41)	6			9	1	3	250	355	355
Utilities (51)	6			9	1	3	250	355	355
329 Greenway Terr (48)			1	9	1	3	250	355	355
325 Greenway Terr. (54)	1			9	1	3	250	355	355
301 Greenway Terr (46)	6			9	1	3	250	355	355
Kiwanis Park (11)		100	100	9	1	3	250	355	355
James Anderson Water Treatment (27)	8			9	1	3	250	355	355
Glades waste water (45)	6			9	1	3	250	355	355
McChesney Park (16)		100		9	1	3	250	355	355
Sportsman Park West (2)		50		9	1	3	250	355	355
Building X	0	0	0	9	1	3	250	355	355

City of Port St Lucie

Consumption and Savings by Building

Building	In Water Scope	Water / Sewer: Current Water Use (Gallons)	Water / Sewer: Post-Retrofit Water Use (Gallons)	Water / Sewer: Current Water Cost	Water / Sewer: Post-Retrofit Cost	Water / Sewer: Water Use Savings	Water / Sewer: Water Cost Savings	Thermal Energy: Current Hot Water Use	Thermal Energy: Retrofit Hot Water Use	Thermal Energy: Current Thermal Energy (therms)	Thermal Energy: Retrofit Thermal Energy (therms)	Thermal Energy: Thermal Savings (therms)	Thermal Energy: Thermal Savings	Maintenance	Total Cost Savings
New City Hall (1)	x	342,152	218,480	$ 4,352	$ 2,779	123,672	$ 1,573	55,238	27,619	270	135	135	$ 95	$ 123	$ 1,791
Police Dept. (1)	x	153,355	112,976	$ 1,951	$ 1,437	40,380	$ 514	38,621	28,582	189	140	49	$ 34	$ 45	$ 593
Police Evidence Bldg (1)	x	4,006	3,179	$ 51	$ 40	827	$ 11	704	211	3	1	2	$ 2	$ 8	$ 20
Engineering / Tax (50)	0	-	-	$ -	$ -	-	$ -	0	0	-	-	-	$ -	$ -	$ -
Civic Center (53)	0	224,196	224,196	$ 2,852	$ 2,852	-	$ -	46,434	46,434	227	227	-	$ -	$ -	$ -
BLDG DEPT - Utilities (36)	0	15,456	15,456	$ 197	$ 197	-	$ -	2,612	2,612	13	13	-	$ -	$ -	$ -
Clinic (37)	x	16,708	12,622	$ 213	$ 161	4,086	$ 52	2,188	1,459	11	7	4	$ 2	$ 4	$ 59
Rosser PD Bldg (29)	0	61,484	61,484	$ 782	$ 782	-	$ -	9,169	9,169	45	45	-	$ -	$ -	$ -
Whispering Pines Park/Minsky Gym (14)	x	399,424	265,366	$ 5,081	$ 3,375	134,058	$ 1,705	34,267	13,079	168	64	104	$ 486	$ 72	$ 2,264
Bldg Contruction Office (38)	x	12,169	6,697	$ 155	$ 85	5,471	$ 70	1,775	689	9	3	5	$ 4	$ 7	$ 80
Westport Water Treatment (22)	0	21,956	21,956	$ 279	$ 279	-	$ -	4,125	4,125	20	20	-	$ -	$ -	$ -
Oak Hammock Park	x	574	389	$ 7	$ 5	184	$ 2	91	21	0	0	0	$ 0	$ 8	$ 10
Turtle Run Park (17)	x	9,736	3,732	$ 124	$ 47	6,004	$ 76	322	161	2	1	1	$ 1	$ 5	$ 82
Park and Rec Maint. (12)	x	23,502	12,270	$ 299	$ 156	11,232	$ 143	2,025	1,028	10	5	5	$ 23	$ 4	$ 169
Public Works Admin (6)	x	61,415	33,366	$ 781	$ 424	28,049	$ 357	11,181	4,035	55	20	35	$ 164	$ 27	$ 548
Dwyer Facility (39)	x	7,691	6,249	$ 98	$ 79	1,442	$ 18	1,488	629	7	3	4	$ 20	$ 4	$ 42
Code Enforcement/Animal Control (24)	x	35,320	24,518	$ 449	$ 312	10,803	$ 137	5,163	1,526	25	7	18	$ 83	$ 7	$ 228
Community Center (18)	x	1,086,071	965,981	$ 13,815	$ 12,287	120,090	$ 1,528	546,952	516,821	2,678	2,530	148	$ 103	$ 67	$ 1,698
Jaycee Park (10)	x	4,362	1,527	$ 55	$ 19	2,835	$ 36	155	77	1	0	0	$ 0	$ 13	$ 49
Girl Scout Park (15)	x	18,660	11,196	$ 237	$ 142	7,464	$ 95	1,450	483	7	2	5	$ 3	$ 3	$ 101
Charles F Ray Park (28)	x	16,632	10,514	$ 212	$ 134	6,117	$ 78	870	580	4	3	1	$ 1	$ 11	$ 90
River Place Park	x	-	-	$ -	$ -	-	$ -	0	0	-	-	-	$ -	$ 8	$ 8
Sportsman Park (4)	x	133,429	88,009	$ 1,697	$ 1,119	45,421	$ 578	8,320	5,494	41	27	14	$ 10	$ 27	$ 614
Swan Lake Park (7)	0	73,408	73,408	$ 934	$ 934	-	$ -	5,612	5,612	27	27	-	$ -	$ -	$ -
Rotary Park (9)	x	350	249	$ 4	$ 3	101	$ 1	32	11	0	0	0	$ 0	$ 5	$ 7
Police Athletic Club (33)	x	7,101	4,722	$ 90	$ 60	2,379	$ 30	864	346	4	2	3	$ 2	$ 19	$ 51
Lyngate Park (5)	x	60,875	41,068	$ 774	$ 522	19,807	$ 252	7,627	1,983	37	10	28	$ 19	$ 26	$ 297
Veterans Memorial Park (61)	x	124	124	$ 2	$ 2	-	$ -	5	5	0	0	-	$ -	$ 5	$ 5
Vet. Park Rivergate (8)	x	55,709	32,082	$ 709	$ 408	23,627	$ 301	4,403	1,390	22	7	15	$ 10	$ 16	$ 326
Sandhill Crane Park (13)	x	96,244	65,658	$ 1,224	$ 835	30,586	$ 389	17,862	14,229	87	70	18	$ 12	$ 46	$ 448
Police Station East (52)	x	5,308	3,550	$ 68	$ 45	1,757	$ 22	801	438	4	2	2	$ 8	$ 7	$ 38
Woodstock Trails	x	395	249	$ 5	$ 3	146	$ 2	16	11	0	0	0	$ 0	$ 5	$ 7
Botanical Gardens (57)	x	3,976	3,339	$ 51	$ 42	637	$ 8	644	186	3	1	2	$ 2	$ 13	$ 23
Saints Golf (26)	x	96,845	73,145	$ 1,232	$ 930	23,700	$ 301	22,689	13,736	111	67	44	$ 31	$ 43	$ 376
Fred Cook Park	x	305	249	$ 4	$ 3	56	$ 1	16	11	0	0	0	$ 0	$ 5	$ 6
Elks Park	x	424	249	$ 5	$ 3	175	$ 2	27	11	0	0	0	$ 0	$ 5	$ 8
Boys and Girls Club (40)	0	20,881	20,881	$ 266	$ 266	-	$ -	2,072	2,072	10	10	-	$ -	$ -	$ -
Jessica Clinton (31)	x	44,125	31,214	$ 561	$ 397	12,911	$ 164	8,287	7,630	41	37	3	$ 15	$ 18	$ 198
Railroad club (32)	0	2,533	2,533	$ 32	$ 32	-	$ -	318	318	2	2	-	$ -	$ -	$ -
Prineville Treatment Plant (19)	0	22,449	22,449	$ 286	$ 286	-	$ -	3,251	3,251	16	16	-	$ -	$ -	$ -
961 Ogden (55)	0	13,577	13,577	$ 173	$ 173	-	$ -	1,897	1,897	9	9	-	$ -	$ -	$ -
943 Ogden (42)	0	7,484	7,484	$ 95	$ 95	-	$ -	975	975	5	5	-	$ -	$ -	$ -
915 Ogden (41)	0	16,578	16,578	$ 211	$ 211	-	$ -	2,750	2,750	13	13	-	$ -	$ -	$ -
Utilities (51)	0	25,739	25,739	$ 327	$ 327	-	$ -	2,158	2,158	11	11	-	$ -	$ -	$ -
329 Greenway Terr (48)	0	363	363	$ 5	$ 5	-	$ -	81	81	0	0	-	$ -	$ -	$ -
325 Greenway Terr (54)	0	2,808	2,808	$ 36	$ 36	-	$ -	447	447	2	2	-	$ -	$ -	$ -
301 Greenway Terr (46)	0	22,866	22,866	$ 291	$ 291	-	$ -	2,774	2,774	14	14	-	$ -	$ -	$ -
Kiwanis Park (11)	x	45,072	24,880	$ 573	$ 316	20,192	$ 257	1,074	1,074	5	5	-	$ -	$ 3	$ 260
James Anderson Water Treatment (27)	0	16,081	16,081	$ 205	$ 205	-	$ -	2,441	2,441	12	12	-	$ -	$ -	$ -
Glades waste water (45)	0	13,379	13,379	$ 170	$ 170	-	$ -	2,508	2,508	12	12	-	$ -	$ -	$ -
McChesney Park (16)	x	4,575	2,479	$ 58	$ 32	2,096	$ 27	295	107	1	1	1	$ 1	$ 22	$ 49
Sportsman Park West (2)	x	1,576	1,217	$ 20	$ 15	359	$ 5	171	54	1	0	1	$ 0	$ 17	$ 22
Totals (of Buildings in Scope)		**2,748,208**	**2,061,544**	**$ 34,957**	**$ 26,223**	**686,664**	**$ 8,734**	**775,623**	**643,718**	**3,797**	**3,151**	**646**	**$ 1,133**	**$ 699**	**$ 10,566**

HYDRAMETRICS

City of Port St Lucie

Scope of Work by Building

Site Information / Quantities on Site

Building	In Scope of Work	Lavatory Sinks	General Use Sinks	Multipurpose Lav Sinks	Tank Toilets	Pressure Assist Toilet	Flushometer Toilets	Urinals	CONRUN Urinals	Hoppers	Wall Showers	Handheld Showers
New City Hall (1)	x	39	5		3		34	10			2	1
Police Dept. (1)	x	12	2				12	5			4	
Police Evidence Bldg (1)	x	3					3					
Engineering / Tax (50)												
Civic Center (53)												
BLDG DEPT - Utilities (36)												
Clinic (37)	x	2	4		2							
Rosser PD Bldg (29)												
Whispering Pines Park/Minsky Gym (14	x	22					22	5			1	
Bldg Contruction Office (38)	x	4	1		4						2	
Westport Water Treatment (22)												
Oak Hammock Park	x	4			3			1				
Turtle Run Park (17)	x	2					2					
Park and Rec Maint. (12)	x	2	1		2						2	
Public Works Admin (6)	x	10	2		10			4			1	
Dwyer Facility (39)	x	3	1		2	1					1	
Code Enforcement/Animal Control (24	x	4	1		4							
Community Center (18)	x	20	3				20	5			2	4
Jaycee Park (10)	x	3					4	1				
Girl Scout Park (15)	x	1					1					
Charles F Ray Park (28)	x	4					3	1				
River Place Park	x	4			3			1				
Sportsman Park (4)	x	10			3		5	3				
Swan Lake Park (7)												
Rotary Park (9)	x	2					2					
Police Athletic Club (33)	x	5	1				5	2				
Lyngate Park (5)	x	7	1		3		5	3				
Veterans Memorial Park (61)	x	2					2					
Vet. Park Rivergate (8)	x	3					5	1				
Sandhill Crane Park (13)	x	17	1				12	5			1	2
Police Station East (52)	x	3	2		4						1	
Woodstock Trails	x	2					2					
Botanical Gardens (57)	x	7			6			1			1	
Saints Golf (26)	x	21	1		1		10	5				2
Fred Cook Park	x	2					2					
Elks Park	x	2					2					
Boys and Girls Club (40)												
Jessica Clinton (31)	x	9			1		4	2			1	
Railroad club (32)												
Prineville Treatment Plant (19)												
961 Ogden (55)												
943 Ogden (42)												
915 Ogden (41)												
Utilities (51)												
329 Greenway Terr (48)												
325 Greenway Terr. (54)												
301 Greenway Terr (46)												
Kiwanis Park (11)	x	1					1					
James Anderson Water Treatment (27												
Glades waste water (45)												
McChesney Park (16)	x	8					6	2				
Sportsman Park West (2)	x	6			4		4	2				
Building X	x											
Totals	x	246	26	0	55	1	168	59	0	0	19	9

Scope of Work (Option 3) — Flushometers Recommissioning / Tank Toilets / Sinks

Building	Diaphragm Calibration	Diaphragm Retrofit	Diaphragm X-Body	Piston X-Body	Spud Replacement	Flushtube Replacement	Control Stop Retrofit	Control Stop Replacement	Handle-Mount Hands-Free	Piston Valve Hands-Free	System Tuning	Retrofit Upgrade	Angle Stop "Adder Valve"	Fill Valve & Tank Gasket	Vandal-Resistant Flow Ctrl
New City Hall (1)			44		13	13			3			3	0		44
Police Dept. (1)			17		7	7			3						14
Police Evidence Bldg (1)			3		3	3			3						3
Engineering / Tax (50)															
Civic Center (53)															
BLDG DEPT - Utilities (36)															
Clinic (37)												2	0		6
Rosser PD Bldg (29)															
Whispering Pines Park/Minsky Gym (14	6		21		8	8			1						22
Bldg Contruction Office (38)												4	0		5
Westport Water Treatment (22)															
Oak Hammock Park			1		0	0						3	0		4
Turtle Run Park (17)	2														2
Park and Rec Maint. (12)												2	0		3
Public Works Admin (6)			4		1	1						10	1		12
Dwyer Facility (39)												2	0		4
Code Enforcement/Animal Control (24												4	0		5
Community Center (18)			25		15	15			12						23
Jaycee Park (10)	4		1		0	0									3
Girl Scout Park (15)			1		0	0									1
Charles F Ray Park (28)			4		1	1									4
River Place Park			1		0	0						3	0		4
Sportsman Park (4)			8		8	8						3	0		10
Swan Lake Park (7)															
Rotary Park (9)			2		1	1									2
Police Athletic Club (33)			7		2	2									6
Lyngate Park (5)			8		2	2						3	0		6
Veterans Memorial Park (61)	2														2
Vet. Park Rivergate (8)			6		2	2									3
Sandhill Crane Park (13)			17		5	5			1						18
Police Station East (52)												4	0		5
Woodstock Trails	2														2
Botanical Gardens (57)			1		1	1			1			6	1		7
Saints Golf (26)			15		14	14			13			1	0		22
Fred Cook Park	2														2
Elks Park	2														2
Boys and Girls Club (40)															
Jessica Clinton (31)			6		2	2						1	0		9
Railroad club (32)															
Prineville Treatment Plant (19)															
961 Ogden (55)															
943 Ogden (42)															
915 Ogden (41)															
Utilities (51)															
329 Greenway Terr (48)															
325 Greenway Terr. (54)															
301 Greenway Terr (46)															
Kiwanis Park (11)			1		0	0									1
James Anderson Water Treatment (27															
Glades waste water (45)															
McChesney Park (16)	4		4		1	1									8
Sportsman Park West (2)			4		4	4			4			4	0		6
Building X															
Totals	24	0	201	0	89	89	0	0	41	0	0	55	6	0	270

Scope of Work (Option 3) — Sinks / Showers / Flushometer Toilet Replacements / Tank Toilet Replacements / Urinal Replacements

Building	Manual Faucet	Hands-Free Sink Faucet	Wall Showerhead	Handheld Showerhead	Shower Diverter	Wall-Hung Toilet	Wall-Hung Toilet - ADA	Floor-Mount Toilet	Floor-Mount Toilet - ADA	Floor-Mount, Wall-Exit Toilet	Floor-Mount, Wall-Exit Toilet - ADA	High Performance Gravity	High Performance Gravity - ADA	Pressure Assist	Pressure Assist - ADA	Dual Flush	Dual Flush - ADA	Siphon Jet Urinal Bowl	Washout Urinal Bowl	Floor-Mount Urinal Stall	Waterless Urinal	On-Demand System for CONRUN
Totals	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

City of Port St Lucie

Consumption Calculations

Consumption Summary by Building

Water/Sewer Consumption

					Water/Sewer Consumption and Cost				Savings	
Building	Water Rate ($/kgal)	Sewer Rate ($/kgal)	Total Water/ Sewer Cost	Existing Overall Annual Water Use (1000 Gallons)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
New City Hall (1)	5.72	7.00	$ 12.72	1,610	342,152	218,480	$ 4,352	$ 2,779	123,672	$ 1,573
Police Dept. (1)	5.72	7.00	$ 12.72	290	153,355	112,976	$ 1,951	$ 1,437	40,380	$ 514
Police Evidence Bldg (1)	5.72	7.00	$ 12.72	123	4,006	3,179	$ 51	$ 40	827	$ 11
Engineering / Tax (50)	5.72	7.00	$ 12.72	0	-	-	$ -	$ -	-	$ -
Civic Center (53)	5.72	7.00	$ 12.72	939	224,196	224,196	$ 2,852	$ 2,852	-	$ -
BLDG DEPT - Utilities (36)	5.72	7.00	$ 12.72	18	15,456	15,456	$ 197	$ 197	-	$ -
Clinic (37)	5.72	7.00	$ 12.72	32	16,708	12,622	$ 213	$ 161	4,086	$ 52
Rosser PD Bldg (29)	5.72	7.00	$ 12.72	74	61,484	61,484	$ 782	$ 782	-	$ -
Whispering Pines Park/Minsky Gym (	5.72	7.00	$ 12.72	441	399,424	265,366	$ 5,081	$ 3,375	134,058	$ 1,705
Bldg Contruction Office (38)	5.72	7.00	$ 12.72	21	12,169	6,697	$ 155	$ 85	5,471	$ 70
Westport Water Treatment (22)	5.72	7.00	$ 12.72	n/a	21,956	21,956	$ 279	$ 279	-	$ -
Oak Hammock Park	5.72	7.00	$ 12.72	n/a	574	389	$ 7	$ 5	184	$ 2
Turtle Run Park (17)	5.72	7.00	$ 12.72	46	9,736	3,732	$ 124	$ 47	6,004	$ 76
Park and Rec Maint. (12)	5.72	7.00	$ 12.72	116	23,502	12,270	$ 299	$ 156	11,232	$ 143
Public Works Admin (6)	5.72	7.00	$ 12.72	609	61,415	33,366	$ 781	$ 424	28,049	$ 357
Dwyer Facility (39)	5.72	7.00	$ 12.72	10	7,691	6,249	$ 98	$ 79	1,442	$ 18
Code Enforcement/Animal Control (2	5.72	7.00	$ 12.72	n/a	35,320	24,518	$ 449	$ 312	10,803	$ 137
Community Center (18)	5.72	7.00	$ 12.72	n/a	1,086,071	965,981	$ 13,815	$ 12,287	120,090	$ 1,528
Jaycee Park (10)	5.72	7.00	$ 12.72	5	4,362	1,527	$ 55	$ 19	2,835	$ 36
Girl Scout Park (15)	5.72	7.00	$ 12.72	43	18,660	11,196	$ 237	$ 142	7,464	$ 95
Charles F Ray Park (28)	5.72	7.00	$ 12.72	51	16,632	10,514	$ 212	$ 134	6,117	$ 78
River Place Park	5.72	7.00	$ 12.72	n/a	-	-	$ -	$ -	-	$ -
Sportsman Park (4)	5.72	7.00	$ 12.72	272	133,429	88,009	$ 1,697	$ 1,119	45,421	$ 578
Swan Lake Park (7)	5.72	7.00	$ 12.72	138	73,408	73,408	$ 934	$ 934	-	$ -
Rotary Park (9)	5.72	7.00	$ 12.72	n/a	350	249	$ 4	$ 3	101	$ 1
Police Athletic Club (33)	5.72	7.00	$ 12.72	30	7,101	4,722	$ 90	$ 60	2,379	$ 30
Lyngate Park (5)	5.72	7.00	$ 12.72	112	60,875	41,068	$ 774	$ 522	19,807	$ 252
Veterans Memorial Park (61)	5.72	7.00	$ 12.72	n/a	124	124	$ 2	$ 2	-	$ -
Vet. Park Rivergate (8)	5.72	7.00	$ 12.72	205	55,709	32,082	$ 709	$ 408	23,627	$ 301
Sandhill Crane Park (13)	5.72	7.00	$ 12.72	243	96,244	65,658	$ 1,224	$ 835	30,586	$ 389
Police Station East (52)	5.72	7.00	$ 12.72	12	5,308	3,550	$ 68	$ 45	1,757	$ 22
Woodstock Trails	5.72	7.00	$ 12.72	n/a	395	249	$ 5	$ 3	146	$ 2
Botanical Gardens (57)	5.72	7.00	$ 12.72	4	3,976	3,339	$ 51	$ 42	637	$ 8
Saints Golf (26)	5.72	7.00	$ 12.72	479	96,845	73,145	$ 1,232	$ 930	23,700	$ 301
Fred Cook Park	5.72	7.00	$ 12.72	n/a	305	249	$ 4	$ 3	56	$ 1
Elks Park	5.72	7.00	$ 12.72	n/a	424	249	$ 5	$ 3	175	$ 2
Boys and Girls Club (40)	5.72	7.00	$ 12.72	23	20,881	20,881	$ 266	$ 266	-	$ -
Jessica Clinton (31)	5.72	7.00	$ 12.72	73	44,125	31,214	$ 561	$ 397	12,911	$ 164
Railroad club (32)	5.72	7.00	$ 12.72	4	2,533	2,533	$ 32	$ 32	-	$ -
Prineville Treatment Plant (19)	5.72	7.00	$ 12.72	31	22,449	22,449	$ 286	$ 286	-	$ -
961 Ogden (55)	5.72	7.00	$ 12.72	16	13,577	13,577	$ 173	$ 173	-	$ -
943 Ogden (42)	5.72	7.00	$ 12.72	9	7,484	7,484	$ 95	$ 95	-	$ -
915 Ogden (41)	5.72	7.00	$ 12.72	24	16,578	16,578	$ 211	$ 211	-	$ -
Utilities (51)	5.72	7.00	$ 12.72	30	25,739	25,739	$ 327	$ 327	-	$ -
329 Greenway Terr (48)	5.72	7.00	$ 12.72	1	363	363	$ 5	$ 5	-	$ -
325 Greenway Terr. (54)	5.72	7.00	$ 12.72	7	2,808	2,808	$ 36	$ 36	-	$ -
301 Greenway Terr (46)	5.72	7.00	$ 12.72	47	22,866	22,866	$ 291	$ 291	-	$ -
Kiwanis Park (11)	5.72	7.00	$ 12.72	76	45,072	24,880	$ 573	$ 316	20,192	$ 257
James Anderson Water Treatment (2	5.72	7.00	$ 12.72	18,012	16,081	16,081	$ 205	$ 205	-	$ -
Glades waste water (45)	5.72	7.00	$ 12.72	3,338	13,379	13,379	$ 170	$ 170	-	$ -
McChesney Park (16)	5.72	7.00	$ 12.72	n/a	4,575	2,479	$ 58	$ 32	2,096	$ 27
Sportsman Park West (2)	5.72	7.00	$ 12.72	212	1,576	1,217	$ 20	$ 15	359	$ 5
Building X	5.72	7.00	$ 12.72	n/a	-	-	$ -	$ -	-	$ -
Totals			13	5,115	3,309,447	2,622,783	$ 42,096	$ 33,362	686,664	$ 8,734

Thermal Energy Consumption

	Hot Water Use		Thermal Energy to Heat Water				Thermal Savings		
	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
	55,238	27,619	47	80%	270	135	$ 0.70	135	$ 95
	38,621	28,582	47	80%	189	140	$ 0.70	49	$ 34
	704	211	47	80%	3	1	$ 0.70	2	$ 2
	0	0	47	80%	-	-	$ 0.70	-	$ -
	46,434	46,434	47	80%	227	227	$ 0.70	-	$ -
	2,612	2,612	47	80%	13	13	$ 0.70	-	$ -
	2,188	1,459	47	80%	11	7	$ 0.70	4	$ 2
	9,169	9,169	47	80%	45	45	$ 0.70	-	$ -
	34,267	13,079	47	80%	168	64	$ 4.69	104	$ 486
	1,775	689	47	80%	9	3	$ 0.70	5	$ 4
	4,125	4,125	47	80%	20	20	$ 4.69	-	$ -
	91	21	47	80%	0	0	$ 0.70	0	$ 0
	322	161	47	80%	2	1	$ 0.70	1	$ 1
	2,025	1,028	47	80%	10	5	$ 4.69	5	$ 23
	11,181	4,035	47	80%	55	20	$ 4.69	35	$ 164
	1,488	629	47	80%	7	3	$ 4.69	4	$ 20
	5,163	1,526	47	80%	25	7	$ 4.69	18	$ 83
	546,952	516,821	47	80%	2,678	2,530	$ 0.70	148	$ 103
	155	77	47	80%	1	0	$ 0.70	0	$ 0
	1,450	483	47	80%	7	2	$ 0.70	5	$ 3
	870	580	47	80%	4	3	$ 0.70	1	$ 1
	0	0	47	80%	-	-	$ 0.70	-	$ -
	8,320	5,494	47	80%	41	27	$ 0.70	14	$ 10
	5,612	5,612	47	80%	27	27	$ 0.70	-	$ -
	32	11	47	80%	0	0	$ 0.70	0	$ 0
	864	346	47	80%	4	2	$ 0.70	3	$ 2
	7,627	1,983	47	80%	37	10	$ 0.70	28	$ 19
	5	5	47	80%	0	0	$ 0.70	-	$ -
	4,403	1,390	47	80%	22	7	$ 0.70	15	$ 10
	17,862	14,229	47	80%	87	70	$ 0.70	18	$ 12
	801	438	47	80%	4	2	$ 4.69	2	$ 8
	16	11	47	80%	0	0	$ 0.70	0	$ 0
	644	186	47	80%	3	1	$ 0.70	2	$ 2
	22,689	13,736	47	80%	111	67	$ 0.70	44	$ 31
	16	11	47	80%	0	0	$ 0.70	0	$ 0
	27	11	47	80%	0	0	$ 0.70	0	$ 0
	2,072	2,072	47	80%	10	10	$ 0.70	-	$ -
	8,287	7,630	47	80%	41	37	$ 4.69	3	$ 15
	318	318	47	80%	2	2	$ 0.70	-	$ -
	3,251	3,251	47	80%	16	16	$ 0.70	-	$ -
	1,897	1,897	47	80%	9	9	$ 4.69	-	$ -
	975	975	47	80%	5	5	$ 4.69	-	$ -
	2,750	2,750	47	80%	13	13	$ 4.69	-	$ -
	2,158	2,158	47	80%	11	11	$ 4.69	-	$ -
	81	81	47	80%	0	0	$ 4.69	-	$ -
	447	447	47	80%	2	2	$ 4.69	-	$ -
	2,774	2,774	47	80%	14	14	$ 4.69	-	$ -
	1,074	1,074	47	80%	5	5	$ 0.70	-	$ -
	2,441	2,441	47	80%	12	12	$ 4.69	-	$ -
	2,508	2,508	47	80%	12	12	$ 4.69	-	$ -
	295	107	47	80%	1	1	$ 0.70	1	$ 1
	171	54	47	80%	1	0	$ 0.70	1	$ 0
	0	0	47	80%	-	-	$ 0.70	-	$ -
	865,246	733,342			4,236	3,590		646	$ 1,133

Current (baseline) | Post-Retrofit | Savings

City of Port St Lucie

Consumption Calculations

Consumption Summary by Category

Water/Sewer Consumption

Building		Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Water/Sewer Consumption and Cost: Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Savings: Water Use Savings	Water Cost Savings
Public Use	Toilets	2.50	1.81	481,129	481,129	1,200,444	870,683	$ 15,270	$ 11,075	329,760	$ 4,195
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	2.52	2.20	195,595	195,595	493,529	430,479	$ 6,278	$ 5,476	63,050	$ 802
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals	0.97	0.66	211,983	211,983	205,997	140,144	$ 2,620	$ 1,783	65,853	$ 838
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals	1.17	0.98	48,955	48,955	57,378	48,109	$ 730	$ 612	9,269	$ 118
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	1.39	0.68	194,307	194,307	269,572	132,016	$ 3,429	$ 1,679	137,556	$ 1,750
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	1.84	1.11	90,606	90,606	166,605	100,428	$ 2,119	$ 1,277	66,177	$ 842
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers	2.12	2.12	355,728	355,728	754,098	754,098	$ 9,592	$ 9,592	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers	2.16	2.16	61,156	61,156	131,825	131,825	$ 1,677	$ 1,677	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers	2.50	1.25	12,000	12,000	30,000	15,000	$ 382	$ 191	15,000	$ 191
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
Total Savings						3,309,447	2,622,783	$ 42,096	$ 33,362	686,664	$ 8,734

Thermal Energy Consumption

Hot Water Use: Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Thermal Energy to Heat Water: Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Thermal Savings (therms)	Thermal Cost Savings
60%	160,596	78,648	786	385	401	$ 712
0%	0	0	-	-	-	$ -
0%	0	0	-	-	-	$ -
60%	99,254	59,829	486	293	193	$ 384
0%	0	0	-	-	-	$ -
0%	0	0	-	-	-	$ -
66%	497,384	497,384	2,435	2,435	-	$ -
0%	0	0	-	-	-	$ -
0%	0	0	-	-	-	$ -
66%	86,949	86,949	426	426	-	$ -
0%	0	0	-	-	-	$ -
0%	0	0	-	-	-	$ -
	0	0	-	-	-	$ -
70%	21,064	10,532	103	52	52	$ 36
	0	0	-	-	-	$ -
0%	0	0	-	-	-	$ -
0%	0	0	-	-	-	$ -
	865,246	733,342	4,236	3,590	646	$ 1,133

City of Port St Lucie

Consumption Calculations

New City Hall (1)

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	2.94	1.98	62,298	62,298	183,241	123,306	$ 2,331	$ 1,568	59,935	$ 762										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	3.33	2.60	10,855	10,855	36,094	28,224	$ 459	$ 359	7,870	$ 100										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals	1.00	0.66	26,699	26,699	26,699	17,736	$ 340	$ 226	8,963	$ 114										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals	0.83	0.75	6,513	6,513	5,428	4,885	$ 69	$ 62	543	$ 7										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks	1.80	0.50	25,923	25,923	46,535	12,961	$ 592	$ 165	33,574	$ 427	60%	27,723	7,722	47	80%	136	38	$ 0.70	98	$ 69
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks	1.80	0.88	14,028	14,028	25,197	12,409	$ 321	$ 158	12,787	$ 163	60%	15,011	7,393	47	80%	73	36	$ 0.70	37	$ 26
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers	2.17	2.17	8,750	8,750	18,958	18,958	$ 241	$ 241	-	$ -	66%	12,504	12,504	47	80%	61	61	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						342,152	218,480	$ 4,352	$ 2,779	123,672	$ 1,573		55,238	27,619			270	135		135	$ 95

City of Port St Lucie

Consumption Calculations

Police Dept. (1)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	2.70	2.27	6,969	6,969	18,817	15,797	$ 239	$ 201	3,020	$ 38
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	3.33	2.60	16,454	16,454	54,848	42,781	$ 698	$ 544	12,067	$ 153
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals	1.50	0.75	4,182	4,182	6,272	3,136	$ 80	$ 40	3,136	$ 40
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals	1.25	0.71	9,873	9,873	12,341	7,034	$ 157	$ 89	5,307	$ 67
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	1.95	0.70	2,652	2,652	5,172	1,857	$ 66	$ 24	3,315	$ 42
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	1.73	0.61	12,061	12,061	20,906	7,371	$ 266	$ 94	13,535	$ 172
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers	2.50	2.50	14,000	14,000	35,000	35,000	$ 445	$ 445	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						153,355	112,976	$ 1,951	$ 1,437	40,380	$ 514

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	3,081	1,106	47	80%	15	5	$ 0.70	10	$ 7
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	12,454	4,391	47	80%	61	21	$ 0.70	39	$ 28
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	23,085	23,085	47	80%	113	113	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
	38,621	28,582			189	140		49	$ 34

Police Evidence Bldg (1)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	1.60	1.60	1,766	1,766	2,825	2,825	$ 36	$ 36	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks					-	-	$ -	$ -	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	1.67	0.50	709	709	1,181	354	$ 15	$ 5	827	$ 11
	Sinks					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	704	211	47	80%	3	1	$ 0.70	2	$ 2
60%	0	0	47	80%	-	-	$ 0.70	-	$ -

City of Port St Lucie

Consumption Calculations

	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Water / Sewer Rate = $ 12.72 / 1000 Gallons					4,006	3,179	$ 51	$ 40	827	$ 11		704	211			3	1		2	$ 2

Engineering / Tax (50)

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	1.60	1.60			-	-	$ -	$ -	-	$ -										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	1.86	1.86			-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals	1.50	1.50			-	-	$ -	$ -	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals	1.00	1.00			-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks	1.43	1.43			-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks	1.22	1.22			-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Water / Sewer Rate = $ 12.72 / 1000 Gallons					-	-	$ -	$ -	-	$ -		-	-			-	-		-	$ -

Civic Center (53)

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		

City of Port St Lucie

Consumption Calculations

Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	1.66	1.66	45,593	45,593	75,563	75,563	$ 961	$ 961	-	$ -										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	1.66	1.66	28,586	28,586	47,364	47,364	$ 602	$ 602	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals	0.67	0.67	19,540	19,540	13,027	13,027	$ 166	$ 166	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals	1.50	1.50	9,529	9,529	14,293	14,293	$ 182	$ 182	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks	1.20	1.20	29,443	29,443	35,331	35,331	$ 449	$ 449	-	$ -	60%	21,048	21,048	47	80%	103	103	$ 0.70	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks	0.78	0.78	1,713	1,713	1,343	1,343	$ 17	$ 17	-	$ -	60%	800	800	47	80%	4	4	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers	2.00	2.00	18,638	18,638	37,275	37,275	$ 474	$ 474	-	$ -	66%	24,586	24,586	47	80%	120	120	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						224,196	224,196	$ 2,852	$ 2,852	-	$ -		46,434	46,434			227	227		-	$ -

BLDG DEPT - Utilities (36)

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water					Thermal Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	2.55	2.55	4,342	4,342	11,073	11,073	$ 141	$ 141	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals					-	-	$ -	$ -	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks	2.50	2.50	1,754	1,754	4,384	4,384	$ 56	$ 56	-	$ -	60%	2,612	2,612	47	80%	13	13	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -

City of Port St Lucie

Consumption Calculations

Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						15,456	15,456	$ 197	$ 197	-	$ -		2,612	2,612			13	13		-	$ -

Clinic (37)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	2.05	1.60	6,358	6,358	13,035	10,173	$ 166	$ 129	2,861	$ 36
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	1.65	1.10	1,843	1,843	3,042	2,028	$ 39	$ 26	1,014	$ 13
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	2.25	1.50	281	281	631	421	$ 8	$ 5	210	$ 3
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						16,708	12,622	$ 213	$ 161	4,086	$ 52

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	1,812	1,208	47	80%	9	6	$ 0.70	3	$ 2
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	376	251	47	80%	2	1	$ 0.70	1	$ 0
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
	2,188	1,459			11	7		4	$ 2

Rosser PD Bldg (29)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings

City of Port St Lucie

Consumption Calculations

General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	2.84	2.84	13,840	13,840	39,271	39,271	$ 500	$ 500	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals					-	-	$ -	$ -	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals	1.50	1.50	4,613	4,613	6,920	6,920	$ 88	$ 88	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks	1.94	1.94	7,419	7,419	14,374	14,374	$ 183	$ 183	-	$ -	60%	8,563	8,563	47	80%	42	42	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers	2.50	2.50	368	368	919	919	$ 12	$ 12	-	$ -	66%	606	606	47	80%	3	3	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						61,484	61,484	$ 782	$ 782	-	$ -		9,169	9,169			45	45		-	$ -

Whispering Pines Park/Minsky Gym (14)

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	2.51	1.79	118,561	118,561	298,097	212,281	$ 3,792	$ 2,700	85,816	$ 1,092										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	2.50	2.60	261	261	651	677	$ 8	$ 9	(26)	$ (0)										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals	0.85	0.60	50,812	50,812	43,190	30,487	$ 549	$ 388	12,703	$ 162										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks	1.32	0.50	43,105	43,105	56,960	21,552	$ 725	$ 274	35,408	$ 450	60%	33,934	12,840	47	80%	166	63	$ 4.69	103	$ 484
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Sinks	2.00	0.50	105	105	210	53	$ 3	$ 1	158	$ 2	60%	125	31	47	80%	1	0	$ 4.69	0	$ 2
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Showers	3.00	3.00	105	105	315	315	$ 4	$ 4	-	$ -	66%	208	208	47	80%	1	1	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										

City of Port St Lucie

Consumption Calculations

Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						399,424	265,366	$ 5,081	$ 3,375	134,058	$ 1,705

70%	0	0	47	80%	-	-	$ -	-	$ -					
70%	0	0	47	80%	-	-	$ -	-	$ -					
70%	0	0	47	80%	-	-	$ -	-	$ -					
			47	80%	-	-	$ 4.69	-	$ -					
			47	80%	-	-	$ 4.69	-	$ -					
			47	80%	-	-	$ 4.69	-	$ -					
	34,267	13,079			168	64		104	$ 486					

Bldg Contruction Office (38)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	2.65	1.60	3,474	3,474	9,205	5,558	$ 117	$ 71	3,647	$ 46
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks					-	-	$ -	$ -	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	2.00	0.70	1,403	1,403	2,806	982	$ 36	$ 12	1,824	$ 23
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers	2.25	2.25	70	70	158	158	$ 2	$ 2	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						12,169	6,697	$ 155	$ 85	5,471	$ 70

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	1,671	585	47	80%	8	3	$ 0.70	5	$ 4
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	104	104	47	80%	1	1	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
	1,775	689			9	3		5	$ 4

Westport Water Treatment (22)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	2.67	2.67	4,863	4,863	12,985	12,985	$ 165	$ 165	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings

City of Port St Lucie

Consumption Calculations

General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals	1.00	1.00	2,084	2,084	2,084	2,084	$ 27	$ 27	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks					-	-	$ -	$ -	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	2.33	2.33	2,806	2,806	6,537	6,537	$ 83	$ 83	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers	2.50	2.50	140	140	350	350	$ 4	$ 4	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						21,956	21,956	$ 279	$ 279	-	$ -

60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	3,894	3,894	47	80%	19	19	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	231	231	47	80%	1	1	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
	4,125	4,125			20	20		-	$ -

Oak Hammock Park

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	2.03	1.60	180	180	367	288	$ 5	$ 4	78	$ 1
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals	0.50	0.60	108	108	54	65	$ 1	$ 1	(11)	$ (0)
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	2.13	0.50	72	72	153	36	$ 2	$ 0	117	$ 1
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	91	21	47	80%	0	0	$ 0.70	0	$ 0
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 0.70	-	$ -

City of Port St Lucie

Consumption Calculations

	Laundry					-	-	$ -	$ -	-	$ -			47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -			47	80%	-	-	$ 0.70	-	$ -
	Water / Sewer Rate = $ 12.72 / 1000 Gallons					574	389	$ 7	$ 5	184	$ 2			91	21	0	0		0	$ 0

Turtle Run Park (17)

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	4.25	1.60	2,163	2,163	9,195	3,462	$ 117	$ 44	5,733	$ 73										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals					-	-	$ -	$ -	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks	1.00	0.50	541	541	541	270	$ 7	$ 3	270	$ 3	60%	322	161	47	80%	2	1	$ 0.70	1	$ 1
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Water / Sewer Rate = $ 12.72 / 1000 Gallons					9,736	3,732	$ 124	$ 47	6,004	$ 76			322	161	2	1		1	$ 1

Park and Rec Maint. (12)

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	4.00	2.10	5,031	5,031	20,126	10,566	$ 256	$ 134	9,560	$ 122										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals					-	-	$ -	$ -	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -

City of Port St Lucie

Consumption Calculations

General Use	Sinks					-	-	$ -	$ -	-	$ -										
Low Use	Sinks					-	-	$ -	$ -	-	$ -										
Staff Use	Sinks	1.77	0.83	1,792	1,792	3,166	1,494	$ 40	$ 19	1,673	$ 21	60%	1,886	890	47	80%	9	4	$ 4.69	5	$ 23
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Showers	3.00	3.00	70	70	210	210	$ 3	$ 3	-	$ -	66%	139	139	47	80%	1	1	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						23,502	12,270	$ 299	$ 156	11,232	$ 143		2,025	1,028			10	5		5	$ 23

Public Works Admin (6)

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	2.57	1.60	13,027	13,027	33,478	20,842	$ 426	$ 265	12,636	$ 161										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals					-	-	$ -	$ -	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals	1.19	0.75	7,816	7,816	9,281	5,862	$ 118	$ 75	3,419	$ 43										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Sinks	2.09	0.67	8,417	8,417	17,605	5,611	$ 224	$ 71	11,994	$ 153	60%	10,488	3,343	47	80%	51	16	$ 4.69	35	$ 164
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Showers	2.50	2.50	420	420	1,050	1,050	$ 13	$ 13	-	$ -	66%	693	693	47	80%	3	3	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						61,415	33,366	$ 781	$ 424	28,049	$ 357		11,181	4,035			55	20		35	$ 164

Dwyer Facility (39)

City of Port St Lucie

Consumption Calculations

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	1.60	1.60	3,254	3,254	5,207	5,207	$ 66	$ 66	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks					-	-	$ -	$ -	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	1.94	0.75	1,214	1,214	2,353	911	$ 30	$ 12	1,442	$ 18
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers	2.50	2.50	53	53	131	131	$ 2	$ 2	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						7,691	6,249	$ 98	$ 79	1,442	$ 18

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	1,402	543	47	80%	7	3	$ 4.69	4	$ 20
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	87	87	47	80%	0	0	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
	1,488	629			7	3		4	$ 20

Code Enforcement/Animal Control (24)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	1.60	1.60	998	998	1,597	1,597	$ 20	$ 20	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	3.20	2.60	7,830	7,830	25,057	20,359	$ 319	$ 259	4,698	$ 60
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	2.00	0.50	383	383	766	192	$ 10	$ 2	575	$ 7
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	2.50	0.75	3,160	3,160	7,900	2,370	$ 100	$ 30	5,530	$ 70
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	457	114	47	80%	2	1	$ 4.69	2	$ 8
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	4,706	1,412	47	80%	23	7	$ 4.69	16	$ 76
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -

City of Port St Lucie

Consumption Calculations

General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						35,320	24,518	$ 449	$ 312	10,803	$ 137		5,163	1,526			25	7		18	$ 83

Community Center (18)

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	2.26	1.60	78,806	78,806	177,751	126,090	$ 2,261	$ 1,604	51,662	$ 657										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	2.00	1.60	21,772	21,772	43,544	34,836	$ 554	$ 443	8,709	$ 111										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals	0.95	0.60	33,774	33,774	32,085	20,264	$ 408	$ 258	11,821	$ 150										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks	1.51	0.64	29,748	29,748	44,976	19,124	$ 572	$ 243	25,853	$ 329	60%	26,794	11,393	47	80%	131	56	$ 0.70	75	$ 53
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks	1.50	0.50	7,046	7,046	10,569	3,523	$ 134	$ 45	7,046	$ 90	60%	6,297	2,099	47	80%	31	10	$ 0.70	21	$ 14
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers	2.13	2.13	317,515	317,515	674,719	674,719	$ 8,582	$ 8,582	-	$ -	66%	445,027	445,027	47	80%	2,179	2,179	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers	2.00	2.00	36,213	36,213	72,426	72,426	$ 921	$ 921	-	$ -	66%	47,770	47,770	47	80%	234	234	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers	2.50	1.25	12,000	12,000	30,000	15,000	$ 382	$ 191	15,000	$ 191	70%	21,064	10,532	47	80%	103	52	$ 0.70	52	$ 36
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						1,086,071	965,981	$ 13,815	$ 12,287	120,090	$ 1,528		546,952	516,821			2,678	2,530		148	$ 103

Jaycee Park (10)

Water/Sewer Consumption					Thermal Energy Consumption		
Fixture Type and Volume	Fixture Utilization	Water/Sewer Consumption and Cost	Savings		Hot Water Use	Thermal Energy to Heat Water	Thermal Savings

City of Port St Lucie

Consumption Calculations

Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	5.00	1.60	727	727	3,635	1,163	$ 46	$ 15	2,472	$ 31										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals	1.50	0.75	312	312	467	234	$ 6	$ 3	234	$ 3										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks	1.00	0.50	260	260	260	130	$ 3	$ 2	130	$ 2	60%	155	77	47	80%	1	0	$ 0.70	0	$ 0
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						4,362	1,527	$ 55	$ 19	2,835	$ 36		155	77			1	0		0	$ 0

Girl Scout Park (15)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	2.50	1.60	6,490	6,490	16,226	10,385	$ 206	$ 132	5,841	$ 74
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	1.50	0.50	1,623	1,623	2,434	811	$ 31	$ 10	1,623	$ 21
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	1,450	483	47	80%	7	2	$ 0.70	5	$ 3
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -

City of Port St Lucie

Consumption Calculations

Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						18,660	11,196	$ 237	$ 142	7,464	$ 95		1,450	483			7	2		5	$ 3

Charles F Ray Park (28)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	2.67	1.60	4,868	4,868	12,981	7,788	$ 165	$ 99	5,192	$ 66
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals	0.75	0.60	2,921	2,921	2,191	1,752	$ 28	$ 22	438	$ 6
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	0.75	0.50	1,947	1,947	1,460	974	$ 19	$ 12	487	$ 6
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						16,632	10,514	$ 212	$ 134	6,117	$ 78

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	870	580	47	80%	4	3	$ 0.70	1	$ 1
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
870	580				4	3		1	$ 1

River Place Park

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	1.60	1.60			-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings

City of Port St Lucie

Consumption Calculations

General Use	Toilets					-	-	$ -	$ -	-	$ -											
Low Use	Toilets					-	-	$ -	$ -	-	$ -											
Staff Use	Toilets					-	-	$ -	$ -	-	$ -											
	Toilets					-	-	$ -	$ -	-	$ -											
	Toilets					-	-	$ -	$ -	-	$ -											
Public Use	Urinals	0.75	0.75			-	-	$ -	$ -	-	$ -											
General Use	Urinals					-	-	$ -	$ -	-	$ -											
Low Use	Urinals					-	-	$ -	$ -	-	$ -											
Staff Use	Urinals					-	-	$ -	$ -	-	$ -											
	Urinals					-	-	$ -	$ -	-	$ -											
	Urinals					-	-	$ -	$ -	-	$ -											
Public Use	Sinks	1.39	0.50			-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -	
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -	
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -	
Staff Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -	
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -	
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -	
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -	
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -	
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -	
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -	
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -	
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -	
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -											
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -											
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -											
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -											
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -											
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -	
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -	
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -	
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -	
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -	
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -	
	Water / Sewer Rate = $ 12.72 / 1000 Gallons					-	-	$ -	$ -	-	$ -		-	-			-	-		-	$ -	

Sportsman Park (4)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	2.84	1.85	34,255	34,255	97,198	63,372	$ 1,236	$ 806	33,827	$ 430
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals	1.08	0.75	20,553	20,553	22,266	15,415	$ 283	$ 196	6,851	$ 87
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	1.02	0.67	13,702	13,702	13,965	9,222	$ 178	$ 117	4,743	$ 60
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	8,320	5,494	47	80%	41	27	$ 0.70	14	$ 10
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -

City of Port St Lucie

Consumption Calculations

Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						133,429	88,009	$ 1,697	$ 1,119	45,421	$ 578

70%	0	0	47	80%	-	-	$ -	-	$ -								
70%	0	0	47	80%	-	-	$ -	-	$ -								
70%	0	0	47	80%	-	-	$ -	-	$ -								
			47	80%	-	-	$ 0.70	-	$ -								
			47	80%	-	-	$ 0.70	-	$ -								
			47	80%	-	-	$ 0.70	-	$ -								
	8,320	5,494			41	27		14	$ 10								

Swan Lake Park (7)

Water/Sewer Consumption												Thermal Energy Consumption								
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use		Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	2.80	2.80	19,183	19,183	53,712	53,712	$ 683	$ 683	-	$ -										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals	1.25	1.25	8,221	8,221	10,276	10,276	$ 131	$ 131	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks	1.38	1.38	6,851	6,851	9,420	9,420	$ 120	$ 120	-	$ -	60%	5,612	5,612	47	80%	27	27	$ 0.70	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						73,408	73,408	$ 934	$ 934	-	$ -		5,612	5,612			27	27		-	$ -

Rotary Park (9)

Water/Sewer Consumption												Thermal Energy Consumption								
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use		Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	2.05	1.60	144	144	296	231	$ 4	$ 3	65	$ 1										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals					-	-	$ -	$ -	-	$ -										

City of Port St Lucie

Consumption Calculations

General Use	Urinals					-	-	$ -	$ -	-	$ -									
Low Use	Urinals					-	-	$ -	$ -	-	$ -									
Staff Use	Urinals					-	-	$ -	$ -	-	$ -									
	Urinals					-	-	$ -	$ -	-	$ -									
	Urinals					-	-	$ -	$ -	-	$ -									
Public Use	Sinks	1.50	0.50	36	36	54	18	$ 1	$ 0	36	$ 0	60%	32	11	47	80%	0	0	$ 0.70	0	$ 0
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						350	249	$ 4	$ 3	101	$ 1		32	11			0	0		0	$ 0

Police Athletic Club (33)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	2.62	1.80	1,841	1,841	4,823	3,314	$ 61	$ 42	1,509	$ 19
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals	0.75	0.75	1,105	1,105	828	828	$ 11	$ 11	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks					-	-	$ -	$ -	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	1.67	0.67	870	870	1,450	580	$ 18	$ 7	870	$ 11
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	864	346	47	80%	4	2	$ 0.70	3	$ 2
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -

City of Port St Lucie

Consumption Calculations

	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Water / Sewer Rate = $ 12.72 / 1000 Gallons					7,101	4,722	$ 90	$ 60	2,379	$ 30		864	346			4	2		3	$ 2

Lyngate Park (5)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	2.41	1.98	15,957	15,957	38,497	31,516	$ 490	$ 401	6,981	$ 89
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals	1.00	0.65	9,574	9,574	9,574	6,223	$ 122	$ 79	3,351	$ 43
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	1.96	0.50	6,446	6,446	12,663	3,223	$ 161	$ 41	9,439	$ 120
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	2.00	1.50	70	70	140	105	$ 2	$ 1	35	$ 0
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
	Water / Sewer Rate = $ 12.72 / 1000 Gallons					60,875	41,068	$ 774	$ 522	19,807	$ 252

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	7,544	1,920	47	80%	37	9	$ 0.70	28	$ 19
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	84	63	47	80%	0	0	$ 0.70	0	$ 0
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
	7,627	1,983			37	10		28	$ 19

Veterans Memorial Park (61)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	1.60	1.60	72	72	115	115	$ 1	$ 1	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	0.50	0.50	18	18	9	9	$ 0	$ 0	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	5	5	47	80%	0	0	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -

City of Port St Lucie

Consumption Calculations

Staff Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						124	124	$ 2	$ 2	-	$ -		5	5			0	0		-	$ -

Vet. Park Rivergate (8)

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	3.60	2.20	12,322	12,322	44,358	27,108	$ 564	$ 345	17,250	$ 219										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals	0.75	0.50	5,281	5,281	3,961	2,640	$ 50	$ 34	1,320	$ 17										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks	1.58	0.50	4,668	4,668	7,391	2,334	$ 94	$ 30	5,057	$ 64	60%	4,403	1,390	47	80%	22	7	$ 0.70	15	$ 10
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						55,709	32,082	$ 709	$ 408	23,627	$ 301		4,403	1,390			22	7		15	$ 10

Sandhill Crane Park (13)

Water/Sewer Consumption				Thermal Energy Consumption		
Fixture Type and Volume	Fixture Utilization	Water/Sewer Consumption and Cost	Savings	Hot Water Use	Thermal Energy to Heat Water	Thermal Savings

City of Port St Lucie

Consumption Calculations

Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	2.51	1.60	21,238	21,238	53,289	33,981	$ 678	$ 432	19,307	$ 246										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	3.50	1.60	782	782	2,736	1,251	$ 35	$ 16	1,485	$ 19										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals	0.95	0.66	12,743	12,743	12,106	8,410	$ 154	$ 107	3,695	$ 47										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks	1.18	0.50	8,509	8,509	9,998	4,254	$ 127	$ 54	5,743	$ 73	60%	5,956	2,534	47	80%	29	12	$ 0.70	17	$ 12
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks	2.13	1.00	316	316	671	316	$ 9	$ 4	355	$ 5	60%	400	188	47	80%	2	1	$ 0.70	1	$ 1
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers	2.00	2.00	8,699	8,699	17,399	17,399	$ 221	$ 221	-	$ -	66%	11,476	11,476	47	80%	56	56	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers	3.00	3.00	16	16	47	47	$ 1	$ 1	-	$ -	66%	31	31	47	80%	0	0	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						96,244	65,658	$ 1,224	$ 835	30,586	$ 389		17,862	14,229			87	70		18	$ 12

Police Station East (52)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	2.25	1.60	1,766	1,766	3,973	2,825	$ 51	$ 36	1,148	$ 15
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks					-	-	$ -	$ -	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	1.76	0.90	709	709	1,247	638	$ 16	$ 8	609	$ 8
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers	2.50	2.50	35	35	88	88	$ 1	$ 1	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	743	380	47	80%	4	2	$ 4.69	2	$ 8
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	58	58	47	80%	0	0	$ 4.69	-	$ -

City of Port St Lucie

Consumption Calculations

	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Water / Sewer Rate = $ 12.72 / 1000 Gallons					5,308	3,550	$ 68	$ 45	1,757	$ 22		801	438			4	2		2	$ 8

Woodstock Trails

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	2.55	1.60	144	144	368	231	$ 5	$ 3	137	$ 2
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	0.75	0.50	36	36	27	18	$ 0	$ 0	9	$ 0
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
	Water / Sewer Rate = $ 12.72 / 1000 Gallons					395	249	$ 5	$ 3	146	$ 2

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	16	11	47	80%	0	0	$ 0.70	0	$ 0
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
					0	0		0	$ 0

Botanical Gardens (57)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	1.91	1.60	600	600	1,146	960	$ 15	$ 12	186	$ 2
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings

City of Port St Lucie

Consumption Calculations

Staff Use	Toilets	2.25	2.60	722	722	1,625	1,878	$ 21	$ 24	(253)	$ (3)									
	Toilets					-	-	$ -	$ -	-	$ -									
	Toilets					-	-	$ -	$ -	-	$ -									
Public Use	Urinals	0.50	0.75	257	257	129	193	$ 2	$ 2	(64)	$ (1)									
General Use	Urinals					-	-	$ -	$ -	-	$ -									
Low Use	Urinals					-	-	$ -	$ -	-	$ -									
Staff Use	Urinals					-	-	$ -	$ -	-	$ -									
	Urinals					-	-	$ -	$ -	-	$ -									
	Urinals					-	-	$ -	$ -	-	$ -									
Public Use	Sinks	1.90	0.50	248	248	471	124	$ 6	$ 2	347	$ 4	60%	280	74	47	80%	1	0	$ 0.70	1	$ 1
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks	2.00	0.50	281	281	562	140	$ 7	$ 2	421	$ 5	60%	335	84	47	80%	2	0	$ 0.70	1	$ 1
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers	2.50	2.50	18	18	44	44	$ 1	$ 1	-	$ -	66%	29	29	47	80%	0	0	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						3,976	3,339	$ 51	$ 42	637	$ 8		644	186			3	1		2	$ 2

Saints Golf (26)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	1.84	1.60	18,069	18,069	33,246	28,910	$ 423	$ 368	4,336	$ 55
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	1.60	1.60	10,160	10,160	16,255	16,255	$ 207	$ 207	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals	1.00	0.60	10,841	10,841	10,841	6,505	$ 138	$ 83	4,336	$ 55
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	1.47	0.50	8,430	8,430	12,381	4,215	$ 157	$ 54	8,166	$ 104
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	2.50	0.67	3,742	3,742	9,356	2,495	$ 119	$ 32	6,861	$ 87
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers	2.50	2.50	5,906	5,906	14,766	14,766	$ 188	$ 188	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	7,376	2,511	47	80%	36	12	$ 0.70	24	$ 17
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	5,574	1,486	47	80%	27	7	$ 0.70	20	$ 14
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	9,739	9,739	47	80%	48	48	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -

City of Port St Lucie

Consumption Calculations

	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -

70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -

Water / Sewer Rate = $ 12.72 / 1000 Gallons

96,845	73,145	$ 1,232	$ 930	23,700	$ 301

22,689	13,736			111	67	44	$ 31

Fred Cook Park

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	1.93	1.60	144	144	278	231	$ 4	$ 3	47	$ 1
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	0.75	0.50	36	36	27	18	$ 0	$ 0	9	$ 0
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	16	11	47	80%	0	0	$ 0.70	0	$ 0
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -

Water / Sewer Rate = $ 12.72 / 1000 Gallons

305	249	$ 4	$ 3	56	$ 1

16	11	0	0	0	$ 0

Elks Park

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	2.63	1.60	144	144	379	231	$ 5	$ 3	148	$ 2
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings

City of Port St Lucie

Consumption Calculations

	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	1.25	0.50	36	36	45	18	$ 1	$ 0	27	$ 0
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						424	249	$ 5	$ 3	175	$ 2

60%	27	11	47	80%	0	0	$ 0.70	0	$ 0						
60%	0	0	47	80%	-	-	$ 0.70	-	$ -						
60%	0	0	47	80%	-	-	$ 0.70	-	$ -						
60%	0	0	47	80%	-	-	$ 0.70	-	$ -						
60%	0	0	47	80%	-	-	$ 0.70	-	$ -						
60%	0	0	47	80%	-	-	$ 0.70	-	$ -						
66%	0	0	47	80%	-	-	$ 0.70	-	$ -						
66%	0	0	47	80%	-	-	$ 0.70	-	$ -						
66%	0	0	47	80%	-	-	$ 0.70	-	$ -						
66%	0	0	47	80%	-	-	$ 0.70	-	$ -						
66%	0	0	47	80%	-	-	$ 0.70	-	$ -						
66%	0	0	47	80%	-	-	$ 0.70	-	$ -						
70%	0	0	47	80%	-	-	$ -	-	$ -						
70%	0	0	47	80%	-	-	$ -	-	$ -						
70%	0	0	47	80%	-	-	$ -	-	$ -						
			47	80%	-	-	$ 0.70	-	$ -						
			47	80%	-	-	$ 0.70	-	$ -						
			47	80%	-	-	$ 0.70	-	$ -						
	27	11			0	0		0	$ 0						

Boys and Girls Club (40)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	3.25	3.25	5,355	5,355	17,403	17,403	$ 221	$ 221	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks					-	-	$ -	$ -	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	1.63	1.63	2,140	2,140	3,478	3,478	$ 44	$ 44	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	2,072	2,072	47	80%	10	10	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -

City of Port St Lucie

Consumption Calculations

Water / Sewer Rate = $ 12.72 / 1000 Gallons

				20,881	20,881	$ 266	$ 266	-	$ -	2,072	2,072		10	10	-	$ -	

Jessica Clinton (31)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	2.12	1.80	9,014	9,014	19,111	16,226	$ 243	$ 206	2,885	$ 37
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals	2.25	0.60	5,409	5,409	12,169	3,245	$ 155	$ 41	8,924	$ 114
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	0.81	0.50	3,606	3,606	2,905	1,803	$ 37	$ 23	1,102	$ 14
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers	2.00	2.00	4,970	4,970	9,940	9,940	$ 126	$ 126	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	1,730	1,074	47	80%	8	5	$ 4.69	3	$ 15
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	6,556	6,556	47	80%	32	32	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
			47	80%	-	-	$ 4.69	-	$ -

Water / Sewer Rate = $ 12.72 / 1000 Gallons

				44,125	31,214	$ 561	$ 397	12,911	$ 164	8,287	7,630		41	37	3	$ 15	

Railroad club (32)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	2.25	2.25	889	889	2,000	2,000	$ 25	$ 25	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks					-	-	$ -	$ -	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	1.50	1.50	356	356	534	534	$ 7	$ 7	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	318	318	47	80%	2	2	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -

City of Port St Lucie

Consumption Calculations

	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						2,533	2,533	$ 32	$ 32	-	$ -		318	318			2	2		-	$ -

Prineville Treatment Plant (19)

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	2.25	2.25	6,681	6,681	15,059	15,059	$ 192	$ 192	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals					-	-	$ -	$ -	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals	0.69	0.69	2,863	2,863	1,968	1,968	$ 25	$ 25	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks	1.48	1.48	3,455	3,455	5,100	5,100	$ 65	$ 65	-	$ -	60%	3,038	3,038	47	80%	15	15	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers	2.30	2.30	140	140	322	322	$ 4	$ 4	-	$ -	66%	212	212	47	80%	1	1	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						22,449	22,449	$ 286	$ 286	-	$ -		3,251	3,251			16	16		-	$ -

961 Ogden (55)

Water/Sewer Consumption			Thermal Energy Consumption		
Fixture Type and Volume	Fixture Utilization	Water/Sewer Consumption and Cost / Savings	Hot Water Use	Thermal Energy to Heat Water	Thermal Savings

City of Port St Lucie

Consumption Calculations

Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	2.00	2.00	5,211	5,211	10,421	10,421	$ 133	$ 133	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals					-	-	$ -	$ -	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Sinks	1.38	1.38	2,104	2,104	2,893	2,893	$ 37	$ 37	-	$ -	60%	1,724	1,724	47	80%	8	8	$ 4.69	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Showers	2.50	2.50	105	105	263	263	$ 3	$ 3	-	$ -	66%	173	173	47	80%	1	1	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						13,577	13,577	$ 173	$ 173	-	$ -		1,897	1,897			9	9		-	$ -

943 Ogden (42)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	2.25	2.25	2,605	2,605	5,862	5,862	$ 75	$ 75	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks					-	-	$ -	$ -	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	1.42	1.42	1,052	1,052	1,490	1,490	$ 19	$ 19	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers	2.50	2.50	53	53	131	131	$ 2	$ 2	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	888	888	47	80%	4	4	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	87	87	47	80%	0	0	$ 4.69	-	$ -

City of Port St Lucie

Consumption Calculations

	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Water / Sewer Rate = $ 12.72 / 1000 Gallons					7,484	7,484	$ 95	$ 95	-	$ -		975	975			5	5		-	$ -

915 Ogden (41)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	2.30	2.30	5,211	5,211	11,984	11,984	$ 152	$ 152	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks					-	-	$ -	$ -	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	2.08	2.08	2,104	2,104	4,384	4,384	$ 56	$ 56	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers	2.00	2.00	105	105	210	210	$ 3	$ 3	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -
	Water / Sewer Rate = $ 12.72 / 1000 Gallons					16,578	16,578	$ 211	$ 211	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	2,612	2,612	47	80%	13	13	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	139	139	47	80%	1	1	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
					13	13		-	$ -

Utilities (51)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings

City of Port St Lucie

Consumption Calculations

Staff Use	Toilets	4.25	4.25	5,211	5,211	22,145	22,145	$ 282	$ 282	-	$ -									
	Toilets					-	-	$ -	$ -	-	$ -									
	Toilets					-	-	$ -	$ -	-	$ -									
Public Use	Urinals					-	-	$ -	$ -	-	$ -									
General Use	Urinals					-	-	$ -	$ -	-	$ -									
Low Use	Urinals					-	-	$ -	$ -	-	$ -									
Staff Use	Urinals					-	-	$ -	$ -	-	$ -									
	Urinals					-	-	$ -	$ -	-	$ -									
	Urinals					-	-	$ -	$ -	-	$ -									
Public Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Sinks	1.58	1.58	2,104	2,104	3,332	3,332	$ 42	$ 42	-	$ -	60%	1,985	1,985	47	80%	10	10	$ 4.69	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Showers	2.50	2.50	105	105	263	263	$ 3	$ 3	-	$ -	66%	173	173	47	80%	1	1	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -									
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						25,739	25,739	$ 327	$ 327	-	$ -		2,158	2,158			11	11		-	$ -

329 Greenway Terr (48)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	1.80	1.80	130	130	234	234	$ 3	$ 3	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks					-	-	$ -	$ -	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	2.08	2.08	32	32	68	68	$ 1	$ 1	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers	2.50	2.50	25	25	62	62	$ 1	$ 1	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	40	40	47	80%	0	0	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	41	41	47	80%	0	0	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -

City of Port St Lucie

Consumption Calculations

	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -

70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
			47	80%	-	-	$ 4.69	-	$ -

Water / Sewer Rate = $ 12.72 / 1000 Gallons

		363	363	$ 5	$ 5	-	$ -

		81	81			0	0		-	$ -

325 Greenway Terr. (54)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	2.38	2.38	868	868	2,063	2,063	$ 26	$ 26	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks					-	-	$ -	$ -	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks	2.00	2.00	351	351	701	701	$ 9	$ 9	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers	2.50	2.50	18	18	44	44	$ 1	$ 1	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	418	418	47	80%	2	2	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
60%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	29	29	47	80%	0	0	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
66%	0	0	47	80%	-	-	$ 4.69	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
			47	80%	-	-	$ 4.69	-	$ -
			47	80%	-	-	$ 4.69	-	$ -

Water / Sewer Rate = $ 12.72 / 1000 Gallons

		2,808	2,808	$ 36	$ 36	-	$ -

		447	447			2	2		-	$ -

301 Greenway Terr (46)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets	3.50	3.50	5,211	5,211	18,237	18,237	$ 232	$ 232	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings

City of Port St Lucie

Consumption Calculations

	Urinals					-	-	$ -	$ -	-	$ -											
	Urinals					-	-	$ -	$ -	-	$ -											
Public Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -	
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -	
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -	
Staff Use	Sinks	2.08	2.08	2,104	2,104	4,366	4,366	$ 56	$ 56	-	$ -	60%	2,601	2,601	47	80%	13	13	$ 4.69	-	$ -	
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -	
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -	
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -	
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -	
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -	
Staff Use	Showers	2.50	2.50	105	105	263	263	$ 3	$ 3	-	$ -	66%	173	173	47	80%	1	1	$ 4.69	-	$ -	
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -	
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -	
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -											
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -											
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -											
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -											
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -											
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -	
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -	
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -	
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -	
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -	
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -	
Water / Sewer Rate = $ 12.72 / 1000 Gallons						22,866	22,866	$ 291	$ 291	-	$ -		2,774	2,774			14	14		-	$ -	

Kiwanis Park (11)

Water/Sewer Consumption

Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings	
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings
Public Use	Toilets	3.00	1.60	14,423	14,423	43,269	23,077	$ 550	$ 294	20,192	$ 257
General Use	Toilets					-	-	$ -	$ -	-	$ -
Low Use	Toilets					-	-	$ -	$ -	-	$ -
Staff Use	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
	Toilets					-	-	$ -	$ -	-	$ -
Public Use	Urinals					-	-	$ -	$ -	-	$ -
General Use	Urinals					-	-	$ -	$ -	-	$ -
Low Use	Urinals					-	-	$ -	$ -	-	$ -
Staff Use	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
	Urinals					-	-	$ -	$ -	-	$ -
Public Use	Sinks	0.50	0.50	3,606	3,606	1,803	1,803	$ 23	$ 23	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
	Showers					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -

Thermal Energy Consumption

Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
60%	1,074	1,074	47	80%	5	5	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
60%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
66%	0	0	47	80%	-	-	$ 0.70	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
70%	0	0	47	80%	-	-	$ -	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -
			47	80%	-	-	$ 0.70	-	$ -

City of Port St Lucie

Consumption Calculations

Water / Sewer Rate = $ 12.72 / 1000 Gallons

						45,072	24,880	$ 573	$ 316	20,192	$ 257		1,074	1,074		5	5		-	$ -

James Anderson Water Treatment (27)

Water/Sewer Consumption												Thermal Energy Consumption								
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water			Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	2.17	2.17	4,342	4,342	9,408	9,408	$ 120	$ 120	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals					-	-	$ -	$ -	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals	1.00	1.00	2,605	2,605	2,605	2,605	$ 33	$ 33	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Sinks	1.35	1.35	2,806	2,806	3,788	3,788	$ 48	$ 48	-	$ -	60%	2,256	2,256	47	80%	11	11	$ 4.69	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Showers	2.00	2.00	140	140	280	280	$ 4	$ 4	-	$ -	66%	185	185	47	80%	1	1	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -

Water / Sewer Rate = $ 12.72 / 1000 Gallons

						16,081	16,081	$ 205	$ 205	-	$ -		2,441	2,441		12	12		-	$ -

Glades waste water (45)

Water/Sewer Consumption												Thermal Energy Consumption								
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water			Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets	2.33	2.33	3,257	3,257	7,572	7,572	$ 96	$ 96	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals					-	-	$ -	$ -	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals	0.83	0.83	1,954	1,954	1,628	1,628	$ 21	$ 21	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Sinks	1.85	1.85	2,104	2,104	3,885	3,885	$ 49	$ 49	-	$ -	60%	2,314	2,314	47	80%	11	11	$ 4.69	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -

City of Port St Lucie

Consumption Calculations

	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 4.69	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Staff Use	Showers	2.80	2.80	105	105	294	294	$ 4	$ 4	-	$ -	66%	194	194	47	80%	1	1	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 4.69	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 4.69	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						13,379	13,379	$ 170	$ 170	-	$ -		2,508	2,508			12	12		-	$ -

McChesney Park (16)

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	4.00	2.10	901	901	3,606	1,893	$ 46	$ 24	1,713	$ 22										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals	0.88	0.75	541	541	473	406	$ 6	$ 5	68	$ 1										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks	1.38	0.50	361	361	496	180	$ 6	$ 2	316	$ 4	60%	295	107	47	80%	1	1	$ 0.70	1	$ 1
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						4,575	2,479	$ 58	$ 32	2,096	$ 27		295	107			1	1		1	$ 1

Sportsman Park West (2)

Water/Sewer Consumption			Thermal Energy Consumption		
Fixture Type and Volume	Fixture Utilization	Water/Sewer Consumption and Cost	Savings	Hot Water Use	Thermal Energy to Heat Water	Thermal Savings

City of Port St Lucie

Consumption Calculations

Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets	2.13	1.98	505	505	1,073	997	$ 14	$ 13	76	$ 1										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals	1.00	0.60	216	216	216	130	$ 3	$ 2	87	$ 1										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks	1.59	0.50	180	180	287	90	$ 4	$ 1	197	$ 3	60%	171	54	47	80%	1	0	$ 0.70	1	$ 0
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
Water / Sewer Rate = $ 12.72 / 1000 Gallons						1,576	1,217	$ 20	$ 15	359	$ 5		171	54			1	0		1	$ 0

Building X

Water/Sewer Consumption												Thermal Energy Consumption									
Fixture Type and Volume				Fixture Utilization		Water/Sewer Consumption and Cost				Savings		Hot Water Use			Thermal Energy to Heat Water				Thermal Savings		
Restroom Category	Fixture Description	Pre-Retrofit Flow	Post Retrofit Flow	Pre-Retrofit Annual Utilization (flushes or minutes)	Post-Retrofit Annual Utilization (flushes or minutes)	Pre-Retrofit Water Use (Gallons)	Post-Retrofit Water Use (Gallons)	Pre-Retrofit Water Cost	Post-Retrofit Cost	Water Use Savings	Water Cost Savings	Percent of Water Use that is Hot Water	Pre-Retrofit Hot Water Use	Retrofit Hot Water Use	Water Heater Delta T (deg F)	Heating System Efficiency	Pre-Retrofit Thermal Energy (therms)	Retrofit Thermal Energy (therms)	Cost per Therm of Energy	Thermal Savings (therms)	Thermal Cost Savings
Public Use	Toilets					-	-	$ -	$ -	-	$ -										
General Use	Toilets					-	-	$ -	$ -	-	$ -										
Low Use	Toilets					-	-	$ -	$ -	-	$ -										
Staff Use	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
	Toilets					-	-	$ -	$ -	-	$ -										
Public Use	Urinals					-	-	$ -	$ -	-	$ -										
General Use	Urinals					-	-	$ -	$ -	-	$ -										
Low Use	Urinals					-	-	$ -	$ -	-	$ -										
Staff Use	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
	Urinals					-	-	$ -	$ -	-	$ -										
Public Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Sinks					-	-	$ -	$ -	-	$ -	60%	0	0	47	80%	-	-	$ 0.70	-	$ -
Public Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
General Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Low Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Staff Use	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -

City of Port St Lucie

Consumption Calculations

	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
	Showers					-	-	$ -	$ -	-	$ -	66%	0	0	47	80%	-	-	$ 0.70	-	$ -
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
Hi Use	CONRUN Urinals					-	-	$ -	$ -	-	$ -										
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Kitchen Sprayers					-	-	$ -	$ -	-	$ -	70%	0	0	47	80%	-	-	$ -	-	$ -
	Deduct Meters					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Laundry					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Other Savings					-	-	$ -	$ -	-	$ -				47	80%	-	-	$ 0.70	-	$ -
	Water / Sewer Rate = $ 12.72 / 1000 Gallons					-	-	$ -	$ -	-	$ -		-	-			-	-		-	$ -

Occupant Type	Standards for 8 Hour Day			Shower Standards per Day			
	Flushes	Lav Sink	Gen Sink	Bldg Type 1	Bldg Type 2	Bldg Type 3	Bldg Type 4
Students	2.29	0.57	0.10	7.00	7.00	7.00	7.00
Teachers	3.25	0.81	0.50	7.00	7.00	7.00	7.00
Staff	3.25	0.81	0.50	7.00	7.00	7.00	7.00
Sports Team Member	1.63	0.41	0.00	7.00	7.00	7.00	7.00
Regular Visitors	3.25	0.81	0.00	7.00	7.00	7.00	7.00
Event Visitors	1.63	0.41	0.00	7.00	7.00	7.00	7.00
Rec Visitors	1.63	0.41	0.00	7.00	7.00	7.00	7.00

Building Envelope Improvements

Port St. Lucie Infiltration Savings

	Number of Stories	Equivalent Crack Area (SqFt)	Cooling Energy Savings (kWh/year/sqft)	Heating Energy Savings (kWh/year/sqft)	Total Energy Savings (kWh/year)	Total Energy Savings (kWh/year)	Retrofit Cooling Savings ($)	Retrofit Heating Savings ($)	Total Savings Per Year
City Hall Bld A	3	49	808	59.58	39,613	2,922	$3,208.65	$236.69	$3,445.34
City Hall Bld B	2	49	727	52.50	35,571	2,569	$3,521.55	$254.37	$3,775.92
Community Center*	2	9.84	727	52.50	7,155	517	$615.34	$44.45	$659.79
Civic Center*	3	187	808	59.58	150,845	11,127	$10,106.65	$745.54	$10,852.19
Whispering Pines	1	48	612	42.83	29,416	2,060	$2,853.33	$199.77	$3,053.10
P.A.L. Building	1	4	612	42.83	2,619	183	$350.91	$24.57	$375.47
Saint Golf Course	1	12	612	42.83	7,569	530	$779.64	$54.59	$834.23
TOTALS		359					$21,436.06	$1,559.98	$22,996.04

kWh/year Calculation Table	1-Story Occ/Un-occ Schedule	*1-Story 24 Hour Operation*	2-Story Occ/Un-occ Schedule	3-Story Occ/Un-occ Schedule	4-Story Occ/Un-occ Schedule	5-Story Occ/Un-occ Schedule	6-Story Occ/Un-occ Schedule	Units
Calculation - Occupied Period								
AL = Effective air leakage area from survey, in2	1.00	1.00	1.00	1.00	1.00	1.00	1.00	ft2
Air leakage from survey, in^2 = (144 * 1 ft^2):	144	144	144	144	144	144	144	in2
Selected Basic Model Stack Coefficient CS	0.0150	0.0150	0.0299	0.0449	0.0628	0.0786	0.0943	cfm^2/(in^4*mph^2)
Selected Basic Model Wind Coefficient CW	0.0065	0.0065	0.0086	0.0101	0.0120	0.0138	0.0156	cfm^2/(in^4*mph^2)
Indoor temperature (Cooling Setpoint)	74	74	74	74	74	74	74	°F
Indoor Enthalpy at 74° F and 60% RH, pyschrometric chart	29.513	29.513	29.513	29.513	29.513	29.513	29.513	Btu/lb (air)
Indoor temperature (Heating Setpoint)	68	68	68	68	68	68	68	°F
Indoor Enthalpy at 68° F and 60% RH, pyschrometric chart	25.85	25.85	25.85	25.85	25.85	25.85	25.85	Btu/lb (air)
Cooling Btus from Weather Table	3,774,002	9,870,846	4,514,951	5,041,706	5,623,244	6,107,885	6,556,606	Btu
Cooling ton-hours (2,643,316 Btu / 12,000 Btu/ton):	315	823	376	420	469	509	546	ton-hours
Heating MMBtu from Weather Table	0.07	0.76	0.09	0.10	0.11	0.12	0.13	MMBtu
Cooling Plant efficieny	1.2	1.2	1.2	1.2	1.2	1.2	1.2	kW/ton
Heating Plant efficiency (COP)	3.00	3.00	3.00	3.00	3.00	3.00	3.00	per cent
Cooling Energy Savings (315 ton-hours * 1.20 kW/ton):	377	987	451	504	562	611	656	kWh/yr
Heating Energy Savings (MMBtu / 1 COP):	0.02	0.25	0.03	0.03	0.04	0.04	0.04	MMBtu
Heating Energy Savings (*1,000,000 Btu/MMBtu / 3414 Btu/kWh)	7.23	74.10	8.57	9.51	10.55	11.43	12.25	MMBtu
Calculation - Un-occupied Period								
AL = Effective air leakage area from survey, in^2	1.00	N/A	1.00	1.00	1.00	1.00	1.00	ft2
Air leakage from survey, in^2 = (144 * 1 ft^2):	144	N/A	144	144	144	144	144	in2
Selected Basic Model Stack Coefficient CS	0.0150	N/A	0.0299	0.0449	0.0628	0.0786	0.0943	cfm^2/(in^4*mph^2)
Selected Basic Model Wind Coefficient CW	0.0065	N/A	0.0086	0.0101	0.0120	0.0138	0.0156	cfm^2/(in^4*mph^2)
Indoor temperature (Cooling Setpoint)	79	N/A	79	79	79	79	79	°F
Indoor Enthalpy at 79° F and 60% RH, pyschrometric chart	32.906	N/A	32.906	32.906	32.906	32.906	32.906	Btu/lb (air)
Indoor temperature (Heating Setpoint)	63	N/A	63	63	63	63	63	°F
Indoor Enthalpy at 63° F and 60% RH, pyschrometric chart	23.096	N/A	23.096	23.096	23.096	23.096	23.096	Btu/lb (air)
Cooling Btus from Weather Table	2,342,656	N/A	2,753,749	3,035,695	3,353,608	3,623,696	3,874,934	Btu
Cooling ton-hours (186,394 Btu / 12000 Btu/ton):	195	N/A	229	253	279	302	323	ton-hours
Heating MMBtu from Weather Table	0.36	N/A	0.45	0.51	0.58	0.63	0.69	MMBtu
Cooling Plant efficieny	1.2	N/A	1.2	1.2	1.2	1.2	1.2	kW/ton
Heating Plant efficiency (COP)	3.00	N/A	3.00	3.00	3.00	3.00	3.00	per cent
Cooling Energy Savings (195 ton-hours * 1.20 kW/ton):	234	N/A	275	304	335	362	387	kWh/yr
Heating Energy Savings (MMBtu / 1 COP):	0.12	N/A	0.15	0.17	0.19	0.21	0.23	
Heating Energy Savings (*1,000,000 Btu/MMBtu / 3414 Btu/kWh)	35.60	N/A	43.93	50.08	56.66	62.00	66.91	MMBtu
Total Energy Savings								
Total Cooling kWh Savings per Year	**612**	**987**	**727**	**808**	**898**	**973**	**1,043**	kWh/yr
Total Heating MMBTu Savings per Year	42.8	74.1	52.5	59.6	67.2	73.4	79.2	kWh/yr

ASHRAE TABLE 16.23, Table 4 Basic Model Stack Coefficient C_S

Story	Stack Coefficient C_S
1	0.01500
2	0.02990
3	0.04490
4	0.06283
5	0.07858
6	0.09433
7	0.11008
8	0.12583
9	0.14158
10	0.15733

ASHRAE TABLE 16.23, Table 5 Local Shelter Class

1 No Obstructions or local shielding
2 Typical shelter for an isolated rural house
3 Typical shelter used by other buildings across the street from building under study
4 Typical shelter for an urban buildings on larger lots where sheltering obstacles are more than one building height away
5 Typical shelter produced by building or other structures immediately adjacent

ASHRAE TABLE 16.23, Table 6 Basic Model Wind Coefficient C_W

# of Stories	Shelter Class 1	Shelter Class 2	Shelter Class 3	Shelter Class 4	Shelter Class 5
1	0.0119	0.0092	0.0065	0.0039	0.0012
2	0.0157	0.0121	0.0086	0.0051	0.0016
3	0.0184	0.0143	0.0101	0.0060	0.0018
4	0.0218	0.0170	0.0120	0.0071	0.0021
5	0.0251	0.0195	0.0138	0.0082	0.0024
6	0.0283	0.0221	0.0156	0.0092	0.0027
7	0.0316	0.0246	0.0174	0.0103	0.0030
8	0.0348	0.0272	0.0192	0.0113	0.0033
9	0.0381	0.0297	0.0210	0.0124	0.0036
10	0.0413	0.0323	0.0228	0.0134	0.0039

aess applied energy savings systems	QTY	UNIT	WIDTH	SF	COMMENTS
ENVELOPE					
Wall/Floor Joints	56.17	ft.	0.0625	3.51	(172") 2nd, (172") 3rd-Rm 350, (330") 3rd - Rm 342
Mechanical room penetrations	55	num	0.0625	7	(9) 1st, (13) 2nd, (10+13) 3rd
Ventilation duct perimeters (seal)	16	ft.	0.0625	1	(8') 1st, (8') 2nd
SHAFTS AND OTHER P/P					
Roof hatches and exhausts	1	num	0.015625	0	Above drop ceiling in room 322
EXTERIOR DOORS					
Weatherstripping-per door	26	num	0.0625	27.6	
Door Sweeps	26	num	0.0625	4.88	
INTERIOR DOORS					
Weatherstripping-per door	4	num	0.0625	4.3	see drawings
Door Sweeps	4	num	0.0625	0.75	see drawings
	Area of "Hole"/sqft			49.04	

aess applied energy savings systems	QTY	UNIT	WIDTH	SF	COMMENTS
ENVELOPE					
Roof/Wall Joints	624	ft.	0.03125	20	596 lf around perimeter (4-5' high plenum above drop ceiling, will require some grid work), 31lf in M.I.S. dedicated HVAC requires compartmentalization
Attic or roof penetrations, 1'x1'	2	num	0.0625	0.50	
Attic or roof penetrations, 2'x2'	4	num	0.06250	2	
Attic or roof penetrations, 3'x3'	5	num	0.0625	3	
Plumbing/electrical bus bar conduits	12	num	0.0625	2	(12) in M.I.S. room,
SHAFTS AND OTHER P/P					
Roof hatches and exhausts	1	num	0.03125	0	Room 218
EXTERIOR DOORS					
Weatherstripping-per door 1st Floor	15	num	0.0625	15.9	(9) Single Steel around perimeter first floor, (1) double commercial steel (71"x84"), (1) Single Wood Commercial in M.I.S.Room, (2) Double Glass Commercial Doors to each main entrance
Door Sweeps	15	num	0.0625	2	(9) Single Steel around perimeter first floor, (1) double commercial steel (71"x84"), (1) Single Wood Commercial in M.I.S.Room, (2) Double Glass Commercial Doors to each main entrance
INTERIOR DOORS					
Weatherstripping-per door	3	num	0.0625	3.2	(1) Single Wood Commercial in M.I.S., (2) Single Steel Commercial Doors 36"x71"
Caulking	40	ft.	0.03125	1	20 lf around door frame in EACH M.I.S. room,
Door Sweeps	3	num	0.0625	0	
	Area of "Hole"/sqft			49	

aess applied energy savings systems	QTY	UNIT	WIDTH	SF	COMMENTS
ENVELOPE					
Wall floor/ joints	**53**	ft.	0.0625	3	Use Fire retardant in Mech Room
EXTERIOR DOORS					
Weatherstripping-per door	10	num	0.03125	5.31	See drawings
Door Sweeps	10	num	0.03125	1	
INTERIOR DOORS					
Weatherstripping-per door	1	num	0.03125	0.5	See drawings
Door Sweeps	**1**	num	0.03125	0.1	
	Area of "Hole"/sqft			9.84	

aess applied energy savings systems	QTY	UNIT	WIDTH	SF	COMMENTS
ENVELOPE					
Roof/Wall Joints	1675	ft.	0.0625	105	Very High and need to shoot over drywall boarder. Single Man Lift Upto 30 ft. May need fire retardant coating
Attic or roof penetrations, 1'x1'	1	num	0.0625	0.25	
Attic or roof penetrations, 2'x2'	7.0	num	0.0625	4	
Attic or roof penetrations, 3'x3'	7.0	num	0.0625	4	
EXTERIOR DOORS					
Weatherstripping-per door	63	num	0.0625	66.9	
Door Sweeps	63	num	0.0625	8	
	Area of "Hole"/sqft			187	

aess applied energy savings systems	QTY	UNIT	WIDTH	SF	COMMENTS
ENVELOPE					
Wall/wall joint	2666	ft.	0.015625	42	Need Lift
EXTERIOR DOORS					
Weatherstripping-per door	6	num	0.06125	6.2	
Caulking	6	ft.	0.03125	0.2	
	Area of "Hole"/sqft			48	

aess applied energy savings systems	QTY	UNIT	WIDTH	SF	COMMENTS
ENVELOPE					
Vent housings Cover	4	num	0.03125	0.13	Need ladder to reach wood covers from inside
EXTERIOR DOORS					
Weatherstripping-per door	7	num	0.03125	3.7	
Door Sweeps	7	num	0.03125	0.44	
	Area of "Hole"/sqft			4.28	

aess applied energy savings systems	QTY	UNIT	WIDTH	SF	COMMENTS
ENVELOPE					
Wall/Ceiling Joints	272	ft.	0.03125	8.5	Only above men room between restaurant and proshop doesn't need foam
EXTERIOR DOORS					
Door Sweeps	12	num	0.0625	2	
INTERIOR DOORS					
Weatherstripping-per door	2	num	0.0625	2.1	Door Seperating Kitchen and dry storage. (Room with garage door)
Door Sweeps	2	num	0.0625	0	
	Area of "Hole"/sqft			12	