

CAPITAL CIRCLE OFFICE CENTER 2540 SHUMARD OAK BOULEVARD TALLAHASSEE, FL 32399-0850

5

ço

 $\sim$ 

COMMISSIONERS: RONALD A. BRISÉ, CHAIRMAN LISA POLAK EDGAR 12 JUL 10 AM 10: 20 ART GRAHAM EDUARDO E. BALBIS COMMISSION JULIE I. BROWN

CLERK



# Hublic Service Commission

June 15, 2012

Mr. Thad A. Terry TKCB 5600 North Cocoa Blvd. Cocoa, FL 32927

### Re: Docket No. 120078-SU; Application for staff-assisted rate case in Brevard County by TKCB.

Dear Mr. Terry:

This letter is to inform you regarding my planned engineering field investigation on October 11, 2012. In order to ensure fast, expedient treatment of your rate case, please submit the following information for the period of May 1, 2011 to April 30, 2012 (test year) to the Commission on or before July 13, 2012.

- 71. A copy of the Department of Environmental Protection (DEP) permit for the wastewater treatment plant.
- $\prec$  2. A copy of all Discharge Monitoring Reports (DMR) filed with the DEP for the period beginning in May 1, 2011 through April 30, 2012.
- $\preceq$  3. A copy of all wastewater treatment plant flow measuring device calibration reports for the past three years.
- $\sim$  4. A copy of all correspondence, inspection reports, sanitary survey, notices of violation, or consent orders from DEP in the past three years.
- $\frown$  5. A copy of the company's last DEP Capacity Analysis Report.
- non  $\uparrow$  6. A list of all customer complaints received during the past three years and an explanation of how each was resolved.
- 5 7. A description of any planned or future expansion of your service area. NK
- 3+8 A description of any plant additions or repairs that have been made in the past year along with the cost and reason for the addition or repair. If the additions or repairs are in response to a DEP or health department compliance requirement, provide a copy of the supporting documentation.

<+9 A description of any plant additions or repairs that are expected to be made in the next year, along with the estimated cost and reason for the addition or repair. If you would like the Commission to consider the cost of the addition or repair in this rate case, include at least 2 bids to support the estimated cost of the addition or repair. If the additions or repairs are in response to a DEP or health department compliance requirement, provide a copy of the supporting documentation.

-PSC-COMMISSION CLERK

15

0

ص

G

ഗ . 3 Mr. Thad A. Terry June 14, 2012 Page 2

510. A list of all general service customers and their type of businesses.

P 11. A list of the number of active customers for the past five years.

- 512. The installation date and description of the new flow meter.  $\mathcal{M}\mathcal{W}$  [ $\sigma \mathcal{W}$ ]
- $\bigcirc$  13. During the test year a copy of all utility related electricity bills. The bills should include meter numbers, location of meters, kilowatts used, and the total cost.
- 7 14. During the test year a copy of all bills for chemicals used in the treatment of wastewater. The bills should include the type and amount of chemicals purchased and the total cost.
- 5<sup>4</sup>15. During the test year a copy of all bills for purchased parts, materials, and supplies used in the operation and maintenance of the wastewater system.
- $\mathcal{P}$  16. During the test year a copy of all bills for removal of sludge if such work is performed by persons other than owners, stockholders, and employees of the utility. The bills should include the amount of sludge hauled and the total cost.
- $\sim$  17. During the test year a copy of all bills for contractual services and a copy of the contract with an explanation of the type of work performed and its associated cost.

Please submit the requested information on or before July 13, 2012, to the Office of Commission Clerk, Docket No. 120078-SU, Florida Public Service Commission, 2540 Shumard Oak Blvd., Tallahassee, Florida 32399-0850. If you have already provided of the requested information to the Staff Auditor, please let me know.

On October 11, 2012, I will inspect the wastewater treatment plant, the collection system, and the general service area. Please have someone (lead operator, chief maintenance person, or an assigned person with access to the plant) available for this tour. If you have any questions, do not hesitate to contact me at (850) 413-6934.

Sincefely,

James E. McRoy Utility System Engineering Specialist Bureau of Certification, Economics & Tariff

JEM:

cc: Division of Economic Regulation (Hudson, Bruce, Stallcup, Fletcher, Maurey, Daniel)
 Office of General Counsel (Tan, Teitzman)
 Office of Commission Clerk (Docket No. 120078-SU)

Oct	06 2011	3:57PM	LOCKE WE	LL & PUMP	_COMPANY	407 578 1	840	P.1
Sector and the sector of the s				State of the second states of	Lange and the second second		Invoic	e
	o Che e			<b>PELING (UN</b> Pers and Service S			Date	Invoice#
31	685 OLD	WINTER GA	RDEN ROA	D		11	y6/2011	0007982 <del>9</del>
	OR	LANDO, FL	32805	<u></u>	(			
	Bill To				Ship Te	) 		
	Aerobic Bion	iass Clarifying			H		63	
P.O. I	Vumber	Terms	Rap	Due Date	Via			
		Credit Card Pay	ment GL	10/6/2011	Customer P/UP			
Quantity	ite	m Code		Description	······································	Price Each	Serial #	Amount
2 1 1	Service Non Service Non Freight SVC	Stock Stock	2WD52D1CA - A4-4 Seal Safe	3/4 HP 1/60/230 5.3	i8" 9.4MA	1,058.85 299.00 0.01		2,117 /01 299 00T 0.01
	P	19	Sign Turne 10: Sec Furne 10: Sec F XTXXAAXIAN MSTERCARD Anount: Tax: Total: 10/05/11 Inv #: 0000 Apprud: Onl. AVS Code: CVV2 Code:	COCKE HELL AND PLAP AND: HELL AND PLAP (LD HINTER GARDEN ROAL AND: FL 32005-1056 997-239-8068 5506337252 16640000059333725291 Thone Order 6164 Eatry Hetho \$ \$ 18 APDr Cod ine NATCH M Dustoner Copy THNAK YOUT	d: Namual 2.573.79 0.69 2.573.79 16:58:56 e: 057352		Subtotai Sales Tax (6	\$2,416.7i \$157.08
PAID BY	CREDIT CA	RD	- <b>1</b>				Total	\$2,573.79

PHONE: 407-299-8888 FAX: 407-578-1840 TOLL-FREE: 800-432-0293

Melbourne Pump		**2,255.00
Two Thousand Two Hundred F Melbourne Pump 836 Creel St. Melbourne, FL 32935	ifty-Five and 00/100*********************************	*****
Sewer Plant		
Melbourne Pump	9/17/2010 new pump for sewer plant	2,255.00
Bank of America Sewer	Plant	2,255.00
Melbourne Pump	9/17/2010 new pump for sewer plant	2,255.00

Bank of America Sewer Plant

2,255.00

9/17/2010

Proceed by EAST COAST FENCE       Job #         Coords F1 202       Ob #       Coords F1 202         PROPOSAL TO       TKC3       DATE       6/22/ko/2       SOURCE         OB ADDRESS       UIL ENERALID LAKE RD       DATE       6/22/ko/2       SOURCE       DOTE         OB ADDRESS       UIL ENERALID LAKE RD       DATE       6/22/ko/2       SOURCE       DOTE         OB ADDRESS       UIL ENERALID LAKE RD       DATE       6/22/ko/2       SOURCE       DOTE         MONE # (H)       539 - 11/24       MONE       PERMIT #       EMAIL MetHanbiciancest       MOD         PENETO D POLOVEROND DENTRATIONS D LEVEL OPENFORMULTS       OPENFORMENTIONS D MOD       MOD       MOD       MOD         PENETO D POLOVEROND DENTRATIONS D LEVEL OPENFORMULTS       OPENFORMENTIONS D MOD       MOD       MOD       MOD         PENETO D POLOVEROND DENTRATIONS D MOD       MOD / PVC / ORNAMENTIAL       MOD       MOD       MOD         PENETON D REAL       1/26/**       PERMIT #       MOD       MOD       MOD       MOD         PENETON D REAL       1/26/**       PERMIT #       F00000 / PVC / ORNAMENTIAL       MOD					P.001/001		
CH. (32) 304-3666       C powerd by EAST COAST FENCE (*)       P.O. Date (*)         AX: (32) 304-377       Cooos FL 32         COOR FL 32       Cooos FL 32         OB ADDRESS 616 ERERALD LAKE RD       DATE 612/2612 SOURCE         CA: (32) 304-377       Cooos FL 32         OB ADDRESS 616 ERERALD LAKE RD       DATE 612/2612 SOURCE         CACAT FL       Cocot FL #         HONE # (+) 1239 - 1124 (w)       Cocot FL #         PEDERIT FEW C       COLLING REAL PROPERTY FEW C         COME DALL 1       POTORS 0         PROFERIT FEW C       PEDERIT FEW C         CHAIN LINK FENCE       (************************************		💮 FENCE PO	DSTS for the CUR	E 🔗	Job #		
AX: [3:1] 304-377       csstodsstrebce(gollowill.net       Cocoa, FL 325         ROPOSAL TO       TKCB       DATE       Cacoa, FL 325         OB ADDRESS       Cli 5 AFERALD LAKE RD       DATE       Cacoa, FL 325         HONE # (+)       L39-11/24 (M)       Cacoa, FL 325       DATE       PERMIT #         HONE # (+)       L39-11/24 (M)       Cacoa, FL 325       Cacoa, FL 325         HONE # (+)       L39-11/24 (M)       FOOTESTS C       FROPERTY PNS C       Cacoa, FL 325         Important       FROPERTY PNS C       FROPERTY PNS C       Cacoa, FL 325         Important       FROPERTY PNS C       FROPERTY PNS C       Cacoa, FL 325         Important       FROPERTY PNS C       FROPERTY PNS C       Cacoa, FL 325         Important       FROPERTY PNS C       FROPERTY PNS C       Cacoa, FL 325         Important       FROPERTY PNS C       FROPERTY PNS C       Cacoa, FL 325         Important       FROPERTY PNS C       FROPERTY PNS C       FROPERTY PNS C         Important       FROPERTY PNS C       FROPERTY PNS C       FROPERTY PNS C         Important       FROPERTY PNS C       FROPERTY PNS C       FROPERTY PNS C         Important       FROPERTY PNS C       FROPERTY PNS C       FROPERTY PNS C         Import	'H: (321) 504-3666	W powered by E	EAST COAST FENC	E 🐼	P.O. Box 5		
IPROPOSAL TO       TKC3         OB ADDRESS       LIK ENERGIO LAKE RD         OB ADDRESS       LIK ENERGIO LAKE RD         OCACH, FL       DOATE #	AX: (321) 504-3777	eastcoastienceil.com	/ eastcoastfence@bellso	uth.net	Cocoa, FL 329		
OB ADDRESS       LIE ENERGALD LAKE RD       LOGATE #	ROPOSAL TO TK	CB	DATE 6/27/2	OUR SOUR	CE		
CCCAP, FL       ENAIL Profile (1. FF, COF)         HONE # (1) 639 - 112.100       ENAIL Profile (1. FF, COF)         PENCETO       COLLOW ORDINOL SERLICIANDE CLEVEL       OPENFOOL YESL         PENCETO       COLLOW ORDINOL SERLICIANDE CLEVEL       OPENFOOL YESL       NOC         PENCETO       DIA FORT       FILL PLANEL       OPENFOOL YESL       NOC         PENCETO       DIA FORT       FILL PLANEL       OPENFOOL YESL       NOC         PENCETO       DIA FORT       FILL PLANEL       PENCETO       NOC         CHAIN LINK FEINCE       DIA FORT       FILL PLANEL       PENCETO       NOC         CHAIL POSTS       CONCRETO	OBADDRESS 616 E	MERALO LAKE RD		BC			
CHAIN LINK FENCE       ENAIL #ATTALIS INVEST C CF / Fr. Care         PENETRO D POLLOW GROUND DEFUNCTANDE DEVEL       PENETRO D POLLOW GROUND DEFUNCTANDE DEVEL       PENETRO D POLLOW GROUND DEFUNCTANDE DEVEL         OORE DALL D PONTRS D POTRS D PROPOSITION D PONTRS D PROPOSITION D	Com	4 EI		FEI	D. AI.		
HONE # (H)       639 - 1124 MM       CELL #FAX # 639 - 1134         PENCE TO       DEDUCTION OF CONTRAL       OPENPOOL YESC       OPENPOOL YESC       NOC         CORE DRUL POOTERS POOTERS POOTERY PRIS       OPENPOOL YESC       NOC         ALL POSTS CONCRETES       PROPERTY PRIS       OPENPOOL YESC       OPENPOOL YESC       OPENPOOL YESC         CHAIN LINK FENCE       PLOS       PLOS       PROPERTY PRIS       OPENPOOL YESC       OPENPOOL YESC       OPENPOOL YESC         CHAIN LINK FENCE       PLOS       PLOS       PLOS       POOTERS TO TAKE CHAINLINK         Y MUSTALL IZOO LFF OF YOR CLEAR SK       WOOD / PVCC / ORNAMENTAL       PLOSE SCONCRETES         CONTINUE TO TAKE THE YOR CLEAR SK       WOOD / PVCC / ORNAMENTAL         POOTERS TO TAKE THE YOR CLEAR SK       POOTERS TO TAKE THE YOR CLEAR SK       PLOSE SCONCRETES         CONTINUE TO TAKE THE YOR CLEAR SK       POOTERS TO TAKE THE YOR CLEAR SK       PLOSE SCONCORTING THE YOR CLEAR SK         OPTIONAL CONT YESCON WEST CHAIN CONTINUE TO TAKE THE YOR CLEAR SK       PLOSE SCONCORTING THE YOR CLEAR SK       PLOSE SCONCORTING THE YOR CLEAR SK         STANDARD FEATURES       ADDITIONAL CONT YESCON WEST CHAIN THE YOR CLEAR SK       CLEAR SK       CLEAR SK         STANDARD FEATURES       ADDITIONAL CONT YESCON WEST CHAIN THE YOR CLEAR SK       CLEAR SK		τ, <u>Γ</u>	- EMAIL Mathani	isinvest C	Ct rr. com		
PENCE TO         PROTECT         PROTECT         PROTECT         PROPERTY PINS	HONE # (H) 639-	<u>112.4 (W)</u>	CELL #	Fax #	<u>+ 639 - 1134</u>		
	FENCE	TO FOLLOW GROUND SP CORE DRILL FOOTER	LIT GRADE LEVEL OPEN S PROPERTY PIN	IPOOL YES N	0 ] ]		
* INSTALL 1200 LF of 4'HIGH RESIDENTIAL CHAINLINK         * ALL POSTS CONCRETED         CHAIN LINK FENCE         Correl         Tool Page         Tool Page         Tool Page         Chain Correl         Correl         Provide Ball         OPTIONS         ADDITIONAL COST         SIDE ON BOARD / S BOX         SIDE ON BOARD / S BOX <t< td=""><td>0</td><td>1200'</td><td>,</td><td></td><td></td></t<>	0	1200'	,				
* INSTALL IZOOLF OF 4'HIGH RESIDENTIAL CHAINLINK         * ALL POSTS CONCRETED         * CHAIN LINK FENCE         * OPENER	·	A			Ð		
# JUSTALL 12.00 LF of 4'HIGH RESIDENTIAL CHAINLINK         # ALL POSTS CONCRETES         CHAIN LINK FENCE         Processe       Processes         Processes       WOOD/PVC/ORNAMENTAL         Processes       WOOD/PVC/ORNAMENTAL         Processes       Dotage       Processes         Processes       Processes       WOOD/PVC/ORNAMENTAL         Processes       Dotage       Processes         Processes       Processes       Processes         OPTIONS       ADDITIONAL COST       YESNO         MALERMOVAL       Higgs       Dotage       Processes         MORE ON BOARD /S. BOX       ADDITIONAL COST       YESNO       Notester         SADED ON BOARD /S. BOX       ADDITIONAL COST       YESNO       Notester         MALE PROVAL       Higgs       Dotage       Processes       Notester         MALE PROVAL       Higgs       Dotage       Notester       Notester         MALE PROVAL       Higgs       Dotage       Higgs       Notester       Notester         MALE PROVAL       Higgs       Dotage       Higgs       Notester       Notester       Notester         MORE ON BOARD /S. BOX       ADDITIONAL COST       YESNO       Notester       Notester							
+ INSTALL IZOOLF OF H'HIGH RESIDENTIAL CHAINLINK         + ALL POSTS CONCRETED         CHAIN LINK FENCE         Process       Precise Posts for a Cup         Note Head       Dop Pail         Too Pail       The 'Precise Posts for a Cup         Process       Precise Posts for a Cup         Process       Precise Posts for a Cup         Process       Process         <							
# INSTALL 1200 LF of 4 HIGH RESIDENTIAL CHAINLUKK         # ALL POSTS CONCRETES         CHAIN LINK FENCE         OPENDER         Data         Postage         <							
HAL POSTS CONCRETES         CHAIN LINK FENCE       Pence Posts for a Cue         Postage       100         Processee       100         Postage       100         Postage       100         Postage       100         Postage       100         Postage       100         Postage       100         OPTONS       ADDITIONAL COST         OPTONS       ADDITIONAL COST         Statements       Solation         Statements       ADDITIONAL COST         Statements       Concerte         ALLIANTUM GATE FRAME       WOOD         Statements       Concerte         Statements       Concerte         ALLIANTUM GATE FRAME       WOOD         Statements       Concerte	¥INSTALL 12	OULF OF 4 HIGH	RESIDENTIAL CH.	ainlin K			
CHAIN LINK FENCE       (*) Fence Posts for a Cure       WOOD / PVC / ORNAMENTAL         Footage       Dop Pail       196/2       PLEASE ASK       WOOD / PVC / ORNAMENTAL         Footage       Dop Pail       196/2       PLEASE ASK       WOOD / PVC / ORNAMENTAL         Footage       Dop Pail       196/2       Please       Please       Please         Sequence       100 Pail       196/2       Please	X ALL PASTS	CONCRETES					
CHAIN LINK FENCE       WOOD / PVC / ORNAMENTAL         Fortage       Pootage       Pootage       Pootage         Fortage       Pootage       Pootage       Pootage         Pootage       Pootage       Pootage       Pootage       Pootage         Pootage       Pootage       Pootage       Pootage       Pootage         Pootage       Pootage       Pootage       Pootage       Pootage       Pootage         Pootage       Pootage       Pootage       Pootage         Outcome for openation state of the social colspan="2">Pootage       Pootage       Pootage         Outcome for openation state of the social colspan="2">Pootage       Pootage       Pootage         Outcome for openation state of the social colspan="2">Pootage       Pootage       Pootage       Pootage       Pootage       Pootage       Pootage       Pootage       Pootage       Pootage       Pootage <th colspan="2" p<="" td=""><td>7 110 1 03/3</td><td></td><td></td><td></td><td></td></th>	<td>7 110 1 03/3</td> <td></td> <td></td> <td></td> <td></td>		7 110 1 03/3				
CHAIN LINK FENCE         CHAIN LINK FENCE         WOOD / PVC / ORNAMENTAL         Processe       Doc         Ornal Hight       Polage       Picks         Munded       Ornal Posts       Formage       Doc         OPTIONS       ADDITIONAL COST       YBNO       Processe       Picks         OPTIONS       ADDITIONAL COST       YBNO       Picks       Receive and Guardell, to:       WARD (1)       Match (1)         Streame:       OPTIONS         ADDITIONAL COST       YBNO         Concrete       Rander         Streame:       Concrete       Rander       Rander <thrander< th="">       Rander       <t< td=""><td></td><td></td><td></td><td></td><td></td></t<></thrander<>							
CHAIN LINK FENCE         Fence Posts for a Cure       WOOD / PVC / ORNAMENTAL         Force Posts for a Cure       WOOD / PVC / ORNAMENTAL         Force Posts for a Cure       Pickets         Pickets       Pickets         Customer to be obstation with an exampted of the wood         Pickets       Pickets       Pi							
CHAIN LINK FENCE         WOOD / PVC / ORNAMENTAL         Process for a Cure         WOOD / PVC / ORNAMENTAL         Process is for a Cure         OPTIONS         Cure is a cure is a colspan="2">Cure is a cure is a colspan="2">Cure is a cure is a cure is a colspan="2">Cure is a cure is cure is a cure is c							
CHAIN LINK FENCE       Year         Poctage       126/2         Sampland       200/2         Sampland       200/2         Sampland       200/2         Sampland       200/2         Poctage       126/2         Poctage       126/2         Poctage       126/2         Processe       200/2         OPTIONS       ADDITIONAL COST         Participation       100         Strandard       100/2         SSCOMPOSITE HEVE - PVC/VOOD/ALUM       NCL         SSCOMPOSITE HEVE - PVC/VOOD/ALUM       NCL <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>							
CHAIN LINK FENCE         Please Ask       WOOD / PVC / ORNAMENTAI         Portage							
CHAIN LINK FENCE         Promage       1760       1760       Polage       Polage       Polage       Polage         Tool Harding       Too Pail       1560"       Polage							
CHAIN LINK FENCE         Pence Posts for a Cure         Pootage       Pickts         Pootage       Pickts         Pootage       Pickts         Construction       Pootage       Pickts         Gauge       Pickts       Pickts         Residuard ()       X X X       Gate Frames       Pootage       Pickts         Statiguard ()       X X X       Gate Frames       Pootage       Pickts         OPTIONS       ADDITIONAL COST       YESNO       Pootage       Pickts       Bootage       Pickts         OPTIONS       ADDITIONAL COST       YESNO       Pootage       Pickts       Bootage       Pickts         Standard ()       X X X       Gate Frames       Digit for a Cure       Pootage       Pickts         Standard ()       ADDITIONAL COST       YESNO       Pootage       Pickts       Control ()       Match ()         OPTIONS       ADDITIONAL COST       YESNO       Control ()       Match ()       Pootage       Pickts       Control ()       Match ()         Control ()       Match ()       Dist       Dist       Dist       Dist       Dist       Dist          Standard ()       Standard							
CHAIN LINK FENCE       WOOD / PVC / ORNAMENTAL         Pootage       PLEASE ASK       WOOD / PVC / ORNAMENTAL         Tootage       15/81"       Constant       15/81"         Gauge       100 Rd.       Constant       15/81"       Please Ask         WOOD / PVC / ORNAMENTAL       Dotage       Please Ask       Please Ask         Would be dot       Constant       15/81"       Ipp         Gauge       100 Rd.       Constant       Please Ask         OPTIONS       ADDITIONAL COST       YES/NO       Rate Frames       Style       Costomer loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss of the wood, some splitting and warping might occur, the loss							
CHAIN LINK FENCE       WOOD / PVC / ORNAMENTAI         Protage       PLASE ASK       WOOD / PVC / ORNAMENTAI         Protal Height       Top Pail       ESK       WOOD / PVC / ORNAMENTAI         Staguard       Operation       Posta       Posta       Posta         Staguard       ADDITIONAL COST       YES/NO       Posta       Posta       Posta         OPTIONS       ADDITIONAL COST       YES/NO       No       Display       Posta       Strain frame       Concrete       Runnel of east of range and framed decay. Due to the adverse match warping might occur, the la normal and density of the wood.       Stage and framed decay. Due to the adverse match warping might occur, the la normal and density of the wood.         Strain Dark       Features       Customer to be ONSITE       Customer to be ONSITE         Strain Dark       Features       No       The above processitive failure of the wood.         Strain Dark       Features       No       The above processitive failure of the wood.         Strain Dark       Features       No       The above processitive failure of the wood.         Strain Dark       Features       No       The above processitive failure of the wood.         Strain Dark       Features       No       The above processitive failure of the wood.       Missidian above.       No							
CHAIN LINK FENCE       PLEASE ASK       WOOD / PVC / ORNAMENTAL         Fortage in 1000       Top Rail       15/2 // 10/2							
Total Height       4'       Une Post       1564''         Gauge       () Inc. (0) Std.       Gate Frames			ence Posts for a Cure				
Badge ()       ()	CHAIN LIN	K FENCE	ence Posts for a Cure	OOD / PVC /	ORNÁMENTAL		
Sareguard () x x x       Gate Frames	CHAIN LINI Footage 1200	K FENCE	ence Posts for a Cure PLEASE ASK Pootage	OOD / PVC / O	ORNÁMENTAL		
OPTIONS       ADDITIONAL COST       YES/NO         TENCE REMOVAL	CHAIN LIN Footage 12.00 Total Height 4 Gauge () Ind. (0 Std. Knuckied (0 XXX	K FENCE	ence Posts for a Cure PLEASE ASK Please Pootage Height	OOD / PVC / 0 Pickets Top	ORNÁMENTAL		
EENCE REMOVAL       East Coast Fence and Guardrall, inc., wARRANTIES its pressure treated wood fence for 25 years sgalarst al rotting and insect deax. Due to the strame harmass and density of the wood.         30ARD ON BOARD / S. BOX	CHAIN LIN Footage 1200 Total Height () Ind. (00 Std. Knuckled (0) XXX Safeguard () XXX	K FENCE	PLEASE ASK W Height Type	OOD / PVC / Pickets Top Posts			
BOARD ON BOARD / S. BOX       BOARD ON BOARD / S. BOX         BOARD ON BOARD / S. BOX       BOARD ON BOARD / S. BOX         BOARD ON BOARD / S. BOX       BOARD ON BOARD / S. BOX         BOARD ON BOARD / S. BOX       BOARD ON BOARD / S. BOX         BOARD ON BOARD / S. BOX       BOARD ON BOARD / S. BOX         BOARD ON BOARD / S. BOX       BOARD ON BOARD / S. BOX         STANDARD FEATURES       Customer to be ONSITE         ALUMINUM GATE FRAME - WOOD       INCL         SSCOMPOSITE HOWE - PVC/WOOD/ALUM INCL       Incl         YES       BOTTOM TENSION WIRE - CHAINLINK         Dut as the property owner are aciely responsible for locating property lines, underground profers in the property owner are aciely responsible for locating property lines, underground the accepted by the some and Buscher to concellation after that time will result in a damaget. X         Du as the property owner are aciely responsible for locating property lines, underground the comman the property data and analyse therefore and Buscher to concellation after that time will result in a damaget. X         Du as the property owner are aciely mesoprosible for locating property lines. Underground the comman te as one of the work as specified.         You, the buyer result in all lines and analyse or the other accepted by accepted, you are authorized to do the work as specified.         You, the above prices, specifications and conditions are hereby accepted, you are authorized to do the work as specified.         You, the above prices, specificati	CHAIN LIN Footage 1200 Total Height Gauge () Ind. (00 Std. Knuckled (0) x x x Safeguard () x x x OPTIONS	K FENCE Top Rail 15/8" Line Post 15/8" Corner Post 2, 1/5 " Gate Posts Gate Frames ADDITIONAL COST YES/N	Pootage Height Style Concrete	OOD / PVC / 0 Pickets Top Posts Gates Runner	ORNAMENTAI Scroll ( ) Match ( )		
BOARD ON BOARD / S. BOX	CHAIN LIN Footage 12.00 Total Height 4 Gauge () Ind. (0 Std. Knuckied (0) x x x OPTIONS TENCE REMOVAL	K FENCE	PICE Posts for a Cure PLEASE ASK Pootage Height Type Style Concrete	OOD / PVC / Pickets Top Posts Gates Runner	ORNÁMENTAL Scroll () Match ()		
Base:       # 69175         Stand ON BOARD / S. BOX       Options         Standard (S. BOX)       Standard (S. BOX)         Standard (S. BOX)       Standard (S. BOX)      <	CHAIN LIN Footage 12.00 Total Height 4 Gauge () Ind. (0) Std. Knuckide (0) XXX Safeguard () X X X OPTIONS TENCE REMOVAL	K FENCE Top Rail 13/4" Line Post 15/6" Corner Post 2,1/4" Gate Posts Gate Frames ADDITIONAL COST YES/N	ence Posts for a Cure PLEASE ASK W Pootage Height Type Style Concrete East Coast Fence and Gue wood fence for 25 years at	OOD / PVC / Pickets Top Posts Gates Runner vorrall, Inc., WARRANTIES gainst all rotting and insect	ORNÁMENTAL Scroll () Match () Re pressure treated t decay. Due to the axburne		
SS FASTENERS       Columna       Columna </td <td>CHAIN LIN Footage 1200 Total Height 4 Gauge () Ind. (00 Std. Knuckled (0) XXX Safeguard () X X X OPTIONS TENCE REMOVAL</td> <td>K FENCE - Top Rail</td> <td>ence Posts for a Cure PLEASE ASK V Please Footage Height Type Style O Concrete East Coast Fence and Gus wood fence for 25 years a hardness and density of th Is normal and does not go</td> <td>OOD / PVC / Pickets Top Posts Gates Runner vorrell, inc., WARRANTIES gainst air rotting and insect e wood, some splitting an misture failure of the wood</td> <td>ORNAMENTAL Scroll ( ) Match ( ) Rs pressure treated r decay. Due to the axtreme d warping might occur, this</td>	CHAIN LIN Footage 1200 Total Height 4 Gauge () Ind. (00 Std. Knuckled (0) XXX Safeguard () X X X OPTIONS TENCE REMOVAL	K FENCE - Top Rail	ence Posts for a Cure PLEASE ASK V Please Footage Height Type Style O Concrete East Coast Fence and Gus wood fence for 25 years a hardness and density of th Is normal and does not go	OOD / PVC / Pickets Top Posts Gates Runner vorrell, inc., WARRANTIES gainst air rotting and insect e wood, some splitting an misture failure of the wood	ORNAMENTAL Scroll ( ) Match ( ) Rs pressure treated r decay. Due to the axtreme d warping might occur, this		
POOL CODE HDWE       It is provided by the company. Becomes binding contract         STANDARD_FEATURES       Balance Duc       YES NO         ALUMINUM GATE FRAME - WOOD       INCL       Balance Duc       YES NO         SS/COMPOSITE HDWE - PVC/WOOD/ALUM       INCL       Balance Duc       YES NO       Incl         YES       BOTTOM TENSION WIRE - CHAINLINK       Incl       Bottom tension within property integrated in the contract.       Interfails and at non-utility company integrated in the contract.       Interfails and at non-utility company integrated in the damage. X         You the buyer, may cancel this transaction within three business days from the date shown below without penalty. Cancellation after that time will result in a charge of 15% of the total contract.       You the buyer, may cancel this transaction within three business days from the date shown below without penalty. Cancellation after that time will result in a charge of 15% of the total contract.         PROPERTY OWNER'S ACCEPTANCE OF PROPOSAL       ACCEPTANCE       ACCEPTANCE         12.0       # POSTS FOR CURE \$ 12.0       Signature       / /20	CHAIN LIN Footage 1200 Total Height Gauge () Ind. (00 Std. Knuckled (0) X X X OPTIONS TENCE REMOVAL STARD ON BOARD (S. BOX	K FENCE	ence Posts for a Cure PLEASE ASK V Pootage Height Type Style O Concrete East Coast Fence and Guz wood fence for 25 years and hardness and density of th Is normal and does not op Base	OOD / PVC / Pickets Top Posts Gates Runner udrall, Inc., WARRANTIES gainst all rotting and insect e wood, some splitting an natitute failure of the wood 69.75	ORNAMENTAI		
STANDARD       FEATURES         ALUMINUM GATS FRAME - WOOD       INCL         SSCOMPOSITE HOWE - PVC/WOOD/ALUM       INCL         SSCOMPOSITE HOWE - PVC/WOOD/ALUM       INCL         BOTTOM TENSION WIRE - CHAINLINK       INCL         Vis site property owner are solely responsible for locating property lines, underground prinkler änes, and all non-utility company times that might be damaged. You will release to pay all costs plus all collection agency costs, if auch service is needed.         Vou, the buyer, may cancel this transaction within three business days from the date shown below without peralty. Cancellation after that time will result in a oharge or 15% of the total contract.         PROPERTY OWNER'S ACCEPTANCE OF PROPOSAL         The above prices, specifications and conditions are hereby accepted, you are authorized to do the work as specified. payment will be made as outlined above.         I'20_ # POSTS FOR CURE \$_12_0       Signature	CHAIN LIN Footage 10 00 Total Height 4 Gauge () Ind. (0 Std. Knuckied (0) x x x OPTIONS TENCE REMOVAL BOARD ON BOARD / S. BOX SS FASTENERS	K FENCE	ence Posts for a Cure PLEASE ASK V Pootage Height Type Style 0 Concrete East Coast Fence and Gue wood fence for 25 years ag hardness and density of th Is normal and does not on Base Options Permit	OOD / PVC / Pickets Top Posts Gates Runner vorrell, Inc., WARRANTIES generat all rotting and insacc e wood, some splitting and stifute failure of the wood 69/75	ORNAMENTAI Scroll ( ) Match ( ) Rs pressure treated decay. Due to the axtreme decay. Due to the axtreme decay is to the axtreme decay is to be available Customer to be ONSITE to inspect and Day Crey		
STANDARD       FEATURES         ALUMINUM GATE FRAME - WOOD       INCL         SSCOMPOSITE HOWE - PVC/WOOD/ALUM       INCL         SSCOMPOSITE HOWE - PVC/WOOD/ALUM       INCL         MSS       BOTTOM TENSION WIRE - CHAINLINK         Dues the property owner are solely responsible for locating property lines, underground prinker lines, and at non-utility company innes that might be damaged. You will release to pay all costs plus all collection agency costs, if such service is needed.         Vou, the buyer , may cancel this transaction within three business days from the damage. X         PROPERTY OWNER'S ACCEPTANCE OF PROPOSAL         The above prices, specifications and conditions are hereby accepted, you are authorized to do the work as specified.         payment will be made as outlined above.       ACCEPTANCE         12.0       # POSTS FOR CURE \$       12.0	CHAIN LIN Foctage Total Height Gauge () Ind. (0 Std. Knuckide (0 XXX Safeguard () X X X OPTIONS TENCE REMOVAL SOARD ON BOARD / S. BOX SS FASTENERS	K FENCE 13/g" Line Post 15/g" Corner Post 2,1/s." Gate Prames ADDITIONAL COST YES/N	ence Posts for a Cure PLEASE ASK V Pootage Height Type Style O Concrete East Coast Fence and Gue wood fence for 28 years a hardness and density of th Is normal and does not og Basc Options Permit Total Price	OOD / PVC / 0 Pickets Top Posts Gates Runner vorall, Inc., WARRANTES genes all rotations and inace e wood, soling and inace e wood, soling aplitting an natitute failure of the wood 29/75	ORNAMENTAI		
STRUCTION TIESTICKED	CHAIN LIN Footage Total Height Gauge () Ind. (0 Std. Knuckide (0 ) Safeguard () x x x OPTIONS TENCE REMOVAL BOARD ON BOARD / S. BOX SS FASTENERS FOOL CODE HDWE	K FENCE Top Rail 13/4" Line Post 15/6" Corner Post 2,1/4" Gate Posts Gate Frames ADDITIONAL COST YES/N	ence Posts for a Cure PLEASE ASK Pootage Height Type Style Concrete East Coast Fence and Qua wood fence for 25 years a hardness and density of th Is normal and does not og Basc Options Permit Total Price Less Deposit	OOD / PVC / Pickets Top Posts Gates Runner vorrell, Inc., WARRANTIES gainst all rotting and insact e wood, some spitting an institute failure of the wood 69/75	ORNAMENTAL Scroll ( ) Match ( ) Represence treated t decay. Due to the extreme d warping might occur, the Customer to be ONSITE to inspect and Pay Crew when finished.		
Addition of the proceed of the solution of the solutine of the solution of the solutine of the solu	CHAIN LIN Footage 1200 Total Height 4 Gauge () Ind. (00 Std. Knuckled (0) XXX Sateguard () X X X OPTIONS TENCE REMOVAL BOARD ON BOARD / S. BOX SS FASTENERS FOOL CODE HDWE STANDAR	K FENCE Top Rail <u>13/4</u> " Line Post <u>15/6</u> " Corner Post <u>2,1/5</u> " Gate Posts Gate Posts ADDITIONAL COST YES/N	ence Posts for a Cure PLEASE ASK V Pootage Height Type Style O Concrete East Coast Fence and Gua wood fence for 25 years and hardness and density of th Is normal and does not on Base Options Permit Total Price Less Deposit Balance Duc	OOD / PVC / Pickets Top Posts Gates Runner words, Inc., WARRANTIES gainst all rotting and insacc e wood, some sapitting an natibute failure of the wood La 75	ORNAMENTAL Scroll ( ) Match ( ) Scroll ( ) Match ( ) Respressure treated to decay. Due to the activities d warping might occur, this Customer to be ONSITE to Inspect and Pay Crew when finished. YES   NO		
WESS       BOTTOM TENSION WIRE - CHAINLINK       INCL         Wess       BOTTOM TENSION WIRE - CHAINLINK       INCL         Du as the property owner are ablely responsible for locating property links inderground prinkle ines, and at non-utility company innes that might be damaged. You will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all lability resulting from any such damage. Xou will release the company from all such the company from all sucon the company from all suconthe company from all suc	CHAIN LIN Footage 1200 Total Height Gauge () Ind. (0) Std. Knuckled (0) XXX Safeguard () X X X OPTIONS TENCE REMOVAL 30ARD ON BOARD / S. BOX SS FASTENERS POOL CODE HDWE STANDAR	K FENCE	ence Posts for a Cure PLEASE ASK V Pootage Height Type Style O Concrete East Coast Fence and Gua wood fence for 25 years a hardness and density of th Is normal and does not op Base Options Permit Total Price Less Deposit Balance Duc The above proposal when between the two parties ar	OOD / PVC / Pickets Top Posts Gates Runner udrall, Inc., WARRANTIES gainst all rotting and insect e wood, some spitting an natitute failure of the wood 69.75	ORNAMENTAL Scroll () Match () Scroll () Match () Rs pressure treated tdecay. Due to the axtreme d warping might occur, the Customer to be ONSITE to inspect and Pay Crew when finished. YES NO		
Out as the property owner are solely responsible for locating property lines, underground prinkler lines, and all non-utility company lines that might be demaged. You will release the company from all liability resulting from any auch damage. X       agrees to pay all costs plus all collection agency costs, if auch service is needed. You, the buyer, may cancel this transaction within three business days from the date shown below without penalty. Cancellation after that time will result in a charge of 15% of the total contract.         PROPERTY OWNER'S ACCEPTANCE OF PROPOSAL         The above prices, specifications and conditions are hereby accepted, you are authorized to do the work as specified. payment will be made as outlined above.       ACCEPTANCE         120       # POSTS FOR CURE \$       20	CHAIN LIN Footage 1200 Total Height 4 Gauge () Ind. (0 Std. Knuckied (0 XX X Safeguard () X X X OPTIONS TENCE REMOVAL 30ARD ON BOARD / S. BOX SS FASTENERS FOOL CODE HDWE STANDAR ALLUMINUM GATE FR SS/COMPOSITE HDWE	K FENCE	ence Posts for a Cure PLEASE ASK V Pootage Height Type Style 0 Concrete East Coast Fence and Gue wood fance for 25 years at nardness and density of th Is normal and does not on Base Options Permit Total Price Less Deposit Balance Dite The above proposal when between the two parties an made unless a proper chall All materials remain the por	OOD / PVC / / Pickets Top Posts Gates Runner wordrall, Inc., WARRANTIES generat all rothing and inagen e wood, some splitting and accepted by the company of is not subject to cancell accepted by the company of is not subject to cancell nge order is filled our and opery of Est Coast Feno Coast Feno Coa	ORNAMENTAL Scroll () Match () Scroll () Match () Re pressure treated decay, Due to the axtrume d warping might occur, this Customer to be ONSITE to Inspect and Pay Crew when finished. YES D NO D Stormer binding contract etion. No changes will be signed by automer.		
the company time that might be demaged. You will release     the company time that might be demaged. You will release     the company time at liability resulting from any such damage. X         PROPERTY OWNER'S ACCEPTANCE OF PROPOSAL     The above prices, specifications and conditions are hereby accepted, you are authorized to do the work as specified.         Payment will be made as outlined above.         ACCEPTANCE         //20         # POSTS FOR CURE \$_12.0         Signature/ /20	CHAIN LIN Footage 1200 Total Height 4 Gauge () Ind. (0 Std. Knuckide (0 XXX Safeguard () X X X OPTIONS TENCE REMOVAL BOARD ON BOARD / S. BOX SS FASTENERS POOL CODE HDWE STANDAR ALLIMINUM GATS FR SS/COMPOSITE HDWE	K FENCE	ence Posts for a Cure PLEASE ASK V Please ASK V V V V V V V V V V V V V	OOD / PVC / / Pickets Top Posts Gates Gates Runner voral, inc., WARRANTIES generat all rotting and insect e wood, some splitting an esticute failure of the wood Some splitting and societate to subject to company of is not subject to company of is not subject to company of subject to company of access and remo reset. If legal action is no	ORNAMENTAL Scroll ( ) Match ( ) Scroll ( ) Match ( ) its pressure treated t decay. Due to the axterme d warping might occur, the Customer to be ONSITE to Inspect and Pay Crew when finished. YES NO becomes binding contract stion. No changes will be signed by customer		
PROPERTY OWNER'S ACCEPTANCE OF PROPOSAL The above prices, specifications and conditions are hereby accepted, you are authorized to do the work as specified. payment will be made as outlined above.      ACCEPTANCE      //20	CHAIN LIN Footage Total Height Gauge () Ind. (0 Std. Knuckide (0) Safeguard () x x x OPTIONS TENCE REMOVAL BOARD ON BOARD / S. BOX SS FASTENERS POOL CODE HDWE STANDAR ALUMINUM GATE FR SS/COMPOSITE HDWE USS BOTTOM TENSION WI DU as the property owner are solely resp	K FENCE Top Rail <u>1%4</u> " Line Post <u>1%4</u> " Corner Post <u>2,1/4</u> " Gate Posts Gate States Gate Frames ADDITIONAL COST YES/N ADDITIONAL	ence Posts for a Cure PLEASE ASK V Pootage Height Type Style O Concrete East Coast Fence and Gue wood fence for 25 years at hardness and density of th Is normal and does not og Basc Options Permit Total Price Less Deposit Balance Duc The above proposal when between the two parties an made unless a proper chan All materials remain the pr the contract is pill in full.	OOD / PVC / 0 Pickets Top Posts Gates Runner voral, Inc., WARRANTIES generat all ording and inace e wood, some splitting and nace e wood, some splitting and nace e wood, some splitting and picket all ordinate accespted by the company of is not subject to cancell ge order is filled our and openty of East Coast Fence Right of access and remo pixed. If loge action is filled our and openty of East Coast Fence Right of access and remo pixed. If loge action is not a coast and remo pixed. If loge action is not accessed and remo pixed. If loge action is not accessed action agency coast accessed action accessed action agency coast accessed action accessed action	ORNAMENTAL ORNAMENTAL Scroll ( ) Match ( ) Scroll ( ) Match ( ) its pressure treated t decay. Due to the extreme d warping might occur, the Customer to be ONSITE to Inspect and Pay Crew when finished. YES D NO D to become binding contract ettion. No changes will be signed by outcomer. a and Guardrail, inc. until we is hereby granted in the esterary to collext, purchaser is, if such service is needed.		
PROPERTY OWNER'S ACCEPTANCE OF PROPOSAL The above prices, specifications and conditions are hereby accepted, you are authorized to do the work as specified. payment will be made as outlined above. ACCEPTANCE           120         # POSTS FOR CURE         120         Signature         / /20	CHAIN LIN Footage 1200 Total Height 4 Gauge () Ind. (0) Std. Knuckied (0) XXX Sateguard () X X X OPTIONS TENCE REMOVAL 30ARD ON BOARD / S. BOX 35 FASTENERS POOL CODE HDWE STANDAE ALUMINUM GATE FR SS/COMPOSITE HDWE MESS BOTTOM TENSION WI OU as the property owner are solidly respu- printer lines, and all non-utility company to a sthe property owner are solidly respu- printer lines, and all non-utility company the company from al liability resulting from	K FENCE Top Rail 13/4" Corner Post 2,1/5" Cate Post Gate Post Gate Post ADDITIONAL COST YES/N ADDITIONAL COST YES/N COST ADDITIONAL COST YES/N ADDITIONAL COST YES/N ADDITIONAL COST YES/N COST ADDITIONAL COST YES/N ADDITIONAL COST YES/N A	ence Posts for a Cure PLEASE ASK PLEASE ASK Please Ask Pootage Height Type Style 0 Concrete East Coast Fence and Qua wood fence for 25 years a hardness and does not og Basc Options Permit Total Price Less Deposit Balance Due The above proposal when between the two parties and made unless a proper chal All materials remain the po- the contract is paid in full. event of nonpayment as a agrees to pay all coasts plur You, the buyer, may cance date shown below without	OOD / PVC / Pickets Top Posts Gates Runner vorall, Inc., WARRANTIES gainst all rotting and insact e wood, some aplitting an nstitute failure of the wood <u>La 775</u> accepted by the company of is not subject to capcell nge order is filled our and openy of East Coast Fence Right of access and remo remed. Hegel sction is ne all collection agency coast all to its rot machine	ORNAMENTAL Scroll ( ) Match ( ) Scroll ( ) Scroll ( ) Match ( ) Scroll ( ) Scroll ( ) Match ( ) Scroll ( ) Sc		
The above prices, specifications and conditions are hereby accepted, you are authorized to do the work as specified.         payment will be made as outlined above.       ACCEPTANCE         120 # POSTS FOR CURE \$ 12.0       Signature / /20	CHAIN LIN Footage Total Height Gauge () Ind. (0) Std. Knuckled (0) A Safeguard () x x x OPTIONS FENCE REMOVAL 30ARD ON BOARD / S. BOX SS FASTENERS FOOL CODE HDWE STANDAR ALUMINUM GATS FR SS/COMPOSITE HDWE VES BOTTOM TENSION WI OU IS the property owner are solely responsible of the property owner are solely response FINDER SIZE AND ART OF THE SIZE A	K FENCE	ence Posts for a Cure PLEASE ASK V Pootage Height Type Style O Concrete East Coast Fence and Gua wood fence for 25 years a hardness and density of th Is normal and does not op Base Options Permit Total Price Less Deposit Balance Duc The above proposal when between the two parties at made unless a proper chap All materials remain the pr the connect is paid in full event of nonpayment as a agrees the paid in full event of nonpayment as a event of nonpayment as a agrees the paid in full event of nonpayment as a agrees the paid in full	OOD / PVC / 4 Pickets Top Posts Gates Runner udrall, Inc., WARRANTIES gainst all rotting and insect e wood, some spitting and souther spitting an	ORNAMENTAL Scroll () Match () Scroll () Scr		
120 # POSTS FOR CURE \$ 12.0 Signature / /20	CHAIN LIN Footage Total Height Gauge () Ind. (0) Std. Knuckled () Safeguard () x x x OPTIONS TENCE REMOVAL 30ARD ON BOARD / S. BOX SS FASTENERS POOL CODE HDWE STANDAR ALUMINUM GATE FR SS/COMPOSITE HOWE SS/COMPOSITE HOWE SS/COM	K FENCE	ence Posts for a Cure PLEASE ASK V Pootage Height Type Style 0 Concrete East Coast Fence and Gu wood fence for 25 years ag hardness and density of th Is normal and does not on Base Options Permit Total Price Less Deposit Balance Dite The above proposal when between the two parties an made unless a proper chail All materials remain the pr the course tip paid in full, event of nonpayment as ag agrees to pay all costs plu nd You, the buyer , may cancu- date shown below without charge of 15% of the totel	OOD / PVC / / Pickets Top Posts Gates Runner udrall, Inc., WARRANTIES gainst all rotting and image e wood, some spilting an natiture failure of the wood <u>6975</u> accepted by the company id is not subject to cancell nge order is filled our and openy of East Coast Feno Right of access and remo Right of access and remo Right of access and remo sheed. Hiege scion is ne s all collection agency cas el this transaction within th penalty. Cancellation afte contract. ROPOSAL	ORNAMENTAL Scroll ( ) Match ( ) Scroll ( ) Match ( ) Rs pressure treated (decay, Due to the axterned d warping might occur, the Customer to be ONSITE to inspect and Pay Crew When finished. YES NO  Customer, and Guardal, inc., until wai is hereby granted in the Cestary to collect, purchaser i, if such service is needed. Tee Dustimes days from the rihat time will result in a		
	CHAIN LIN Footage Total Height Gauge () Ind. 00 Std. Knuckled () X X X OPTIONS ENCE REMOVAL BOARD ON BOARD / S. BOX SFASTENERS FOOL CODE HDWE STANDAR ALUMINUM GATE FR SS/COMPOSITE HDWE SS/COMPOSITE HDWE SS/COMPOSITE HDWE SS/COMPOSITE HDWE MESS BOTTOM TENSION WI DU as the property owner are noisy responsive midler ines, and at non-utility company to company from all liability resulting from The above prices, specific payment will be made as	K FENCE	ence Posts for a Cure PLEASE ASK V Please ASK V V V V V V V V V V V V V	OOD / PVC / / Pickets Top Posts Gates Runner udrall, Inc., WARRANTIES gainst all rotting and image e wood, some spiltting an natitute failure of the wood <u>6975</u> accepted by the company d is not subject to captell inge order is filled our and openy of East Coast Fano all collection agency cast all collection agency cast agency cast all collection agency cast all collection agency cast agency cast	ORNAMENTAI		
	CHAIN LIN Footage 1200 Total Height 100 Std. Knuckled (1) ind. 00 Std. Knuckled (2) X X X OPTIONS ENCE REMOVAL DARD ON BOARD / S. BOX IS FASTENERS DOL CODE HDWE STANDAR ALUMINUM GATE FR SS/COMPOSITE HDWE VES BOTTOM TENSION WI DU as the property owner are aciely responsible iness indice iness and all non-diffy company indice iness and all indiffy resulting from The above prices, specific payment will be made as 120 # POSTS FO	K FENCE	ence Posts for a Cure PLEASE ASK V Pootage Height Type Style 0 Concrete East Coast Fence and Gue wood fence for 25 years a nardness and density of th Is normal and does not on Base Options Permit Total Price Less Deposit Balance Dite The above proposal when between the two parties an made unless a proper chail All materials remain the pr the contract is paid in full, event of nonpayment as a agrees to pay all costs plu nd You, the buyer, may cance date shown below without charge of 15% of the total R'S ACCEPTANCE OF P preby accepted, you are authout All materials All materials Cost of the total Cost of the total	OOD / PVC / / Pickets Top Posts Gates Runner word, Inc., WARRANTIES genet all rotting and inagen wood, some splitting and social to the wood Gates Runner wood, some splitting and social to the wood Gates Runner wood, some splitting and social to the wood Gates Runner wood, some splitting and social to coale Feno Runner accepted by the company of is not subject to captell accepted by the company of is not subject to captell accepted by the company of access and remo Right of access and remo solution agency cast Right of access and remo parally. Cancellation afte contract. ROPOSAL orized to do the with CCEPTANCE	ORNAMENTAI		

and a second second

JUN-28-2012 10:29A FROM:	6318062	TD:63911,34	P.1
MIKE GREEN 321-636-7972 • 321-632-0701	N N N N N N Hercules Atl Fence	Family Owned & Ope Since 1960 Licensed & Certifi	V V V
PROPOSAL TO: <u>ATTN</u> : ADDRESS: <u>JERRY</u> ADDRESS: <u>ATTN</u> : ADDRESS: <u>ATTN</u> : HOME #: <u>CELL</u> #	TERRY AndRICK 08-4714 ES FAX 639 WORK #: 639	9/134 1/34	
HEIGHT 4' IN 2 MARS LIRE	WOOD HEIGHT STYLE		
TOP RAIL $13/60$ LINE POSTS $15/8" \times 6"$ END & CORNER POSTS $2/5 \times 6$	PICKETS RUNNERS LINE & CORNER POSTS	COLOR END POSTS LINE POSTS	
WALK & DRIVE GATE POSTS NA WALK GATES NA DRIVE GATES NA	GATE POSTS WALK GATES DRIVE GATES	CAPS WALK GATES DRIVE GATES	
MATERIALS:       \$         LABOR:       \$         TAX:       \$         PERMIT:       \$         TOTAL       \$         DOWN PAYMENT:       \$         BALANCE DUE       \$		/200 '	
The Fonce Eroctor, borninafter called Eroctor, proposes to sell material a Eroctor will call for underground locates before storting SALESMAN	and/or labor to the persons hereincher called Customer. More or less r work. The Customer or the Erector will pull permit depending on above CUSTOMER	naterial other than amount contracted for will be d constructed agreements; a fae will be charged if Er DATE	obited or credited at current rates. actor pulls permits.
r F			

06/27/2012 16:15 3216380086	
	#2936 P.001 /001
SUPERIOR SUPERIOR Where Quality Mattersf 2141 S. US Hwy. 1, Rockledge, FI 32955 Office: 321 636 2829 Fax: 321 638 0086	
Date: <u>6 27 12</u> Buyer: <u>SUNLAKE VILLAG</u> Address: <u>616 CRYSTAL LAKE</u> City: <u>COCOA</u> State: <u>FLA</u> Zip: Job Site: <u>FENCE LINE CONTIGUE</u> TO SEWAGE TREATMENT P	P.O.#: E Attn: $3ERRY$ DR Home Phone: Business Phone: $CELL$ $321-508-H71H$ In S Site Phone: LANTFax: $321-639-113H$
CHAIN LINK SPECIFICATIONS (All chain link por HEIGHT         03       06         03       06         04       08         05       0         05       0         06       0         07       0         08       0         09       0         00       0         00       0         01       0         02       0         03       0         04       0         05       0         05       0         06       0         07       0         08       0         09       0         00       0         00       0         00       0         00       0	sts set in concrete)         SIZES       NONE       PERMIT       CROSSSTREET         Walk Gates       OD       NEEDED       CANANERAL       GROJES         Dive Gate Posts       OD       VES       CORNER LOT       BLND         Walk Gate Posts       OD       ONO       O YES       NO
VINYL COAT O GREEN O 12-1/2 ga O 15-1/2 ga O 12-1/2 ga	PACE MAX TAKE DOWN & NOTES ALL POSTS HAUL AWAY FOOTAGE TO DE SET IN O. CONCRETE
PROVIDE AND INSTALL 900 ET OF H'O HIGH CHAIN LINK GALVANIZE FENCE AS SPECED ABOVE: FEES, TAXES AND PERMITS	>
INCLUDED FOR THE SUM OF \$8078	- -
Lump Sum Total <u>8076</u> Less Denosit H039	Se Fence to be installed following grade of property
Balance Due <u>H039</u>	O Fence to be installed with top of fence level (customer to fill gaps at bottom of france)
Buyer(s) Signature	Date Salesperson RONKANIA

The provisions on the reverse side of this contract are made part of this contract.

÷

ł



# Florida Department of Environmental Protection

Central District 3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803-3767 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Mimi A. Drew Secretary

## STATE OF FLORIDA DOMESTIC WASTEWATER FACILITY PERMIT

PERMITTEE: Sun Lakes Homeowners Association

RESPONSIBLE OFFICIAL: Thad Terry 5600 US Hwy 1 N Sharps, Florida 32927 (321) 639-8440 PERMIT NUMBER: FILE NUMBER: ISSUANCE DATE: EXPIRATION DATE;

FLA010353-003 FLA010353-003-DW2P November 1, 2010 October 27, 2015

FACILITY:

Sun Lakes Estates WWTF 616 Emerald Lake Drive Cocoa, FL 32926-4648 Brevard County Latitude: 28°25' 31.54" N Longitude: 80°46' 42.66" W

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and applicable rules of the Florida Administrative Code (F.A.C.). This permit does not constitute authorization to discharge wastewater other than as expressly stated in this permit. The above named permittee is hereby authorized to operate the facilities in accordance with the documents attached hereto and specifically described as follows:

#### WASTEWATER TREATMENT:

An existing 0.135 million gallon per day (MGD) annual average daily flow (AADF) permitted capacity extended aeration domestic wastewater treatment plant consisting of flow equalization, influent screening, aeration, secondary clarification, chlorination, and aerobic digestion of residuals.

#### **REUSE OR DISPOSAL:**

Land Application R-001: An existing 0.206 MGD AADF design capacity rapid infiltration basin (RIB) system. R-001 is a reuse system which consists of four (4) dual-cell rapid infiltration basins (297,000 +/- square feet total wetted area) located approximately at latitude 28°25' 34" N, longitude 80°46' 43" W. Flows are limited to 0.135 MGD AADF, the permitted capacity of the treatment facility.

IN ACCORDANCE WITH: The limitations, monitoring requirements, and other conditions set forth in this cover sheet and Part I through Part IX on pages 1 through 17 of this permit.

PERMITTEE: Sun Lakes Homeowners Association FACILITY: Sun Lakes Estates WWTF

# PERMIT NUMBER:FLA010353-003EXPIRATION DATE:October 27, 2015

#### I. RECLAIMED WATER AND EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

#### A. Reuse and Land Application Systems

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the permittee is authorized to direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.B.7.:

			Re	claimed Water Limitations	М	onitoring Requirement	S	
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Monitoring	Sample Type	Monitoring Site Number	Notes
Flow (To RIBs)	MGD	Max Max	0.135 Report	Annual Average Monthly Average	Continuous	Recording Flow Meter with Totalizer	FLW-1	See I.A.3
BOD, Carbonaceous 5 day, 20C	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Bi-monthly; every 2 months	8-hr FPC	EFA-1	
Solids, Total Suspended	mg/L	Max Max Max Max	20.0 30.0 45.0 60.0	Annual Average Monthly Average Weekly Average Single Sample	Bi-monthly; every 2 months	8-hr FPC	EFA-1	
Coliform, Fecal	#/100mL	Max Max Max	200 800 _Report	Annual Average Single Sample Monthly Geometric Mean	Bi-monthly; every 2 months	Grab	EFA-1	See I.A.4
рН	s.u.	Min Max	6.0 8.5	Single Sample Single Sample	5 Days/Week	Grab	EFA-1	
Chlorine, Total Residual (For Disinfection)	mg/L	Min	0.5	Single Sample	5 Days/Week	Grab	EFA-1	See I.A.5
Nitrogen, Nitrate, Total (as N)	mg/L	Max	12.0	Single Sample	Bi-monthly; every 2 months	8-hr FPC	EFA-1	See I.A.6
Nitrogen, Total	mg/L	Max	Report	Single Sample	Bi-monthly; every 2 months	8-hr FPC	EFA-1	
Phosphorus, Total (as P)	mg/L	Max	Report	Single Sample	Bi-monthly; every 2 months	8-hr FPC	EFA-1	

PERMITTEE:	Sun Lakes Homeowners Association
FACILITY:	Sun Lakes Estates WWTF

2. Reclaimed water samples shall be taken at the monitoring site locations listed in Permit Condition I.A.1. and as described below:

Monitoring Site	
Number	Description of Monitoring Site
FLW-1	Flow meter at chlorine contact tank.
EFA-1	Chlorine contact tank effluent.

- 3. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-601.200(17) and .500(6)]
- 4. The effluent limitation for the monthly geometric mean for fecal coliform is only applicable if 10 or more values are reported. If fewer than 10 values are reported, the monthly geometric mean shall be calculated and reported on the Discharge Monitoring Report. [62-600.440(4)(c)]
- 5. Total residual chlorine must be maintained for a minimum contact time of 15 minutes based on peak hourly flow. [62-610.510, 62-600.440(4)(b) and (5)(b)]
- 6. Nitrate nitrogen (NO<sub>3</sub>) concentration in the water discharged to the rapid rate reuse system shall not exceed 12.0 mg/L, or as required to comply with Rule 62-610.510, F.A.C. [62-610.510]

PERMITTEE:	Sun Lakes Homeowners Association	PERMIT NUMBER:	FLA010353-003
FACILITY:	Sun Lakes Estates WWTF	EXPIRATION DATE:	October 27, 2015

### B. Other Limitations and Monitoring and Reporting Requirements

1. During the period beginning on the issuance date and lasting through the expiration date of this permit, the treatment facility shall be limited and monitored by the permittee as specified below and reported in accordance with condition I.B.7.:

				Limitations	Monitoring Requirements			
Parameter	Units	Max/Min	Limit	Statistical Basis	Frequency of Analysis	Sample Type	Monitoring Site Number	Notes
Flow (Total Through Plant)	MGD	Max Max Max	0.135 Report Report	Annual Average Monthly Average Quarterly Average	Continuous	Recording Flow Meter with Totalizer	FLW-1	See I.B.4
Percent Capacity, (TMADF/Permitted Capacity) x 100	percent	Max	Report	Monthly Average	Monthly	Calculated	CAL-1	
BOD, Carbonaceous 5 day, 20C (Influent)	mg/L	Max	Report	Monthly Average	Bi-monthly; every 2 months	8-hr FPC	INF-1	See I.B.3
Solids, Total Suspended (Influent)	mg/L	Max	Report	Monthly Average	Bi-monthly; every 2 months	8-hr FPC	INF-1	See 1.B.3

£

2. Samples shall be taken at the monitoring site locations listed in Permit Condition I.B.1. and as described below:

Monitoring Site Number	Description of Monitoring Site
FLW-1	Flow meter at chlorine contact tank.
CAL-1	Calculate from daily flow.
INF-1	Raw influent to surge tank.

- 3. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters. [62-601.500(4)]
- 4. A recording flow meter with totalizer shall be utilized to measure flow and calibrated at least once every 12 months. [62-601.200(17) and .500(6)]
- 5. The sample collection, analytical test methods and method detection limits (MDLs) applicable to this permit shall be conducted using a sufficiently sensitive method to ensure compliance with applicable water quality standards and effluent limitations and shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantitation limits), which is titled "FAC 62-4 MDL/PQL Table (April 26, 2006)" is available at http://www.dep.state.fl.us/labs/library/index.htm. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
  - a. The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
  - b. The laboratory reported MDL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide an MDL, which is equal to or less than the applicable water quality criteria stated in 62-302, F.A.C.; and
  - c. If the MDLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated MDL shall be used.

When the analytical results are below method detection or practical quantitation limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report.

Where necessary, the permittee may request approval of alternate methods or for alternative MDLs or PQLs for any approved analytical method. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Approval of an analytical method not included in the abovereferenced list is not necessary if the analytical method is approved in accordance with 40 CFR 136 or deemed acceptable by the Department. [62-4.246, 62-160]

- 6. The permittee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by this permit. [62-601.500(5)]
- 7. Monitoring requirements under this permit are effective on the first day of the second month following permit issuance. Until such time, the permittee shall continue to monitor and report in accordance with previously effective permit requirements, if any. During the period of operation authorized by this permit, the permittee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e. monthly, toxicity, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this permit. Monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below.

# PERMITTEE: Sun Lakes Homeowners Association FACILITY: Sun Lakes Estates WWTF

PERMIT NUMBER: FL EXPIRATION DATE: Oc

FLA010353-003 October 27, 2015

<b>REPORT</b> Type on DMR	Monitoring Period	Due Date
Monthly or Toxicity	first day of month - last day of month	28 <sup>th</sup> day of following month
Quarterly	January 1 - March 31	April 28
	April 1 - June 30	July 28
	July 1 - September 30	October 28
	October 1 - December 31	January 28
Semiannual	January 1 - June 30	July 28
	July 1 - December 30	January 28
Annual	January 1 - December 31	January 28

DMRs shall be submitted for each required monitoring period including months of no discharge. The permittee shall make copies of the attached DMR form(s) and shall submit the completed DMR form(s) to the Department's Central District Office at the address specified in Permit Condition I.B.10. by the twenty-eighth (28th) of the month following the month of operation.

[62-620.610(18)][62-601.300(1),(2), and (3)]

- 8. During the period of operation authorized by this permit, reclaimed water or effluent shall be monitored annually for the primary and secondary drinking water standards contained in Chapter 62-550, F.A.C., (except for asbestos, color, odor, and corrosivity). These monitoring results shall be reported to the Department annually on the DMR. During years when a permit is not renewed, a certification stating that no new non-domestic wastewater dischargers have been added to the collection system since the last reclaimed water or effluent analysis was conducted may be submitted in lieu of the report. The annual reclaimed water or effluent analysis report or the certification shall be completed and submitted in a timely manner so as to be received by the Department's Central District Office by June 28 of each year. Approved analytical methods identified in Rule 62-620.100(3)(j), F.A.C., shall be used for the analysis. If no method is included for a parameter, methods specified in Chapter 62-550, F.A.C., shall be used. [62-601.300(4)][62-601.500(3)][62-610.300(4)]
- 9. The permittee shall submit an Annual Reuse Report using DEP Form 62-610.300(4)(a)2. on or before January 1 of each year. [62-610.870(3)]
- 10. Unless specified otherwise in this permit, all reports and other information required by this permit, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Central District Office at the address specified below:

Florida Department of Environmental Protection Central District Office 3319 Maguire Blvd Suite 232 Orlando, Florida 32803-3767

Phone Number - (407)894-7555 FAX Number - (850)412-0496 (All FAX copies and e-mails shall be followed by original copies.)

[62-620.305]

11. All reports and other information shall be signed in accordance with the requirements of Rule 62-620.305, F.A.C. [62-620.305]

#### II. RESIDUALS MANAGEMENT REQUIREMENTS

 The method of residuals use or disposal by this facility is transport to American Bio Clean Residuals Management Facility (RMF) or disposal in a Class I or II solid waste landfill. Transportation of the residuals to an alternative residuals management facility does not require a permit modification. However, use of an alternative residuals management facility requires the submittal of a copy of the agreement pursuant to Rule 62-640.880(1)(c), F.A.C., along with a written notification to the Department at least 30 days before transport of the residuals. [62-620,320(6),62-640.880(1)]

6

- 2. The permittee shall be responsible for proper treatment, management, use, and land application or disposal of its residuals. [62-640.300(5)]
- 3. The permittee shall not be held responsible for treatment, management, use, or land application violations that occur after its residuals have been accepted by a permitted residuals management facility with which the source facility has an agreement in accordance with Rule 62-640.880(1)(c), F.A.C., for further treatment, management, use or land application. [62-640.300(5)]
- 4. Disposal of residuals, septage, and other solids in a solid waste disposal facility, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with the requirements of Chapter 62-701, F.A.C. [62-640.100(6)(k)3&4]
- 5. If the permittee intends to accept residuals from other facilities, a permit revision is required pursuant to Rule 62-640.880(2)(d), F.A.C. [62-640.880(2)(d)]
- 6. The permittee shall keep hauling records to track the transport of residuals between facilities. The hauling records shall contain the following information:

#### Source Facility

- 1. Date and Time Shipped
- 2. Amount of Residuals Shipped
- 3. Degree of Treatment (if applicable)
- 4. Name and ID Number of Residuals Management Facility or Treatment Facility
- Signature of Responsible Party at Source Facility
- 6. Signature of Hauler and Name of Hauling Firm

**Residuals Management Facility or Treatment Facility** 

- 1. Date and Time Received
- 2. Amount of Residuals Received
- 3. Name and ID Number of Source Facility
- 4. Signature of Hauler
- 5. Signature of Responsible Party at Residuals Management Facility or Treatment Facility

These records shall be kept for five years and shall be made available for inspection upon request by the Department. A copy of the hauling records information maintained by the source facility shall be provided upon delivery of the residuals to the residuals management facility or treatment facility. The permittee shall report to the Department within 24 hours of discovery any discrepancy in the quantity of residuals leaving the source facility and arriving at the residuals management facility or treatment facility.

#### [62-640.880(4)]

7. Storage of residuals or other solids at the permitted facility shall require prior written notification to the Department. [62-640.300(4)]

#### III. GROUND WATER REQUIREMENTS

#### A. Construction Requirements

The Construction Requirements section is not applicable to this facility.

#### **B.** Operational Requirements

 For the Part IV Land Application System, all ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. For major users of reclaimed water (i.e., using 0.1 MGD or more), the zone of discharge shall extend horizontally 100 feet from the application site or to user's site property line, whichever is less, and vertically to the base of the surficial aquifer. For other users, the zone of discharge shall extend horizontally to the boundary of the general service area identified in the attached map and vertically to the base of the surficial aquifer. [62-520.200(26)] [62-520.465]

PERMITTEE:	Sun Lakes Homeowners Association
FACILITY:	Sun Lakes Estates WWTF

- 2. The ground water minimum criteria specified in Rule 62-520.400 F.A.C., shall be met within the zone of discharge. [62-520.400 and 62-520.420(4)]
- 3. During the period of operation authorized by this permit, the permittee shall sample ground water in accordance with this permit and the approved ground water monitoring plan prepared in accordance with Rule 62-520.600, F.A.C. [62-520.600][62-610.463]
- 4. The following monitoring wells shall be sampled quarterly. Sampling must be reasonably spaced to be representative of potentially changing conditions.

Facility MW Name	Permit Builder MW ID*	WAFR#	GMS#	Depth (Feet)	Aquifer Monitored	Well Type	New or Existing
MW -1	MWB-1	2575	3005A14849	10	Surficial	Background	Existing
MW -2	MWI-2	2574	3005A14850	10	Surficial	Intermediate	Existing
MW -3	MWC-3	2573	3005A14851	10	Surficial	Compliance	Existing

MWB = Background Well; MWI = Intermediate Well; MWC = Compliance Well

[62-520.600][62-610.463]

5. The following parameters shall be analyzed for each of the monitoring well(s) identified in Permit Condition(s) III. B. 4:

Parameter	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Water Level Relative to Feet, NGVD	Report	Feet	Grab	Quarterly
Nitrogen, Nitrate, Total (as N)	10	mg/L	Grab	Quarterly
Solids, Total Dissolved (TDS)	500	mg/L	Grab	Quarterly
Chloride (as Cl)	250	mg/L	Grab	Quarterly
Coliform, Fecal	4	#/100mL	Grab	Quarterly
pH	6.5-8.5	SU	Grab	Quarterly
Turbidity, Lab, Ntu	Report	NTU	Grab	Quarterly

[62-520.600(11)(b)] [62-601.300(3), 62-601.700, and Figure 3 of 62-601][62-601.300(6)] [62-520.300(9)]

- 6. If the concentration for any constituent listed in Permit Condition III. B. 5. in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative natural background quality shall be the prevailing standard. [62-520.420(2)]
- 7. In accordance with Part D of Form 62-620.910(10), water levels shall be recorded before evacuating wells for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (Feet, NGVD) at a precision of plus or minus 0.01 foot. [62-520.600(11)(C)] [62-610.463(3)(a)]
- 8. Ground water monitoring wells shall be purged prior to sampling to obtain representative samples. [62-601.700(5)] [62-160.210]
- Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department's Central District, Ground Water Section as being more representative of ground water conditions. [62-520.310(5)]
- 10. Ground water monitoring parameters shall be analyzed in accordance with Chapter 62-601, F.A.C. [62-620.610(18)]

PERMITTEE:	Sun Lakes Homeowners Association
FACILITY:	Sun Lakes Estates WWTF

11. Ground water monitoring test results shall be submitted on Part D of Form 62-620.910(10). A completed Certification Page shall accompany each quarter of monitoring data. For reuse or land application projects, the quarterly ground water monitoring results shall be submitted with the DMR as shown in the following schedule. [62-520.600(10) and (11)(b)] [62-601.300(3), 62.601.700, and Figure 3 of 62-601] [62-620.610(18)]

SAMPLE PERIOD	REPORT DUE DATE
January - March	April 28
April - June	July 28
July - September	October 28
October - December	January 28

- 12. If any monitoring well becomes damaged or cannot be sampled for some reason, the permittee shall notify the Department's Central District, Ground Water Section immediately and a written report shall follow within seven days detailing the circumstances and remedial measures taken or proposed. Repair or replacement of monitoring wells shall be approved in advance by the Department's Central District, Ground Water Section. [62-520.600][62-4.070(3)]
- 13. The Permittee shall provide verbal notice to the Department's Central District, Ground Water Section as soon as practical after discovery of a sinkhole within an area for the management or application of wastewater, wastewater residuals (sludges), or reclaimed water. The Permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Central District, Ground Water Section in a written report within 7 days of the sinkhole discovery. [62-4.070(3)]
- 14. Permittee shall install a concrete pad (of at least 2ft.x2ftx4in dimensions) at the intermediate well MWI-2, repair/replace broken hinges on all monitoring wells and secure wells with locking caps within 30-days of the final permit issuance. Upon completion of repair works, permittee shall provide photographs of all retrofitted wells to the Department's Groundwater Section.

#### IV. ADDITIONAL REUSE AND LAND APPLICATION REQUIREMENTS

#### A. Part IV Rapid Infiltration Basins

- 1. Advisory signs shall be posted around the site boundaries to designate the nature of the project area. [62-610.518]
- The maximum annual average loading rate to the four (4) dual-cell rapid infiltration basins (297,000 +/- square feet total wetted area) shall be limited to 1.11 inches per day (as applied to the entire bottom area). [62-610.523(3)]
- 3. The four RIBs normally shall be loaded for 7 days and shall be rested for 7 days. Infiltration ponds, basins, or trenches shall be allowed to dry during the resting portion of the cycle. [62-610.523(4)]
- 4. Rapid infiltration basins shall be routinely maintained to control vegetation growth and to maintain percolation capability by scarification or removal of deposited solids. Basin bottoms shall be maintained to be level. [62-610.523(6) and (7)]
- 5. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. [62-610.514 and 62-610.414]
- 6. Overflows from emergency discharge facilities on storage ponds or on infiltration ponds, basins, or trenches shall be reported as abnormal events in accordance with Permit Condition IX.20. [62-610.800(9)]

#### V. OPERATION AND MAINTENANCE REQUIREMENTS

#### A. Staffing Requirements

1. During the period of operation authorized by this permit, the wastewater facilities shall be operated under the supervision of a(n) operator(s) certified in accordance with Chapter 62-602, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category III, Class C facility and, at a minimum, operators with appropriate certification must be on the site as follows:

A Class C or higher operator 1/2 hour/day for 5 days/week and one visit each weekend. The lead/chief operator must be a Class C operator, or higher.

2. An operator meeting the lead/chief operator class for the plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. [62-699.311(1)]

#### B. Capacity Analysis Report and Operation and Maintenance Performance Report Requirements

- 1. The application to renew this permit shall include an updated capacity analysis report prepared in accordance with Rule 62-600.405, F.A.C. [62-600.405(5)]
- 2. The application to renew this permit shall include a detailed operation and maintenance performance report prepared in accordance with Rule 62-600.735, F.A.C. [62-600.735(1)]

#### C. Recordkeeping Requirements

- 1. The permittee shall maintain the following records and make them available for inspection on the site of the permitted facility.
  - a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
  - b. Copies of all reports required by the permit for at least three years from the date the report was prepared;
  - c. Records of all data, including reports and documents, used to complete the application for the permit for at least three years from the date the application was filed;
  - d. Monitoring information, including a copy of the laboratory certification showing the laboratory certification number, related to the residuals use and disposal activities for the time period set forth in Chapter 62-640, F.A.C., for at least three years from the date of sampling or measurement;
  - e. A copy of the current permit;
  - f. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
  - g. A copy of any required record drawings;
  - h. Copies of the licenses of the current certified operators; and

PERMITTEE:	
FACILITY:	

Sun Lakes Homeowners Association Sun Lakes Estates WWTF FLA010353-003 October 27, 2015

i. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and license number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities, including any preventive maintenance or repairs made or requested; results of tests performed and samples taken, unless documented on a laboratory sheet; and notation of any notification or reporting completed in accordance with Rule 62-602.650(3), F.A.C. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed.

[62-620.350, 62-602.650]

#### **VI. SCHEDULES**

1. The following improvement actions shall be completed according to the following schedule:

	Improvement Action	Completion Date
1.	Repair leaks to tank walls.	January 31, 2011
2.	Install a concrete pad (at least 2 feet x 2 feet x 4 inches) at intermediate	See III.B.14
	well MWI-2, repair/replace broken hinges on the monitoring wells and	
	secure all wells with locking caps. After the repairs are completed,	
	provide photographs of all retrofitted wells to the Department.	

#### [62-620.320(6)]

2. If the permittee wishes to continue operation of this wastewater facility after the expiration date of this permit, the permittee shall submit an application for renewal no later than one-hundred and eighty days (180) prior to the expiration date of this permit. Application shall be made using the appropriate forms listed in Rule 62-620.910, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C. [62-620.335(1) and (2)]

#### VII. INDUSTRIAL PRETREATMENT PROGRAM REQUIREMENTS

1. This facility is not required to have a pretreatment program at this time. [62-625.500]

#### VIII. OTHER SPECIFIC CONDITIONS

- 1. The permittee shall comply with all conditions and requirements for reuse contained in their consumptive use permit issued by the Water Management District, if such requirements are consistent with Department rules. [62-610.800(10)]
- 2. In the event that the treatment facilities or equipment no longer function as intended, are no longer safe in terms of public health and safety, or odor, noise, aerosol drift, or lighting adversely affects neighboring developed areas at the levels prohibited by Rule 62-600.400(2)(a), F.A.C., corrective action (which may include additional maintenance or modifications of the permitted facilities) shall be taken by the permittee. Other corrective action may be required to ensure compliance with rules of the Department. Additionally, the treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C. [62-600.410(8) and 62-640.400(6)]
- 3. The deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction (and conveyance) of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited, except as provided by Rule 62-610.472, F.A.C. [62-604.130(3)]
- 4. Collection/transmission system overflows shall be reported to the Department in accordance with Permit Condition IX. 20. [62-604.550] [62-620.610(20)]

۰.

- 5. The operating authority of a collection/transmission system and the permittee of a treatment plant are prohibited from accepting connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants (other than normal domestic wastewater constituents):
  - a. Which may cause fire or explosion hazards; or
  - b. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
  - c. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
  - d. Which result in the wastewater temperature at the introduction of the treatment plant exceeding 40°C or otherwise inhibiting treatment; or
  - e. Which result in the presence of toxic gases, vapors, or fumes that may cause worker health and safety problems.

[62-604.130(5)]

- 6. The treatment facility, storage ponds for Part II systems, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons. [62-610.518(1) and 62-600.400(2)(b)]
- Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit. [62-701.300(1)(a)]
- 8. Where required by Chapter 471 or Chapter 492, F.S., applicable portions of reports that must be submitted under this permit shall be signed and sealed by a professional engineer or a professional geologist, as appropriate. [62-620.310(4)]
- 9. The permittee shall provide verbal notice to the Department's Central District Office as soon as practical after discovery of a sinkhole or other karst feature within an area for the management or application of wastewater, wastewater residuals (sludges), or reclaimed water. The permittee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department's Central District Office in a written report within 7 days of the sinkhole discovery. [62-620.320(6)]
- 10. The permittee shall provide adequate notice to the Department of the following:
  - a. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620, F.A.C., if it were directly discharging those pollutants; and
  - b. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.

Adequate notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility.

[62-620.625(2)]

#### **IX. GENERAL CONDITIONS**

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. [62-620.610(1)]

PERMITTEE:	Sun Lakes Homeowners Association
FACILITY:	Sun Lakes Estates WWTF

- 2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications, or conditions of this permit constitute grounds for revocation and enforcement action by the Department. [62-620.610(2)]
- 3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3)]
- 4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4)]
- 5. This permit does not relieve the permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-620.610(5)]
- 6. If the permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee shall apply for and obtain a new permit. [62-620.610(6)]
- 7. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7)]
- 8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8)]
- 9. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to:
  - a. Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
  - b. Have access to and copy any records that shall be kept under the conditions of this permit;
  - c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
  - d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.

[62-620.610(9)]

- 10. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, F.S., or Rule 62-620.302, F.A.C. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. [62-620.610(10)]
- 11. When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. [62-620.610(11)]
- 12. Unless specifically stated otherwise in Department rules, the permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. [62-620.610(12)]
- 13. The permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C. [62-620.610(13)]
- 14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. [62-620.610(14)]
- 15. The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility or activity and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. [62-620.610(15)]
- 16. The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, F.A.C., and the Department of Environmental Protection Guide to Permitting Wastewater Facilities or Activities Under Chapter 62-620, F.A.C., at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2), F.A.C., for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. [62-620.610(16)]
- 17. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
  - a. A description of the anticipated noncompliance;
  - b. The period of the anticipated noncompliance, including dates and times; and
  - c. Steps being taken to prevent future occurrence of the noncompliance.

[62-620.610(17)]

۰.,

- a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10), or as specified elsewhere in the permit.
- b. If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
- c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
- d. Except as specifically provided in Rule 62-160.300, F.A.C., any laboratory test required by this permit shall be performed by a laboratory that has been certified by the Department of Health Environmental Laboratory Certification Program (DOH ELCP). Such certification shall be for the matrix, test method and analyte(s) being measured to comply with this permit. For domestic wastewater facilities, testing for parameters listed in Rule 62-160.300(4), F.A.C., shall be conducted under the direction of a certified operator.
- e. Field activities including on-site tests and sample collection shall follow the applicable standard operating procedures described in DEP-SOP-001/01 adopted by reference in Chapter 62-160, F.A.C.
- f. Alternate field procedures and laboratory methods may be used where they have been approved in accordance with Rules 62-160.220, and 62-160.330, F.A.C.

#### [62-620.610(18)]

- 19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date. [62-620.610(19)]
- 20. The permittee shall report to the Department's Central District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
  - a. The following shall be included as information which must be reported within 24 hours under this condition:
    - (1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
    - (2) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
    - (3) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
    - (4) Any unauthorized discharge to surface or ground waters.
  - b. Oral reports as required by this subsection shall be provided as follows:
    - (1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:
      - (a) Name, address, and telephone number of person reporting;
      - (b) Name, address, and telephone number of permittee or responsible person for the discharge;
      - (c) Date and time of the discharge and status of discharge (ongoing or ceased);

#### PERMITTEE: Sun FACILITY: Sun

۰.

Sun Lakes Homeowners Association Sun Lakes Estates WWTF

FLA010353-003 October 27, 2015

- (d) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
- (e) Estimated amount of the discharge;
- (f) Location or address of the discharge;
- (g) Source and cause of the discharge;
- (h) Whether the discharge was contained on-site, and cleanup actions taken to date;
- (i) Description of area affected by the discharge, including name of water body affected, if any; and
- (j) Other persons or agencies contacted.
- (2) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's Central District Office within 24 hours from the time the permittee becomes aware of the circumstances.
- c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Central District Office shall waive the written report.

[62-620.610(20)]

- The permittee shall report all instances of noncompliance not reported under Permit Conditions IX.17., IX.18., or IX.19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Permit Condition IX.20. of this permit. [62-620.610(21)]
- 22. Bypass Provisions.
  - a. "Bypass" means the intentional diversion of waste streams from any portion of a treatment works.
  - b. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:
    - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
    - (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
    - (3) The permittee submitted notices as required under Permit Condition IX.22.b. of this permit.
  - c. If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Permit Condition IX.20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
  - d. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Permit Condition IX.22.a.1. through 3. of this permit.
  - e. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Permit Condition IX.22.a. through c. of this permit.

#### [62-620.610(22)]

- 23. Upset Provisions.
  - a. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the permittee.
    - (1) An upset does not include noncompliance caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, careless or improper operation.

#### PERMITTEE: FACILITY:

Sun Lakes Homeowners Association Sun Lakes Estates WWTF

- (2) An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of upset provisions of Rule 62-620.610, F.A.C., are met.
- b. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:
  - (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
  - (2) The permitted facility was at the time being properly operated;
  - (3) The permittee submitted notice of the upset as required in Permit Condition IX.20, of this permit; and
  - (4) The permittee complied with any remedial measures required under Permit Condition IX.5. of this permit.
- c. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the permittee.
- d. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23)]

Executed in Orlando, Florida.

#### STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

enco Dennise Judy

Program Manager Domestic Waste

Date: October 29, 2010

Attachment(s): Discharge Monitoring Report From: "Tom Stirtzinger" <Tom.Stirtzinger@frwa.net>

Subject: Sun Lake 2010

- Date: June 21, 2012 9:52:51 PM EDT
- To: <jpadrick67@bellsouth.net>
- 1 Attachment, 1.8 MB

#### FLORIDA RURAL WATER ASSOCIATION 2970 Wellington Circle West, Suite 101 Tallahassee, FL 32308

WEIR OR FLUME CALIBRATION Flow Values Obtained by Using a Weir or Flume

FACILITY NAME & ID #: Sun Lake Estates / FLA910353

FACILITY LOCATION: Canaveral Groves

PRIMARY DEVICE					
V-NOTCH WEIR	PARSHALL FLUME	<b>RECTANGULAR WEIR</b>			
DEGREE OF V-NOTCH	CREST LENGTH (FT)				
45	N/A	N/A			

SECONDARY DEVICE

Gauge setting comparison using yardstick or carpenters rule:

@Setisfactory UUssatisfactory

Physical inspection of primary device approach, device and discharge:

ZSatisfactory UUsatisfactory

**TYPE:** Mechanical Float

MAKE/MODEL/SERIAL#: Stevens/61R / #113038-84

	LOW FLOW	MODERATE FLOW	HIGH FLOW
STAFF GAGE READING (FT)	.0	.13	.20
ACTUAL FLOW (MGD)	0	.0041	.012
TOTALIZER OR RECORDER READING(MGD)	0	.004	.0125
PERCENT DIFFERENCE (%)	0 %	2 %	4 %

**Physical Inspection of Secondary Device: Totalizer Accuracy Check Using Stopwatch:**  ElSatisfactory DUnsatisfactory Satisfactory UUsatisfactory

COMMENTS:

I hereby certify that the above test was performed in accordance with the best available technology.

am TECHNICIAN SIGNATURE: Tom Stirtzinger (800) 872-8207

DATE: 1/26/10

WWVPUMPFORM.FRM/F/11/96

## FLORIDA RURAL WATER ASSOCIATION 2970 Wellington Circle West, Suite 101 Tallahassee, FL 32308

WEIR OR FLUME CALIBRATION Flow Values Obtained by Using a Weir or Flume

FACILITY NAME & ID #: Sun Lake Estates / FLA010353

#### FACILITY LOCATION: Canaveral Groves

#### PRIMARY DEVICE

V-NOTCH WEIR	PARSHALL FLUME	<b>RECTANGULAR WEIR</b>
<b>DEGREE OF V-NOTCH</b>	WIDTH OF THROAT (IN)	CREST LENGTH (FT)
45	N/A	N/A

Gauge setting comparison using yardstick or carpenters rule:

■Satisfactory □Unsatisfactory

Satisfactory Unsatisfactory

Physical inspection of primary device approach, device and discharge:

SECONDARY DEVICE

**TYPE: Mechanical Float** 

MAKE/MODEL/SERIAL#: Stevens/61R / #113038-84

	LOW FLOW	MODERATE FLOW	HIGH FLOW
STAFF GAGE READING (FT)	.0	.20	.42
ACTUAL FLOW (MGD)	0	.012	.0765
TOTALIZER OR RECORDER READING(MGD)	0	.0125	.075
PERCENT DIFFERENCE (%)	0 %	4 %	2 %

Physical Inspection of Secondary Device: Totalizer Accuracy Check Using Stopwatch: Satisfactory Unsatisfactory Satisfactory Unsatisfactory

#### COMMENTS:

I hereby certify that the above test was performed in accordance with the best available technology.

m **TECHNICIAN SIGNATURE:** -DATE: 1/20/11 Fom Stirtzinger (800) 872-8207

WW\PUMPFORM.FRM/1/11/96

## FLORIDA RURAL WATER ASSOCIATION

2970 Wellington Circle West, Suite 101 Tallahassee, FL 32308 (850) 668-2746

#### PUMPING RATE CALIBRATION USING PORTABLE FLOWMETER Flow Values Obtained by Elapsed Time Measurement on Pumps

DATE:	1/10/12	
FACILITY 1	NAME & ID NUMBER: Sun Lake Estates / FLA010353	
FACILITY I	LOCATION: Canaveral Groves	
LIFT STAT	ON LOCATION: Effluent Dosing Pumps	
TESTING N	ETHOD/INSTRUMENTATION: Portable Doppler Flow	meter
SIZE & TYI	'E OF PUMPS: 2" Submersible Pumps	
	PUMP 1 FLOW (GPM)	PUMP 2 FLOW (GPM)
	211	212
	210 AVG = 211 GPM	210 AVG=211 GPM
	211	211

#### HOUR METER ACCURACY CHECK

		PUMP I			PUMP	2	
DATE	TIME START	TIME STOP	ACCURATE Y - N	DATE	TIME START	TIME STOP	ACCURATE Y - N
1/10/12	0:00	1:00	Y	1/10/12	9:00	1:00	Y
				. <u>L</u>			

#### CALIBRATION RESULTS

CALIBRATION INFORMATION	PUMP 1	PUMP 2
Previous Pump Calibration(GPH) & Date		
Current Pump Calibration (GPH)	12660	12660
Percent Difference (%)	%	%

COMMENTS:

I hereby certify that the above pump tests were performed in accordance with the test instrumentation manufacturer's procedures and training and that to the best of my knowledge the information recorded herein is true and accurate.

**TECHNICIAN SIGNATURE** 

Mon Tom Stirtzinger (800) 872-8207

DATE 1/10/12

WW\PUMPFORM.FRM/REV/11/14/96



**ESTIMATE** COASTAL SEPTIC SERVICES, Inc. P.O. BOX 927 SHARPES, FLORIDA 32959 OFFICE: (321) 632-7909 • FAX (321) 632-1565 COASTALSEPTIC.COM

SUBMITTED TO Atlantis Investments	PHONE	639-1124	DATE_	June 12, 2012
ADDRESS	JOB ADDRESS	hauling sludge		
TANK(S)	EST. SAND	<u></u>		
DRAINFIELD(S)	EST. HAUL OFF/LI	IME		
SIMPLEX DOSING SYSTEM				
DUPLEX DOSING SYSTEM	PERMIT FEE			
MOUND STABILIZATION	PLOT PLAN/DRAFT			
SLEEVE WATER LINE \$8.50 PER L.F.	FILTER			
ABANDON TANK(S)		\$328.00 per load	Ł	
OTHER MATERIAL / WORK TOTAL \$3280.00 PLUS a \$5	.00 Fuel charge	1		
*********************************Based on 10 - loads*****	*****	****		
				<u>, , , , , , , , , , , , , , , , , , , </u>

- 1. OWNER TO PROVIDE ACCESS
- 2. SEPTIC SAND AND HAUL OFF ARE ONLY AN ESTIMATE. CUSTOMER WILL BE CHARGED ONLY FOR THE AMOUNT ACTUALLY USED OR HAULED OFF. (INIT.)
- 3. COASTAL SEPTIC SERVICES, INC. IS NOT RESPONSIBLE FOR ANY DAMAGE TO EXISTING LANDSCAPING, DRIVE-WAYS, SPRINKLER SYSTEMS, UNDERGROUND OR ORNAMENTS, STRUCTURES AND TREES WITHIN 25 FEET OF THE WORK AREA OR ACCESS AREA.
- 4. THESE PRICES ARE GOOD FOR 30 DAYS.
- 5. PAYMENTS 50% PRIOR TO APPLYING FOR PERMIT REMAINDER DUE WHEN CREW COMES TO COVER (UNLESS PRIOR ARRANGEMENTS HAVE BEEN MADE). (INIT.)
- 6. IF PUMP SYSTEM REQUIRED THE ELECTRICAL WORK AND HOOK UP TO BE DONE BY OTHERS.
- 7. FINAL GRADE AND/OR SOD TO BE DONE BY OTHERS.

WE PROPOSE TO HEREBY FURNISH MATERIAL AND LABOR-COMPLETE IN ACCORDANCE WITH THE TERMS ABOVE, FOR THE ESTIMATED SUM OF:

> \$3,280.00 (\$

Dana Whitlock COASTAL REPRESENTATIVE

June 12, 2012 DATE:

ACCEPTANCE OF ESTIMATE & CONTRACT--THE PRICES AND TERMS ARE SATISFACTORY AND ARE HEREBY ACCEPTED. YOU ARE AUTHORIZED TO DO THE WORK AS SPECIFIED. PAYMENT WILL BE MADE AS OUTLINED ABOVE.

DATE OF ACCEPTANCE \_\_\_\_\_\_SIGNATURE \_\_\_\_\_



Florida Department of Environmental Protection

Central District 3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803-3767

SENT VIA EMAIL TO: matlantisinvest@cfl.rr.com

March 23, 2011

SUN LAKE ESTATES HOMEOWNERS ASSOCIATION 4865 LAKE ONTARIO DRIVE COCOA, FLORIDA 32926 OCD-C-WW-11-0206

ATTENTION THAD TERRY OWNER

> Brevard County - DW Sun Lake Estates WWTF Wastewater Facility - Permit No. FLA010353 Noncompliance Letter

Dear Mr. Terry:

On February 16, 2011, Department personnel conducted a routine inspection of your wastewater facility. A copy of the inspection report is enclosed for your review. Please note the items listed below which need to be addressed:

- The influent and effluent composite samplers were not programmed to collect flowproportioned composite samples. Samples are to be collected in accordance with the Department's Standard Operating Procedures FS 2400 2.28 Wastewater Sampling.
- The Nitrate result reported on the Discharge Monitoring Report (DMR) for June 2010 was 18.0 milligrams per Liter (mg/L), which exceeded the nitrate limit of 12.0 mg/L.
- 3. A review of the groundwater files for this facility indicates the following deficiencies:
- a. Analysis results for nitrate and fecal coliform were reported without the qualifier U or a less than symbol (<) on groundwater monitoring reports for the fourth quarter

www.dep.state.fl.us

Rick Scott Governor

Jennifer Carroll Lt, Governor

Herschel T. Vinyard Jr. Secretary Sun Lake Estates Homeowners Association OCD-C-WW-11-0206 Page 2 of 2

of 2009 and first, second and third quarters of 2010. On all future submittals, if qualifiers are provided as part of the results, the results and qualifiers must be reported on the groundwater monitoring report forms.

b. Part VI, Schedules, and Part III B 14 of the current permit require the permittee to install a new concrete pad for intermediate well MW-2 and to repair or replace the broken hinges on all monitoring wells. In addition locking caps are to be installed on all wells. This work was to be completed within 30 days of issuance of the permit or by December 1, 2010. Once completed the permittee was to provide photographs of the work completed to the Groundwater Section. The Groundwater Section has not received confirmation that these items have been completed. Complete these items as soon as possible and submit photographs of the work completed.

The Department requests a written response addressing the items listed above within 14 days from the date of this letter. Your response should include an explanation of any corrective actions that either been taken or that you plan to take. Please note that this letter and report, being part of the Departments investigation, is preliminary to agency action in accordance with Section 120.57(5), Florida Statutes. Please direct ground water questions to Marsha Johnson at (407) 893-3308, EXT. 2275. Any other questions should be addressed to Tom Powers at (407) 893-3313.

Sincerely,

Clarence anderson

Clarence Anderson Environmental Supervisor Wastewater Compliance/Enforcement

CA/tp/ar

**Enclosure:** Inspection Report

cc: Anil Desai, Program Manager, FDEP Ground Water Section

. .

COMET	ENTRY	DATE
	1	1

#### FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

## WASTEWATER COMPLIANCE INSPECTION REPORT

FACILITY AND INSPECTION INFORMATION @ = Ortional

Name and Physical Location of Pacility     WATR ID:     County     Entry Desc/Time       SUN I_AKE ESTATES WWTF     FLA010353     DREVARD     2/16/2011     10/4:       SHARPES LAKE BLVD     Phone     @ Exit Date/Time       SHARPES, FL     321/639-0370     2/16/2011     11/4:       Name(s) of Field Representatives(s)     Thic     Phone     Phone       THAD TERRY     PRESIDENT     12/031_64/0	1
SUN 1.4KE ESTATES WW7F         FLA010353         DREVARD         2/36/2031         10:4:           SHARPES LAKE BLVD         Phone         @ Exit Date/Time         Bate/Time         321/639-0370         2/36/2011         11:4:           SHARPES, FL         321/639-0370         2/36/2011         11:4:         11:4:           Name(s) of Field Representatives(a)         Thic         Phone         Phone           THAD TERRY         PRESIDENT         121031-8440         121031-8440	4
HARPES LAKE BLVD     Phone     @ Exit Date/Time       BHARPES, FL     321/639-0370     2//62011       Name(s) of Field Representatives(a)     Thic     Phone       "HAD TERRY     PRESIDENT     321/030-0370	-
SHARPES, FL 321/639-0370 2/16/2011 11:40 Nome(s) of Field Representatives(a) Thic Phone THAD TERRY PRESIDENT 121/031.6440	5
Name(s) of Field Representatives(a) Title Phone THAD TERRY PRESIDENT 1210011.8440	3
THAD TERRY PRESIDENT 12 INTLALAG	
+Brout Aib	
JERRY PADRICK OPERATOR 321/508-4714	
Name and Address of Permittee or Designated Representative Title Phone @ Operator Co	Hification #
SUN LAKE ESTATES HOME OWNERS ASSOCIATION OWNER 216/871-6445	
P.O. BOX 430	
SHARPES, FL 32959	
Expension Type: C E J Samples Takes(Y/N): (a) Sample ID#: Samples Solit (Y/N)	
Significant work compliance Chiefle Should be Keylewed when Out of Compliance Ratings Are Given in Areas Marked I	tions to
PERMITSION PROFESSION PROFES	
Spendent-vort-compliance Contract Should be Reviewed when Out of Compliance Ratings Are Given in Areas Marked 1           PERMITSORDER         SELENDNIP Contract         Even HTV OPERAtions         End of the Permit           C         I.e Permit         IC         J. Laboratory         IC         G. Facility Site Review         NC         S. • Effluent Que Areas	uality
Short can - vone Compliance Contents Short do to the compliance Ratings Are Given in Areas Marked 1           PERMITS ORDERS         SPLEXION RORN         EVENTS OF Compliance Ratings Are Given in Areas Marked 1           C         1.4 Permit         IC         3. Laboratory         IC         6. Facility Site Review         NC         9. • Effluent Que Not to the Compliance Schedules         NC         4. Sampling         IC         7. Flow Measurement         IC         10. • Effluent Di	uality Sposal
Spentician-compliance Contents Statutage Reviewed when Out of Compliance Ratings Are Given in Areas Marked I         PERMITS ORDERS       SPEC Formula       Formula       Formula         C       1.4 Permit       IC       3. Laboratory       IC       6. Facility Site Review       NC       9. Effluent Qr         NC       2. Compliance Schedules       NC       4. Sampling       IC       7. Flow Measurement       IC       10. Effluent Di         IC       5. Records & Reports       IC       8. Operation & Maintenance       IC       11. Residuals/S	uality sposal iludge
Significance Compliance Contents     Sound on Reviewed when Out of Compliance Ratiogs Are Given in Areas Marked 1       Figure 1     State store     Figure 1       IC     1. • Permit     IC     3. Laboratory     IC     6. Facility Site Review     NC     9. • Effluent Que Note Compliance Schedules       NC     2. • Compliance Schedules     NC     4. Sampling     IC     7. Flow Measurement     IC     10. • Effluent Di       IC     5. • Records & Raports     IC     8. • Operation & Maintenance     IC     II. Residuals/S       I4. Other;     I4. Other;     IA. • SRO     IA. • SRO     IA. • SRO     IA. • SRO	uality isposal iludge er
Significant Non-Compliance Contents Standa, de Reylewed when Out of Compliance Ratiogs Are Given in Areas Marked 1       Structure of the standard of t	uality isposal iludge or iy
Skontage Concerns Shortaging Concerns Short	uality isposal iludgc or :y
Specific compliance       Control of Compliance       Compliance <thcompliance< td=""><td>uality isposal Siudge ter Ty</td></thcompliance<>	uality isposal Siudge ter Ty
Significant-Out-Office/fhrme: Number         Significant-Out-Office/fhrme: Number         Significant-Out-Office/fhrme: Number         Significant-Out-Office/fhrme: Number         Significant-Out-Office/fhrme: Number         District Office/fhrme: Number	uslity isposal Sludge or -y
Specific campitance       Control of Compliance       Campitance       Campitance <thcampitance< th="">       Campitance</thcampitance<>	isposal Sludge or 
Spentree of Reviews       Note Compliance Compliance Compliance Compliance Reviewed when Out of Compliance Ratings Are Given in Areas Marked I         FENTLESCROPES       Stresses Should be Reviewed when Out of Compliance Ratings Are Given in Areas Marked I         IC       1.0 Permit       IC       Stresses Reviewed When Out of Compliance Ratings Are Given in Areas Marked I         IC       1.0 Permit       IC       Stresses Reviewed When Out of Compliance Ratings Are Given in Areas Marked I         IC       1.0 Permit       IC       Stresses Reviewed When Out of Compliance Ratings Are Given in Areas Marked I         IC       1.0 Permit       IC       Stresses Reviewed When Out of Compliance Ratings Are Given in Areas Marked I         IC       1.0 Permit       IC       Stresses Reviewed Reviewed When Out of Compliance Ratings Are Given in Areas Marked I         IC       1.0 Permit       IC       For Measurement       IC       IC       Permit         IC       1.0 Permit       IC       Stephine Reviewed Review	isposal Sludge or 27 14, 2011
Significant-Compliance Contents Sharido, De Reylewed when Out of Compliance Ratings Are Given in Areas Marked I         PERMITS GROPES       SET PERMITS       FOR PERATIONS       FIFTH ENTERDS         IC       1.4 Permit       IC       3. Laboratory       IC       6. Facility Site Review       NC       9. Effluent Q         NC       2. Compliance Schedules       NC       4. Sampling       IC       7. Flow Measurement       IC       10. Effluent Q         NC       2. Compliance Schedules       NC       4. Sampling       IC       7. Flow Measurement       IC       10. Effluent Q         IC       5. Records & Reports       IC       8. Operation & Maintenance       IC       II. Residuals/C         I4. Other:       NA       13. #SSO Surve       NA       13. #SSO Surve         Pacifity sml/or Order Compliance       In-Compliance       Out-OF-Compliance       Significant-Ont-OF-Compliance         Recommended Actions:       NONCOMPLIANCE LETTER       District Office/Thome Number       Date         Yame(a) and Signature(s) of Inspectur(s)       Central (407)893-3313       March         Paster       Out       District Office/Thome Number       Date         Paster       Out       District Office/Thome Number       Date         Date       Date	isposal Sludge or 27 14, 2011
SPONDER-VOR-Compliance Contrast Strand. De Régioned when Out of Compliance Ratings Are Given in Areas Marked I         FLICHTSORDERS       SELEXION CONTRACTOR         IC       1.4 Permit       IC       3. Laboratory       IC       6. Facility Site Review       NC       9. Effluent Q         NC       2. Compliance Schedules       NC       4. Sampling       IC       7. Flow Measurement       IC       10. Effluent Q         NC       2. Compliance Schedules       NC       4. Sampling       IC       8. Operation & Maintenance       IC       11. Residuals/S         IC       3. Records & Reports       IC       8. Operation & Maintenance       IC       11. Residuals/S         Id       Other:       NA       13. eSSO Surve       NA       13. eSSO Surve         Pacifity studies Order Compliance       In-Compliance       Cur-Di-Compliance       Significant-Out-Of-Compliance         Recommended Actions: NONCOMPLIANCE LETTER       In-Compliance       Distrier Office/Flume Number       Date         IOM POWERS       Town       Town       Distrier Office/Flume Number       Date         Central (407)893-3313       March       Central (407)893-7876       3/22/1	1 1 1 1 1 1 1 1 1 1 1 1 1 1
Significant-Vort Compliance Compliance Compliance Compliance Ratiogs Are Given in Areae Marked 1         C       1.4 Permit       IC       3. Laboratory       IC       6. Facility Site Review       NC       9. Effluent Q         NC       2. Compliance Schedules       NC       4. Sampling       IC       7. Flow Measurement       IC       10. Effluent Q         NC       2. Compliance Schedules       NC       4. Sampling       IC       8. Operation & Maintenance       IC       11. Residuals/2         NC       3. ecords & Rapons       IC       8. Operation & Maintenance       IC       11. Residuals/2         NC       14. Other:       NA       13. #SSO Surve       NA       13. #SSO Surve         *acility smb/or Order Compliance       In-Compliance       Our-Of-Compliance       Significant-Out-Of-Compliance         tecommended Actions:       NONCOMPLIANCE LETTER       In-Compliance       District Office/Phone Number       Date         IOM POWERS       Instruct Querter Compliance       Central (407)893-3313       March         Signatures of Reviewer       Valence Querter       District Office/Phone Number       Date         ILARENCE ANDERSON       Valence Querter       Central (407)893-7876       3/22/1         ingle Event Violation Code(s):       Valence       Querter	1

Revised: October 2010

#### INSPECTION COMMENTS

An existing 0.135 MGD annual average daily flow (AADF) design capacity extended aeration wastewater treatment facility consisting of influent screening, flow equalization, aeration, clarification, chlorination, filtration, and aerobic digestion.

PERMIT: In compliance. FLA010353 issued 11/1/2010 expires 10/27/2015.

COMPLIANCE SCHEDULES: Out of compliance.

1.	Repair leaks to tank walls.	January 31, 2011
2.	Install a concrete pad (at least 2 feet x 2 feet x 4 inches) at intermediate well	Part VI, Schedules, and Part
	MWI-2, repair/replace broken hinges on the monitoring wells and secure all	III B 14
	wells with locking caps, After the repairs are completed, provide photographs of	
	all retrofitted wells to the Department.	

#### **RECORDS AND REPORTS:** In compliance.

Bound logbook on-site. C-operator on site 1/2 an hour a day for 5 days a week and one weekend visit. Copy of permit onsite. Discharge Monitoring Reports (DMRs), lab results and chains of custody are to be stored on site for Department review. DMRs have correct information submitted. Operations to correct DMRs reporting percent capacity and qualifiers. Corrections to be resubmitted to the Department.

LABORATORY: In compliance. PACE Laboratory. Department of Health certified.

#### SAMPLING: Out of compliance.

Grab samples are being taken for the influent and effluent. An 8-hour composite sample of influent and effluent is being performed for nitrates, Carbonaceous Biochemical Oxygen Demand (CBOD<sub>5</sub>) and Total Suspended Solids (TSS). The influent and effluent composite samplers were not programmed to collect flow-proportioned composite samples. Samples are to be collected in accordance with the Department's Standard Operating Procedures FS 2400 2.28 Wastewater Sampling.

FACILITY SITE REVIEW: In compliance.

Access: Locked gate with fence. Signs posted. Aeration: Bar screen. Marloff system with surge control. Two blowers, alternate. Brown foam noted. Slight earthy odor. Aerobic digester. Clarifier: Chlorine added to weirs for algae control. CCC: Hypochlorination. Effluent clear in chamber. Well water utilized for cleanup.

FLOW MEASUREMENT: In compliance. Stevens flow meter with chart recorder. Chart recorder not being utilized due to low flows. Documentation of calibration for the flow meter was performed on 1/2011.

OPERATION AND MAINTENANCE: In compliance. Continue to seal/repair scepage noted on the east wall of the digester and chlorine contact chamber.

EFFLUENT: Out of compliance.

Clear. Minor. Review of the DMRs from by Orlando staff from 4/2010 to 1/2011 indicated: The Nitrate result reported on the Discharge Monitoring Report (DMR) for June 2010 was 18.0 milligrams per Liter (mg/L), which exceeded the nitrate limit of 12.0 mg/L. TRC was 0.5 mg/L.

#### EFFLUENT DISPOSAL: In compliance.

0.206 MGD AAD rapid rate restricted access percolation ponds. (R-001). Consists of (4) dual cell percolation ponds. Saturation in ponds is excellent. 4 fect freeboard noted.

#### GROUND WATER: Out of compliance.

ground water monitoring report forms.

A review of the ground water files for this facility indicates the following deficiencies: Analysis results for nitrate and fecal coliform were reported without the qualifier U or a less than symbol (<) on ground water monitoring reports for the fourth quarter of 2009 and first, second and third quarters of 2010. On all future submittals, if qualifiers are provided as part of the results, the results and qualifiers must be reported on the

Part VI, Schedules, and Part III B 14 of the current permit require the permittee to install a new concrete pad for intermediate well MW-2 and to repair or replace the broken binges on all monitoring wells. In addition locking caps are to be installed on all wells. This work was to be completed within 30 days of issuance of the permit or by December 1, 2010. Once completed the permittee was to provide photographs of the work completed to the Ground Water Section. The Ground Water Section has not received confirmation that these items have been completed. Please complete these items as soon as possible and submit photographs of the work completed.

RESIDUALS MANAGEMENT: In compliance. Solids disposed of by American Bio-clean.

OTHER:

TO: Florida Department of Environmental Protection (Clarence Anderson)

RE: Compliance response for Sunlake Estates Permit #FLA010353 DATE: March 28, 2011

Dear Mr. Anderson,

5 × 5 5

The following deficiencies will be addressed in order of noncompliance.

- 1. The purchase of influent and effluent composite samplers have been priced at a cost of \$6500.00 each for new. I currently have a system that does not backflush the old sample from the tubing and I am asking for some time to locate and purchase reconditioned compliant samplers. This would be greatly appreciated as the owner, Mr. Terry, has given me the approval to buy those systems. Six months to locate and purchase would be greatly appreciated.
- 2. The nitrate reported for 06/2010 exceeded limits and this may be a lab error or a very heavy thunderstorm may have pushed a slug through. After operating for 11 years this site, this is the first failed sample.
- 3. A. Qualifiers to the quarterly monitoring well reports will be added in future reports as required.

B. All the monitoring wells have been repaired and approved as acceptable by Marsha Johnson via through e-mailing pictures of each well. She also confirmed through e-mail a thank you letter of completion prior to 12/01/2010.

Thank you,

Should you have any questions or concerns please call me at 321-508-4714

Sincerely, Jerry Padrick



## Florida Department of Environmental Protection

Central District 3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803-3767 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

SENT VIA E-MAIL TO: matlantisinvest@cfl.rr.com

July 30, 2010

SUN LAKE ESTATES HOMEOWNERS ASSOCIATION 4865 LAKE ONTARIO DRIVE COCOA, FLORIDA 32926

ATTENTION THAD TERRY OWNER

> Brevard County - DW Sun Lake Estates WWTF Wastewater Facility - Permit No. FLA010353 Noncompliance Letter

Dear Mr. Terry:

On May 27, 2010, Department personnel conducted a routine inspection of your wastewater facility. A copy of the inspection report is enclosed for your review. Upon reviewing the Ground Water Monitoring files, the following items listed below need to be addressed:

- The Department has not received the groundwater monitoring reports for the fourth quarter of 2009 and first quarter of 2010. These reports were due by the end of October 2009 and the end of April 2010 respectively. Submit these reports as soon as possible.
- 2. Fecal collform results were reported above the primary standard of 4 fecal collform colonies per 100 milliliters (fcc/100mL) in the groundwater samples from all wells for the third quarter of 2009 at 10 fcc/100mL. Determine the cause of these concentrations and report this to the Department. If the groundwater samples were analyzed using less than 25 mL of sample, Report what changes the laboratory will make to meet the primary groundwater standard requirement.

The Department requests a written response addressing the items listed above within 14 days from the date of this letter. Your response should include an explanation of any corrective actions that either have been taken or that you plan to take. Please note that this letter and report, being part of the Departments investigation, is preliminary to agency action in accordance with Section 120.57(5), Florida Statutes. Please direct ground water questions to Marsha Johnson at (407) 893-3308, EXT. 2275. Any other questions should be addressed to Tom Powers at (407) 893-3313.

Sincerely,

Elarence Redences

Clarence Anderson Environmental Supervisor Wastewater Compliance/Enforcement

CA/tp/ar

Enclosure: Inspection Report

cc: Anil Desai, FDEP Ground Water Section, anil.desai@dep.state.fl.us

"More Protection, Less Process" www.dep.state.fl.us OCD-C-WW-10-0521

\_\_\_\_\_

.

COMET ENTRY DATE --/--/--

## FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

## ante i serre WASTEWATER COMPLIANCE INSPECTION REPORT

FACILITY AND INSPECTION INFORMATION

FAC		· · · · · · · · · · · · · · · · · · ·					Abenuel
Name and Physical Location of Facility		WAFR ID:		County		Eatry 1	Date/Time
SUN LAKE ESTATES WWTF		FLA010353		BREVARD		5/27/20	10 9:00
SHARPES BLVD				Phone		@ Exit	Date/Time
SHARPES, FL				321/639-0370		5/27/20	10 10:00
Nume(s) of Field Representatives(s)		Title				Chone	· · · · · · · · · · · · · · · · · · ·
THAD TERRY		PRESIDENT				321/63	1-8440
JERRY PADRICK		OPERATOR				321/30	8-47)4
Name and Address of Permittee or Desig	nated Represent	stive	Title	Phone		@ Op	erator Certification #
SUN LAKE ESTATES HOME OWNERS	ASSOCIATION		OWNER			216/871	-6445
P.O. BOX 430							
SHARPES, FL 32959							
	Secondar Train			ID#:	•.	Samales	Sulit (V/N):
Inspection Type: C E I	Sanabas vitte	cand a state	in the second se				
Domestic Indu		Were Photos Take	(V/N): N	֎ Log book Volume EAS ÉVALUAT)	ÉD		@ Page
Impection Type:       C       E       1         Image: Complexity of the second	A CILITY of Compliance Criteria Shoo	Were Photos Take COMPLIA c; SC = Significan d: be Reviewed w	-(Y/N): N A.NCE A.R. Intout of Compli- itien Gut of Com	EAS EVALUAT) ance; NA = Not Applicate pliance Ratings Art Give	É D Ile, . ] 10 ia	NE or B Ascas b	Page
Impection Type:     C     E     1       Image: C     Domestic     Indu       Image: C     Image: C     Image: C	ACILITY of Compliance Containe Show	Were Photos Take COMPLIA S; SC = Significan do be Reviewed w JUSY 1007XG	=(Y/N): N ANCE ARI Intout of Compli- ition Out of Complexity INCL 6 - 6	EAS EVALUAT) ance; NA = Not Applicab pliance Ratings Art Give attra OPERATIONS	: É D Die; .]	NE or B Ascas b FL FR	Page
Impection Type:     C     E     1       Image: Complete the second se	A C I L I T V of Complianc Criteria Shou PRIMA IC 3. Lab IC 4. Sam	Were Photos Take COMPLIA SCSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	=(V/N): N A NCE AR i nt out of Compli- then Gut of Com NC 6, F	Log book Volume     E A S E V AL UAT)     ance; NA = Not Applicab     pliance Ratings Arc Give     Tri dy Site Review     jow Measurement	E D le; 1 lC	VE or B Arcas h Fi fin 9. • Ei	Page  Intk = Not Evaluated  Arked by a **  INE Display  Flucnt Quality  Flucnt Plucnt Quality  Flucnt Plucnt PlucntP
Impection Type:       C       E       1         Image: Complete the second seco	A CILITY of Compliance Criteria Shou Filtras IC 3. Lab IC 4. Sam	Were Photos Take COMPLIA SC SG Significan do be Reviewed w functionary contory appling wrds & Reports	NC 5 AR NC 5 AR NC 6, F	Log book Volume     E A S E V AL UAT  ance; NA = Not Applicab pliance Ratings Art Give It V Al Ste Review acility Site Review low Mensurement becration & Maintenance		VE or B Arras M First 9. +Ei 10.+Ei 11. B	Page      Inuk = Not Evaluated      Inu
Impection Type:       C       E       1         Image: C       E       1       1         Image: C       E       Image: C       E       1         Image: C       E       E       E       E	ACTLATA of Compliance Contrast Show Stars IC 3 Lab IC 4 Sam IC 5.0 Rep	Were Photos Take COMPLIA COMPLIA COMPLIA COMPLIA COMPLANCE COMPANY CONTRACTOR CONTRACTON	=(V/N): N A.N.C.B. A.R.i nt out of Compli- tion Gut of Comple- inten Gut of Com I. V.C. NC 6, F IC 7, F IC 8.+C	Log book Volume     E A S É V A L U A T     ance; NA = Not Applicab     pliance Ratings Are Give     art of Overa Hox.     Socility Site Review     low Measurement     peration & Maintenance	le; 1 IC IC NC	VE or B Arcas b 10.4E 11. Re 12. G	Page      Arked by a
Imprection Type:       C       E       1         Imprection Type:       Imprection Type:       Imprection Type:       Imprection Type:         Imprectin Type:       Impr	A C I L I T Y of Complianc Criteria Shou Printing IC 3. Lab IC 4. Sam IC 5. • Rep	Were Photos Take COMPLIA SIG Significan do be Reviewed with the Reviewed with the Derive Significan do be Reviewed with the Significant do be Reviewed with the	NC & AR int out of Compli- int out of Compli- inten Gut of Com NC 6, F IC 7, F IC 8, eC	Log book Volume     E A S E V AL UAT) ance; NA = Not Applicab pliance Ratings Art Give try divert Review acility Site Review low Measurement operation & Maintenance	E D le; 1 lC lC NC	VE or B Arcas N FILL 9. • E 10. • E 11. R 12. G	Page      Automatical      Automati
Impection Type:       C       E       1         Image: C       E       1       Image: C       E       1         Image: C       Ima	A C   D   T Y of Compliance Criteria Show S(1) S IC 3. Lab IC 4. Sam IC 5. • Rep C	Were Photos Take	=(V/N): N A NCE AR int out of Compli- iten Out of Compli- iten Out of Com IC 7. F IC 8.+C	Log book Volume     E A S É V A L U A T     ance; NA = Not Applicab     pliance Ratings Are Give     tr Avera Hox     ocility Site Review     low Measurement     peration & Maintenance	ED Ile; I IC IC IC NC	VE or B Arcas b First 9. • E 10. • E 11. Ra 12. G Complian	Page      Int = Not Evaluated      Aarked by a ***      Int Dispose      Fluent Dispose      siduals/Studge      roundwater      to
Imprection Type:       C       E       1         Imprection Type:       C       E       1         Imprection Type:       C       E       1         Imprection Type:       Imprection Type:       Imprection Type:       Imprection Type:         IC       Imprection Type:       Imprection Type:       Imprection Type:       Imprection Type:         IC       Imprection Type:       Imprection Type:       Imprection Type:       Imprection Type:         IC       Imprection Type:       Imprection Type:       Imprection Type:       Imprection Type:         IC       Imprection Type:       Imprection Type:       Imprection Type:       Imprection Type:         IC       Imprection Type:       Imprection Type:       Imprection Type:       Imprection Type:         IC       Imprection Type:       Imprection Type:       Imprection Type:       Imprection Type:         IC       Imprection Type:       Imprection Type:       Imprection Type:       Imprection Type:         IC       Imprection Type:       Imprection Type:       Imprection Type:       Imprection Type:         IC       Imprection Type:       Imprection Type:       Imprection Type:       Imprection Type:         IC       Imprection Type:       Imprection Type:	A C I L I T T or Compliance Criteria Show SI II O IC 3. Lab IC 4. Sam IC 5. + Res	Were Photos Take	(V/N): N A NCE A R i nt.out.of Compli- iten Qui of Com NC 6, F IC 7, F IC 8.+C	Log book Volume E A S E V AL UAT innee; NA = Not Applicab pliance Ratings Arc Give introductor Review iow Measurement peration & Maintenance Significant-Co	ED Ile; T IC IC IC NC	VE or B Arras N P   11 9. •Ei 10. •Ei 11. Ra 12. G Complian	Page  Intk = Not Evaluated  Antked by a
Impection Type:       C       E       1         Image: C       E       1       1         Image: C       Image: C       Image: C       Image: C         Image: C       Image: C	A C I L I T Y of Complianc Criteria Shou Printing IC 3. Lab IC 4. Sam IC 5. • Rep	Were Photos Take C O M P L I / c; SC = Significan d: be Reviewed with the prink of the prink of the prink sonatory appling words & Reports	NC & A R i nt out of Compli- itien Gut of Com NC 6, F IC 7, F IC 8, ¢C	Log book Volume     E A S E V AL UAT) ance; NA = Not Applicab pliance Ratings Art Give It V Al Significant poration & Maintenance     Significant-O District Office/Phone N	E D lle;: ] IC IC IC IC	VE or B Arcas b First 9. •Ei 10. •Ei 11. Re 12. G 12. G Complian	Page      fauk = Not Evaluated      fauked by a **      INI DISPOSA      Huent Quality      fluent Disposal      coundwater      co      Date
Impection Type:       C       E       1         Image: C       E       1       1         Image: C       E       1       1         Image: C       Image: C       E       1         Image: C       Image: C       Image: C       Image: C         IC       Image: C       E       Image: C       E         IC       1.4 Permit       IC       2.4 Compliance Schedules         I3       Other:       Image: C       E         I3. Other:       Image: C       E       E         I3. Other:       Image: C       E       E         I3. Other:       Image: C       E       E         I3. Other:       E       E       E         I3. Other:       E       E       E         I3. Other:       E       E       E         IA: Other:       E       E       E         IMME(a) and Signature(s) of Imagester(s)       E       E         IOM POWERS       E       E       E	A C   L I T Y of Compliance Criteria Show S   L I T Y Criteria Show S   L I T Y Criteria Show S   L I T Y C I L I T Y S   L I T Y   L I T Y S   L I T Y S   L I T Y S   L I T Y S   L I T Y   L I T Y S   L I T Y	Were Photos Take	(V/N): N A NCE A R i nt.out.of Compli- iten Gut.of Compli- iten Gut.of Com NC 6, F IC 7, F IC 8.+C	Log book Volume     E A S E V A L U A T )     ance; NA = Not Applicab     pliance Ratings Arc Give     TrA UPSIX PLONS     acility Site Review     low Measurement     peration & Maintenance	E D le; 1 lc lC lC lC NC	VE or B Arras N P   Lt 9. •E 10. •E 11. Ra 12. G Complian 3	Page  Intk = Not Evaluated  Antked by a **  INLOSEON()  Fluent Quality  Fluent Disposal  siduals/Sludge  roundwater  Date June 30.2010
Impection Type:       C       E       1         Image: C       E       1       1         Image: C       E       Image: C       E       1         Image: C       E       E       E       E         Image: C       E       E       E       E </td <td>A C I D I T Y of Compliance Criteria Show SI I S IC 3. Lab IC 4. Sam IC 5. • Rep C S • Rep</td> <td>Were Photos Take</td> <td>ANCE AR nt out of Compli- ne out of Compli- NC 6, F IC 7, F IC 8.+C</td> <td></td> <td>E D le;:] IC IC IC IC NC</td> <td>VE or B Arras b Firth 9. • Ef 10. • Ef 11. Ru 12. G Complian 3</td> <td>Page     Image     Im</td>	A C I D I T Y of Compliance Criteria Show SI I S IC 3. Lab IC 4. Sam IC 5. • Rep C S • Rep	Were Photos Take	ANCE AR nt out of Compli- ne out of Compli- NC 6, F IC 7, F IC 8.+C		E D le;:] IC IC IC IC NC	VE or B Arras b Firth 9. • Ef 10. • Ef 11. Ru 12. G Complian 3	Page     Image     Im

Revised: March 27, 2009
# INSPECTION COMMENTS

An existing 0.135 MGD annual average daily flow (AADF) design capacity extended aeration wastewater treatment facility consisting of influent screening, flow equalization, aeration, clarification, chlorination, filtration, and aerobic digestion.

PERMIT: In compliance. FLA010353 issued 10/6/05 expires 10/1/2010.

RECORDS AND REPORTS: In compliance.

Bound logbook on-site. C-operator on site 1/2 an hour a day for 5 days a week and one weekend visit. Copy of permit onsite. Discharge Monitoring Reports (DMRs), lab results and chains of custody are to be stored on site for Department review. DMRs have correct information submitted. Operations to correct DMRs reporting regarding percent capacity and qualifiers. Corrections to be resubmitted to the Department.

LABORATORY: In compliance. PACE Laboratory. Department of Health certified.

SAMPLING: In compliance.

Grab samples are being taken for the influent and effluent. An 8-hour composite sample of influent and effluent is being performed for nitrates, Carbonaceous Biochemical Oxygen Demand (CBOD<sub>5</sub>) and Total Suspended Solids (TSS).

FACILITY SITE REVIEW: In compliance.

Access: Locked gate with fence.

Signs posted.

Aeration: Bar screen. Marloff system with surge control. Two blowers, alternate.

Brown foam noted. Slight earthy odor. Aerobic digester,

Clarifier: Continuing to repair slight leakage noted on the east wall of the digester. Chlorine added to weirs for algae control.

CCC: Hypochlorination. Operations continue to seal slight leakage on outer walls of the CCC. Well water utilized for cleanup.

FLOW MEASUREMENT: In compliance.

Stevens flow meter with chart recorder. Chart recorder not being utilized due to low flows. Documentation of calibration for the flow meter was performed on 5/4/2010.

**OPERATION AND MAINTENANCE:** Facility maintained.

EFFLUENT: Clear. Minor. Review of the DMRs from by Orlando staff indicate from 1/09 to 3/10 the facility was in compliance.

TRC was 2.7 mg/L.

EFFLUENT DISPOSAL: In compliance.

0.206 MGD AAD rapid rate restricted access percolation ponds. (R-001). Consists of (4) dual cell percolation ponds. Saturation in ponds is excellent. 5 feet freeboard noted.

#### GROUND WATER: Out of compliance.

A review of the ground water files for this facility indicates the following deficiencies:

The Department has not received the groundwater monitoring reports for the fourth quarter of 2009 and first quarter of 2010. These reports were due by the end of October 2009 and the end of April 2010 respectively. Submit these reports as soon as possible.

Fecal coliform results were reported above the primary standard of 4 fecal coliform colonies per 100 milliliters (fcc/100mL) in the groundwater samples from all wells for the third quarter of 2009 at 10 fcc/100mL. Determine the cause of these concentrations and report this to the Department. If the groundwater samples were analyzed using

less than 25 mL of sample, report what changes the laboratory will make to meet the primary groundwater standard requirement.

RESIDUALS MANAGEMENT: In compliance. Solids disposed of by American Bio-clean.

OTHER:

•

File-Review Checklist:

# **DMR FILE**

- 1. DMR review for the period: January 2009 to March 2010
- 2. DMR missing for: None
- 3. Appropriate DMR form submitted: Yes Yes
- 4. Original DMR's submitted:
- 5. Signed by an authorized person: Yes
- 6. DMRs received prior to 28th of month: Yes
- \*Except January, February, May, and December 2009 and January 2010\* 7. Correction fluid used:
  - No
- 8. Part B completed for the operator information: Yes

#### Permit limits exceeded Part A and/or Part B: No

#### Results of analysis and measurements reported as often as required: Yes

Reported:

- 1. Units Yes
- 2. Frequency of Analysis Yes
- 3. Number of Exceedances Yes
- 4. Sample Type Yes

Notes: All Reporting Violations, not exceedances (Issues with filling out DMR)

- 1. Reporting percent capacity in the correct column of DMR with correct units (all months)
- 2. Reporting with qualifiers (September 2009 through March 2010)
- 3. Issues reporting same values between part A and B for some parameters

Jan-09	Reporting Violations	R-001	FC	(90%) reported as 100.
			% Capacity	Flow results reported in % cap and percent capacity reported in units column.
Feb-09	Reporting Violations	R-001	FC	Max not reported. Second fecal sample not taken. Reported as "?" DMR note states due to unknown lab error.
			% Capacity	Flow results reported in % cap and percent capacity reported in units column.
Mar-09	Reporting Violations	<u>R-001</u>	FĊ	max and (90%) not reported.
_			% Capacity	Flow results reported in % cap and percent capacity reported in units column.
Apr-09	Reporting Violations	R-001	TSS max	12.5 (A); 15 (B). 12.5 is mo avg.
······································				Flow results reported in % cap and percent capacity
			% Capacity	reported in units column.
May-09	Reporting Violations	<b>R-00</b> 1	% Capacity	Flow results reported in % cap and percent capacity reported in units column.



# Florida Department of Environmental Protection

Central District 3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803-3767 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

OCD-C-WW-09-0217

SENT VIA E-MAIL TO: matlantisinvest@cfl.rr.com

March 20, 2009

SUN LAKE ESTATES HOMEOWNERS ASSOCIATION 4865 LAKE ONTARIO DRIVE COCOA FLORIDA 32926

ATTENTION THAD TERRY OWNER

> Brevard County - DW Sun Lake Estates WWTF Wastewater Facility - Permit No. FLA010353 Noncompliance Letter

Dear Mr. Terry:

On February 17, 2009, Department personnel conducted a routine inspection of your wastewater facility. A copy of the inspection report is enclosed for your review. During the course of the inspection, and/or determined from records on file in this office, the following deficiencies were noted:

- 1. Slight leakage was noted on the east wall of the digester.
- 2. Remove the broken down vacant trailer from area of the wastewater treatment plant.
- 3. A review of the ground water files for this facility indicates the following deficiencies:
  - a. The Department has not received the ground water monitoring reports for the second and third quarters of 2008. Submit these reports as soon as possible.
  - b. Depth to water measurements were reported instead of ground water elevations for all well locations for the fourth quarter of 2007 and first quarter of 2008. In table format please provide the ground water elevations for all well locations for these quarters.
  - c. For the third quarter of 2007 total dissolved solids (TDS) results were reported to be less than the chloride results. This appears to be a recording error or a laboratory error since TDS results should not be less than chloride results. Verify to the Department if these results were reported incorrectly or if this was laboratory error. If the results were reported incorrectly, provide the correct results.

"More Protection, Less Process" www.dep.state.fl.us RESIDUALS MANAGEMENT: In compliance. Solids disposed of by American Bio-clean.

,

ŧ

OTHER:

٠

÷

#### **INSPECTION COMMENTS**

An existing 0.135 MGD annual average daily flow (AADF) design capacity extended aeration wastewater treatment facility consisting of influent screening, flow equalization, aeration, clarification, chlorination, filtration, and aerobic digestion.

PERMIT: In compliance. FLA010353 issued 10/6/05 expires 10/1/2010.

**RECORDS AND REPORTS:** In compliance.

Bound logbook on site. C-operator on site 1/2 an hour a day for 5 days a week and one weekend visit. Copy of permit on site. DMRs lab results and chains of custody are to be stored on site for Department review.

LABORATORY: In compliance. PACE Laboratory. Department of Health certified.

SAMPLING: In compliance.

Grab samples are being taken for the influent and effluent. An 8-hour composite sample of influent and effluent is being performed for nitrates, Carbonaceous Biochemical Oxygen Demand (CBOD<sub>5</sub>) and Total Suspended Solids (TSS).

FACILITY SITE REVIEW: Out of compliance.

Access: Locked gate with fence.

Signs posted.

Aeration: Bar screen. Marloff system with surge control. Two blowers, alternate.

Brown foam noted. Slight earthy odor. Aerobic digester.

Clarifier: Slight leakage was noted on the east wall of the digester. Chlorine added to weirs for algae control. CCC: Hypochlorination. Reduced Pressure Zone Preventer (RPZ) calibrated and documented on 3/11/09. CCC tank is under repair for slight leakage. Operations continue to seal slight leakage on outer walls of the CCC. Remove the broken down vacant trailer from area of the wastewater treatment plant.

FLOW MEASUREMENT: In compliance.

Stevens flow meter with chart recorder.

Documentation of calibration for the flow meter was performed on 12/08.

OPERATION AND MAINTENANCE: Facility maintained.

EFFLUENT: Clear. Minor. Review of the DMRs, by Orlando staff, from 1/08 to 11/08 indicates the facility was in compliance.

TRC was 0.60 mg/L.

EFFLUENT DISPOSAL: In compliance.

0.206 MGD AAD rapid rate restricted access percolation ponds. (R-001). Consists of (4) dual cell percolation ponds. Saturation in ponds is excellent. 4 feet freeboard noted.

### GROUND WATER: Out of compliance.

A review of the ground water files for this facility indicates the following deficiencies:

The Department has not received the ground water monitoring reports for the second and third quarters of 2008. Submit these reports as soon as possible.

Depth to water measurements were reported instead of ground water elevations for all well locations for the fourth quarter of 2007 and first quarter of 2008. In table format please provide the ground water elevations for all well locations for these quarters.

For the third quarter of 2007 total dissolved solids (TDS) results were reported to be less than the chloride results. This appears to be a recording error or a laboratory error since TDS results should not be less than chloride results. Verify to the Department if these results were reported incorrectly or if this was laboratory error. If the results were reported incorrectly provide the correct results.

٠

# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

# WASTEWATER COMPLIANCE INSPECTION REPORT

***************************************	FΑ	CILITY	AND	INSPECTION INFORMATION
---	----	--------	-----	------------------------

				@	= Optional		
Name and Physical Location of Facility	WAFR ID:		County	Entry	Date/Time		
SUN LAKE ESTATES WWTF	FLA010353		BREVARD	2/17/0	9 1:00		
SHARPES BLVD			Phone	@ Ex	it Date/Time		
SHARPES, FL			321/639-0370	2/17/0	9 2:00		
Name(s) of Field Representatives(s)	Title			Pbon	e		
THAD TERRY	PRESIDENT			321/6	31-8440		
JERRY PADRICK	OPERATOR			321/5	08-4714		
Name and Address of Permittee or Designated Re	epresentative Title		Phone	@ 0	perator Certification #		
SUN LAKE ESTATES HOME OWNERS ASSOCI	ATION OWNE	R		216/87	1-6445		
P.O. BOX 430 .							
SHARPES, FL 32959							
Inspection Type C E I Sample	s Taken(Y/N): N	@ Sample 1D#		Sample	s Split (Y/N): N		
	Ware Photos Takos (V/N):	N	(a) Log book Volume				
🖄 Domestic 📋 Industrial			(a) Log book volume	•	(@: rage		
FACI	TTV COMPLEX NC			ΓŇ			
IC = In Compliance NC = Opt of Com			J L YALUAI	6 <i>1</i> 1			
Significant Non-Compliance Criteri	a Should be Reviewed when Ou	t of Compliance:	, INA – INOL Applicad ice Ratings Are Give	n in Areas	Blank = Not Evaluated Marked by a $4^{\circ}$		
PERMITS/ORDERS	SELF MONITORING	FACILITY	OPERATIONS		MENDOISPOSAL -		
	ROGRAM	VC 6 Engility	Cita Davian				
IC 2 Compliance Schedules	4 Sampling	C 7 Flow N	Aeasurement		Effluent Quanty		
	5 • Records & Reports	C 8 • Operat	ion & Maintenance		Residuals/Sludge		
13. Other:			ion de intaintenance	NC 12 (	Groundwater		
	······································	······································					
Facility and/or Order Compliance Status:	n-Compliance Out-Of-	Compliance	Significant-O	ut-Of-Complia	ance		
Recommended Actions: NONCOMPLIANCE LE	TTER						
Name(s) and Signature(s) of Inspector(s)			District Office/Phone N	lumber	Date		
TOMPONIERS T. FO			Central (407)893	-3313	March 15, 2009		
IOM POWERS <				-3515	Water 15, 2005		
			an an an Arbana an Arbana. An Arbana an Arbana an Arbana an Arbana.				
(2) Signature of Reviewer CLARENCE ANDERSON			District Office/Phone N	umber	Date		
Elarence Underson	)		Central (407)893	-3313	3/19/09		
Fill Out This Section For A	Il Surface Water Discha	raar Inen	actions (CEL C	AL CRI	PAT VST DI		
Transaction Code	BDES Number			an the second	1 (11) (1414 ( <b>1</b> 11)		
		1 1 1	JUA Insp       I	i ype	inspector Fac Type		
ADDITIONAL NEDES COMMENTS							
Inspection Type (Field 1) A=PAI, B=CBI, C=CEI, S=CSI, X=XSI, R=RI							
Inspection Code (Field 2): S=State, J=Jo	int EPA/State-EPA Lead, T=Join	nt State/EPA-	State Lead, L=Local	Program			
Facility Type (Field 3): 1=Municipal (Pu	blicly Owned), 2=Industrial and	Privately Ov	med Domestic, 3= A	gricultural,	, 4=Federal		
Every other field is self explanatory							

Sun Lake Estates WWTF OCD-C-WW-09-0217 Page 2 of 2

Please respond to these items, in writing, with a schedule of corrective action. Pursuant to Rule 62-4.100(2), F.A.C., failure to comply with pollution control rules shall be grounds for permit suspension or revocation and initiation of formal enforcement action. Your reply is requested within 14 days from the date of this letter. Ground water questions should be addressed to Marsha Johnson at (407) 893-3308, Ext.2275. Any other questions should be addressed to Tom Powers at (407) 893-3313.

Sincerely,

Elarence anderson

Clarence Anderson Environmental Supervisor Wastewater Compliance/Enforcement

CA/tp/ar

Enclosure: Inspection Report

cc: Anil Desai, FDEP Ground Water Section, <u>anil.desai@dep.state.fl.us</u> Dennise Judy, FDEP Domestic Waste Permitting Section, <u>dennise.judy@dep.state.fl.us</u>

TO:	Florida Department of Environmental Protection
CO:	Clarence Anderson
FROM:	Jerry Padrick
RE:	Sunlake Estates (OCD-C WW-09-0217)
DATE:	April 13, 2009

Mr. Anderson,

This letter is in response to an inspection by compliance officer Tom Powers on 02/17/2009.

The following items have been addressed:

1. Slight leakage was noted in East wall of digester. It was repaired on 04/10/2009.

2. The broken down trailer was removed as of 04/08/2009.

3.

A. Both of the ground water report have been completed and submitted as of 04/13/2009.

B. After talking to Marsha Johnson, I will write a summary table to her to attach to those reports about the ground water elevations on 04/13/2009.

C. After contacting Flowers Lab, they have noted an error by their department and will be sending a letter of explanation ASAP on 04/13/2009.

In summary, thank you for the extra time that you and Mr. Powers allowed me in addressing these issues.

Should you have any further questions please call me at 321-508-4714.

Thank you,

Jerry Padrick

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: MAILING ADDRESS:	Sun Lakes Homeowners 5600 US Hwy 1 N	Association	PERMIT NU	MBER:	FLA010353-003-DW2P	Exp	fration Date:	October 27, 2015	
	Sharpe, Florida 32927		LIMIT:		Final	ORT FREQUENCY:	Monthly		
FACILITY:	Sun Lakes Estates WWT	F	CLASS SIZE MONITORIE	S GROUP NUMBER	N/A PROGRAM: Domestic B_001				
LOCATION:	616 Emerald Lake Drive Cocoa, FL 32926-4648		MONITORIN RE-SUBMIT	NG GROUP DESCRIPTION:	Rapid Infiltration Basin (RIB), including Influent				
COUNTY: OFFICE:	Brevard Contral District			RGE FROM SITE: 🗍 NG PERIOD From:	04-01-11				
Parameter		Quantity or Loading	Units	Quality or Conc	entration	Units	No. Frequency of Ex Analysis	Sample Type	
Flow(To RIBs)	Sample Measurement	.030	MO				& Continues	FlowTotator	
	1					the second s			

	Measurement		.030	1 yo			•	1	19	Continuas	How otel
PARM Code 50050 Y	Permit		0.135	MGD		T		1	a	Continuous	Flow Totalizer
Mon. Site No. FLW-1	Requirement		(An Avg.)				1		19		
Flow(Total Through Plant)	Sample		-	M. N		T		1	1-	A 1.	CITIT
	Measurement		.030	190					0	1 Ontinunus	VIDU/ORIA
PARM Code 50050 1	Permit		0.135	MOD						Continuous	Flow Totelizer
Mon. Site No. FLW-1	Requirement		(An Avg.)			<u> </u>			0		
Flow(To RIBs)	Sample			4 2			*		1/	11 11	TI XIT
	Measurement		,029	841				1	0	LONTINKOUS	Flow Isteliza
PARM Code 50050 Q	Permit		Report	MGD				+	10	Continuous	Flow Totalizer
Mon. Site No. FLW-1	Requirement		(Mo.Avg.)	1 1					14		
BOD, Carbonaceous 5 day, 20C	Sample							1	+	10. 11.	11 53
	Measurement					4.86		Val	9	DI-monthly	8-hr FPC
PARM Code 80082 Y	Permit			11		20.0		mg/L		Bi-monthly	8.hr FPC
Mon. Site No. EFA-1	Requirement					(An Avg.)			1	every 2 months	
BOD, Carbonaceous 5 day, 20C	Sample						·	10.1	17	12	11 500
	Measurement				10.L	7025.0	10.0	VIGC	9	Di-monthly	SUTTE
PARM Code 80082 A	Permit				60.0	45.0	30.0	THE/L	1	Bi-monthly	8-hr FPC
Mon. Site No. EFA-1	Requirement				(Max.)	(Wk.Avg.)	(Mo.Avg.)		ļ¢	every 2 months	
Solids, Total Suspended	Sample	T						127	17	12. 11	110
	Measurement					1.00		190	9	DI-monthly	8-WIC
PARM Code 00530 Y	Permit			T		20.0		mg/L	17	Bi-monthly	8-hr FPC
Mon. Site No. EFA-1	Requirement			1		(An.Avg.)		1	Ø	every 2 months	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT SIGNA

OV

2lVat

-06-

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

TELEPHONE NO

321-139-1273

DATE (mm/dd/yyyy)

R-001

FACILITY: Sun Lakes Estates WWIF

.

MONTTORING GROUP NUMBER: NUMBER: MONITORING PERIOD From: 04-01-11 To: 04-30-11

PERMIT NUMBER: FLA010353-003-DW2P

						-					
Parameter		Quantity	or Loading	Units		Quality or Concentration	ion	Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample		1		180	1.50	45	Mar C	Ø	Birmull	Shi FR
BARM Code 00520 A	MOISLEDIROLK		+		(0.0	4.65	10.0	- <u>y</u>	-5-	Di monthini	e la FOC
A Site No FEA 1	Permit				00.0	45,0	30.0	inter a	9	Di-titothouyy	о-щ гго
Coliforn Facel	Reducement				(IVIEX.)	(WK.AVg.)	(NO.AVY.)		1-7		
COMORAL, FOCAL	Measurement					1.0		Toom.	9	Si-monthly	Grab
PARM Code 74055 Y	Permit					200	<u> </u>	#/100mL	17	Bi-monthly	Grab
Mon. Site No. EFA-1	Requirement					(An Avg.)		1	9	every 2 months	
Coliform, Fecal	Sample		1		<u></u>		. /	Eine	1	12 - 111	Cub
	Measurement					1.5	1.5	T/W/L	<u>الا</u>	ci-prostaly	1010
PARM Code 74055 A	Permit					Report	800	#/100mL	N	Bi-monthly;	Grab
Mon. Site No. EFA-1	Requirement		1			(Mo.Geo.Mn.)	(Max.)		12	every 2 months	
pH	Sample				7,		73	54	ø	5Develut	Grab
PARM Code 00400 A	Demail				(.6				1/2	STANDY-L	Grah
Mon Site No FFA-1	Pagainement				0.0 (Marina )		0.5 (Merr.)	0.14.	9	J Days Hock	0140
Chlorine Total Residuel/For	Semple		<b></b>		(IVIAIL)			+	<del>l'</del> >		<i>a 1</i>
Diginfection)	Measurement			1 1	1.0			Mal	O'	SLAYS/Wet	Grab
PARM Code 50060 A	Permit	·····	<u> </u>		05	· · · · · · · · · · · · · · · · · ·		Ang/L	17	S Dave/Week	Grab
Mon. Site No. EFA-1	Requirement				(Min.)				19	,	
Nitrogen, Nitrate, Total (as N)	Sample						0,435	14.1	đ	Bi-monthly	Phy FR
PARM Code 00620 A	Demit	·····				+	120	- H.C.	+477	Rimonhh	8 br FDC
Mon. Site No. EFA-1	Requirement						(Max.)		9	every 2 months	omno
Nitrogen, Total	Sample		T						77	0 111	JI FD.
	Measurement		ł	1 1			26.05	Varc	14	Dimenthly	8-WIR
PARM Code 00600 A	Permit						Report	.ng/L	1	Bi-monthly,	8-hr FPC
Mon. Site No. EFA-1	Requirement						(Max.)		9	every 2 months	
Phosphorus, Total (as P)	Sample Measurement						4.5	hel	ø	G-monthly	ShuFPC
PARM Code 00665 A	Permit					1	Report	alle/L		Bi-monthly	8-hr FPC
Mon. Site No. EFA-1	Requirement		1				(Max.)		9	every 2 months	
Flow(Total Through Plant)	Sample	.024	. 020	Mad					1	Continuos	Flaw Totaliza
PARM Code 50050 R	Permit	Report	Report	MGD		+		1		Continuous	Flow Totalizer
Mon. Site No. FLW-1	Requirement	(Mo.Avg.)	(OLAVE.)						Ø		
Percent Capacity, (TMADF/	Sample					1		1.07	1	NA ILI	11.11
Permitted Capacity) x 100	Measurement						.020	14.8 12	Ø	Velentaly.	(alculato
PARM Code 00180 P	Permit	·····		1			Report	percent	17	Monthly	Calculated
Mon. Site No. CAL-1	Requirement			1			(Mn Ave)		d		

FACILITY:

.

.

Sun Lakes Estates WWTF

R-001 MONITORING GROUP

PERMIT NUMBER: FLA010353-003-DW2P

NUMBER: NUMBER: MONITORING PERIOD From: <u>D4-01-11</u> To: <u>D4-30-11</u>

Parameter		Quantity	or Loading	Units	C	Juality or Concentrat	ion	Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C(Influent)	Sample Measurement						325	Page	P	Bi month	8hr FPC
PARM Code 80082 Q Mon. Site No. INF-1	Permit Requirement	[		T			Report (Max.)	mg/L	ø	Bi-monthly; overy 2 months	8-hr FPC
Solids, Total Suspended(Influent)	Sample Measurement						546	My	Ø	G-monthly	Shr.FRC
PARM Code 00530 Q Mon. Site No. INF-1	Permit Requirement	[		T	[		Report (Max.)	mg/L	9	Bi-monthly; every 2 months	8-hr FPC
		<b> </b>					Ī	1	Γ		
								<u> </u>			

DAILY	SAMPLE	RE	SULT	<b>[S - PAR</b> ]	ТВ
	A 1 /	٣.,	11	Facility:	Sun Lakes Estates WWIF

Permit N Monitor	lumber: ing Period	FLA010353- From:	003-DW2P	// To:	04-3	0-11	Facility: 5	ium Lakes Estat	ies WWIF		
F	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/l.	Solids, Total Suspended mg/L	pH s.u.	Flow (To RIBs) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solida, Total Suspended (Influent) mg/L.
Code	80082	50060	74055	00620	00600	00665	00530 EFA-1	00400 FFA-1	50050 FLW-1	80082 INF-1	00530 INF-1
Aon. Sitte	EFA-I	EFA-1	ErA-1	1-0-12		Larvi	DUTET	7.2	.029		
2		1.5		1 1				7.2	.035		
3		<u> </u>		1							
4		1.5						7.2	.0.23		
5		1.6					1	7.2	.044		
6		1.3						7,2	1015		
7	<u></u>	1.5						72	,024		
8		1.5						7,2	.018		
9		1.5						7.2	,019		
10			[								
11		1.5						7.2	.022		
12		1,5	[					7,2	.021		
13		1.5						フィン	.065		
14		1.5						7.2	,028		
15		1.0						7.2	.016		
16		1.0						7.2	1035	1	
17											
18	9.8	1.0	2.0	0.67	20.3	4.0	12.0	7.2	:013	224	604
19		2.1						7.2	1023		
20		2,0						7,2	1021	<u> </u>	
21		1.5						72	10.21		
22		1.6						72	1021		
23		1.5						7,2	,020		
24											
25		1.0						7.3	,018		
26		2.0						7.3	1018		Ļ
27		2.3						7.3	1019		L
28	10.2	2.0	1.0	0.20	31.8	5.0	13.0	7.2	1013	425	488
29		2.0						7.3	1013		
30		1.8	1		ļ	4		7.3	1021		
31	L		<u> </u>							1 1 110	1 1.0
Total	70		50	0.81	52-1	9.0	25.0		1.625	649	1042
Mo. Avg.	10		1 1.9	0.435	2605	14.5	125		1.024	1 325	1346

Night Shift Operator Lead Operator

**Evening Shift Operator** 

Certificate No:	
Certificate No:	
Certificate No:	_70

<u></u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Jerry	Padrick

Class:

Ciass:

Class:

Name:

Name:

Name:



•

### **ANALYTICAL RESULTS**

# Project: Sunlake Estates

Pace Project No.: 3529349

Sample: Effluent	Lab ID:	3529349001	Collected:	04/18/11	11:15	Received: 04/	18/11 15:20 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytica	i Method: SM 9	222D Prepar	ation Meth	iod: SM	9222D			
Fecal Coliforms	2.00 (	CFU/100 mL	2.0	2.0	2	04/18/11 17:27	04/19/11 18:01		
2540D Total Suspended Solids	Analytica	Method: SM 2	540D						
Total Suspended Solids	1 <b>2.</b> 0 i	mg/L	5.0	5.0	1		04/22/11 08:28		
5210B cBOD, 5 day	Analytica	I Method: SM 5	210B Prepar	ation Meth	iod: SM	5210B			
Carbonaceous BOD, 5 day	9.8 1	mg/L	2.0	2.0	1	04/20/11 07:27	04/25/11 17:07		
Total Nitrogen Calculation	Analytica	I Method: TKN-	+NOx Calcula	tion					
Total Nitrogen	20.3	mg/L	0.50	0.25	1		04/26/11 14:54		
300.0 IC Anions	Analytica	I Method: EPA	300.0						
Nitrate as N	0.67	mg/L	0.10	0.050	2		04/19/11 14:54	14797-55-8	
351.2 Total Kjeldahl Nitrogen	Analytica	I Method: EPA	351.2 Prepar	ation Meth	nod: EP	A 351.2			
Nitrogen, Kjeldahl, Total	20.1	mg/L	0.50	0.25	1	04/20/11 10:15	04/21/11 11:50	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Anatytica	I Method: EPA	353.2						
Nitrogen, NO2 plus NO3	0.17	mg/L	0.050	0.025	1		04/26/11 13:25		
365.4 Phosphorus, Total	Analytica	I Method: EPA	365.4 Prepar	ation Meth	nod: EP	A 365.4			
Phosphorus, Total (as P)	4.0	ma/L	0.10	0.050	1	04/20/11 10:15	04/21/11 11:50	7723-14-0	

Date: 04/27/2011 11:17 AM

#### **REPORT OF LABORATORY ANALYSIS**

Page 5 of 15





,

.

#### ANALYTICAL RESULTS

Project.	Surliake Estates									
Pace Project No.:	3529349									
Sample: Influent		Lab ID:	3529349002	Collected	04/18/11	11:15	Received: 04/	18/11 15:20 Ma	atrix: Water	
Parame	eters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspe	ended Solids	Analytical	Method: SM 2	540D						
Total Suspended Se	olids	<b>604</b> n	ng/L	40.0	40.0	1		04/22/11 08:28		
5210B cBOD, 5 da	y	Analytical	Method: SM 5	210B Prepar	ation Meth	od: SM	5210B			
Carbonaceous BOI	D, 5 day	<b>224</b> r	ng/L	2.0	2.0	1	04/20/11 07:27	04/25/11 17:07		

Date: 04/27/2011 11:17 AM

#### **REPORT OF LABORATORY ANALYSIS**

Page 6 of 15





.

.

# ANALYTICAL RESULTS

Pace Project No.: 3529808

Sample: Effluent	Lab iD:	3529808001	Collected	04/28/11	13:30	Received: 04/	28/11 15:10 Ma	trix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytica	it Method: SM 9	222D Prepar	ation Meth	nod: SM	9222D			
Fecal Coliforms	1.00	CFU/100 mL	1.0	1.0	1	04/28/11 17:05	04/29/11 15:35		Y
2540D Total Suspended Solids	Analytica	I Method: SM 2	540D						
Total Suspended Solids	13.0	mg/L	5.0	5.0	1		04/29/11 08:00		
5210B cBOD, 5 day	Analytica	al Method: SM 5	i210B Prepar	ation Meth	nod: SM	I 5210B			
Carbonaceous BOD, 5 day	10.2	mg/L	2.0	2.0	1	04/29/11 07:18	05/04/11 16:37		1р
Total Nitrogen Calculation	Analytica	al Method: TKN	+NOx Calcula	tion					
Total Nitrogen	31.8	mg/L	0.50	0.25	1		05/06/11 07:34		
300.0 IC Anions	Analytica	ai Method: EPA	300.0						
Nitrate as N	0.20	mg/L	0.10	0.050	2		04/29/11 02:40	14797-55-8	
351.2 Total Kjeldahl Nitrogen	Analytica	al Method: EPA	351.2 Prepar	ration Meth	10d: EP	A 351.2			
Nitrogen, Kjeldahl, Total	31.8	mg/L	0.50	0.25	1	05/02/11 09:30	05/04/11 14:17	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytica	al Method: EPA	353.2						
Nitrogen, NO2 plus NO3	0.028	mg/L	0.050	0.025	1		05/03/11 12:53		
365.4 Phosphorus, Total	Analytica	al Method: EPA	365.4 Prepa	ration Met	hod: EP	A 365.4			
Phosphorus, Total (as P)	5.0	mg/L	0.10	0.050	1	05/02/11 09:30	05/04/11 14:17	7723-14-0	

Date: 05/06/2011 02:51 PM

#### **REPORT OF LABORATORY ANALYSIS**

Page 5 of 15





•

.

•

# ANALYTICAL RESULTS

Project:	Sun Lakes Estate	BS								
Pace Project No.:	3529808									
Sample: Influent		Lab ID:	3529808002	Collected:	04/28/11	13:30	Received: 04/	28/11 15:10 Ma	itrix: Water	
Parame	ters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspe	nded Solids	Analytical	Method: SM 2	540D						
Total Suspended So	Hids	<b>488</b> r	ng/L	40.0	40.0	1		04/29/11 08:00		
5210B cBOD, 5 day	1	Analytical	Method: SM 5	210B Prepar	ation Meth	od: SM	5210B			
Carbonaceous BOD	), 5 day	425 r	ng/L	2.0	2.0	1	04/29/11 07:18	05/04/11 16:37		

Date: 05/06/2011 02:51 PM

## **REPORT OF LABORATORY ANALYSIS**

Page 6 of 15



#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: MAILING ADDRESS:	Sun Lakes Homeowners Association 5600 US Hwy 1 N	PERMIT NUMBER:	FLA010353-003-DW2P	Expiration Date:	October 27, 2015
	Sharps, Florida 32927	LIMIT:	Final	REPORT FREQUENCY:	Monthly
FACILITY: LOCATION:	Sun Lakes Estates WWTF 616 Emerald Lake Drive Cocoa, FL 32926-4648	CLASS SIZE: MONITORING GROUP NUMBER: MONITORING GROUP DESCRIPTION: RE-SUBMITTED DMR:	N/A R-001 Rapid Infiltration Basin (RIB),	PROGRAM: including Influent	Domestic
COUNTY: OFFICE:	Brevard Central District	NO DISCHARGE FROM SITE:	65-01-11 To:	05-31-11	

Parameter		Quantity or Loading	Units		Quality or Concentrat	ion	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow(To RIBs)	Sample Measurement	1030	MgD					9	Continues	Flow Tatalia
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement	0.135 (An.Avg.)	MGD	,				6	Continuous	Flow Totalizer
Flow(Total Through Plant)	Sample Measurement	1030	MyD					Ø	Pontinuous	Man Totaliza
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement	0.135 (An.Avg.)	4MGD					9	Continuous	Flow Totalizer
Flow(To RIBs)	Sample Measurement	,029	My D	·····				9	Continuous	Mow Totalizar
PARM Code 50050i Q Mon. Site No. FLW-1	Permit Requirement	Report (Mo.Avg.)	MGD				1	q	Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement				4.1.4		Myl	Ø	Bi-monthly	8-hr FPC
PARM Code 80082 Y Mon. Site No. EFA-1	Permit Requirement				20.0 (An.Avg.)		mg/L	¢	Bi-monthly; every 2 months	8-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement			3.8	2.0	3.0	Myl	ø	Bi-monthly	8-hrFR
PARM Code 80082 A Mon. Site No. EFA-1	Permit Requirement			60.0 (Max.)	45.0 (Wk.Avg.)	30.0 (Mo,Avg.)	mg/l_	¢	Bi-monthly; every 2 months	8-hr FPC
Solids, Total Suspended	Sample Measurement				258		Mal	9	Bi-mon Hibe	Shi FRC
PARM Code 00530 Y Mon. Site No. EFA-1	Permit Requirement				20.0 (An.Avg.)		mg/L	ø	Bi-monthly every 2 months	8-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TELEPHONE NO DATE (mm/dd/yyyy) adri Ö Verator

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

FACILITY:

.

.

Sun Lakes Estates WWTF

MONITORING GROUP<br/>NUMBER:<br/>MONITORING PERIODR-001PERMIT NUMBER: FLA010353-003-DW2PTo:05-01-11To:05-31-11

Parameter		Quantity	or Loading	Units	(	Quality or Concentrat	ion	Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement				5.0	5.0	5.0	Mayl	ø	Bi-Month	8-hr FR
PARM Code 00530 A	Permit		1		60.0	45.0	30.0	mg/L	1	Bi-monthly;	8-hr FPC
Mon. Site No. EFA-1	Requirement				(Max.)	(Wk.Avg.)	(Mo.Avg.)	1	V.	every 2 months	
Coliform, Fecal	Sample							LAND.	d	Bi monthe	6.6
	Measurement					1.0		M-ML	1	CI-MONT B	Gran
PARM Code 74055 Y	Permit					200		#/100ml.	d	Bi-monthly,	Grab
Mon. Site No. EFA-I	Requirement					(An Avg.)		1	12	every 2 months	
Coliform, Fecal	Sample Measurement		ľ			10	1.0	\$100ML	0	Bi-monthy	Grab
PARM Code 74055 A	Permit		1			Report	800	#/100mL	<u>+</u>	Bi-monthly	Grab
Mon. Site No. EFA-1	Requirement					(Mo.Geo.Mn.)	(Max.)		9	every 2 months	Giuv
рН	Sample Measurement				7.1		7.2	5.4.	d	5 Dips/week	Grab
PARM Code 00400 A	Permit		1		6.0		85	5,11,	17	5 Days Week	Grab
Mon. Site No. EFA-1	Requirement				(Min.)		(Max.)		9		
Chlorine, Total Residual(For Disinfection)	Sample Measurement				1.6			MyL	9	5 Days/week	Grab
PARM Code 50060 A	Permit				05			me/L		5 Davs/Week	Grah
Mon. Site No. EFA-1	Requirement				(Min.)				19		<i>Cinc</i>
Nitrogen, Nitrate, Total (as N)	Sample Measurement						1.65	Mal	q	Bi-monthly	8-br FRC
PARM Code 00620 A	Permit		***		· · · · · · · · · · · · · · · · · · ·		12.0	ing/L	1	Bi-monthly:	8-hr FPC
Mon. Site No. EFA-1	Requirement						(Max.)		9	every 2 months	
Nitrogen, Total	Sample Measurement				·····		34.6	Myl	1	Bi-mon Hitz	8-h.FR
PARM Code 00600 A	Permit				······		Report	mg/L		Bi-monthly:	8-hr FPC
Mon. Site No. EFA-1	Requirement						(Max.)		9	every 2 months	
Phosphorus, Total (as P)	Sample Measurement						5.5	Myc	\$	Bi-marthy	8-hv FPC
PARM Code 00665 A	Permit						Report	mg/L	d	Bi-monthly;	8-hr FPC
Mon. Site No. EFA-1	Requirement						(Max.)		9	every 2 months	
Flow(Total Through Plant)	Sample Measurement	+029	, 024	Mad					q	Continuas	Moulotdiza
PARM Code 50050 R	Permit	Report	Report	MOD					1	Continuous	Flow Totalizer
Mon. Site No. FLW-1	Requirement	(Mo.Avg.)	(Qt.Avg.)						¢		
Percent Capacity, (TMADF/	Sample						10.1	007	2	A HI	A lout L
Permitted Capacity) x 100	Measurement						, 024	18 10	4	1º/on Chip	Lu Iu le reg
PARM Code 00180 P	Permit						Report	percent		Monthly V	Calculated
Mon. Site No. CAL-1	Requirement						(Mo.Avg.)				

R-001

FACILITY: Sun Lakes Estates WWIF

-

MONITORING GROUP NUMBER: MONITORING PERIOD From: 05-01-11 To: 05-31-11 NUMBER:

PERMIT NUMBER: FLA010353-003-DW2P

Parameter		Quantity	or Loading	Units	Q	uality or Concentrat	ion	Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C(Influent)	Sample Measurement			-			288	1282	q	Bi-monthly	8-hr FPC
PARM Code 80082 Q Mon. Site No. INF-1	Permit Requirement						Report (Max.)	mg/L	q	Bi-monthly; U every 2 months	8-hr FPC
Solids, Total Suspended(Influent)	Sample Measurement						402	Myl	9	Bi-monthly	8-hr FPC
PARM Code 00530 Q Mon. Site No. INF-1	Permit Requirement						Report (Max.)	mg/L	¢	Bi-monthly; every 2 months	8-hr FPC
									Ĺ		
						·					

DAILY	SAMPLE	RESULTS	- PART B
-------	--------	---------	----------

Permit Number: Monitoring Period FLA010353-003-DW2P From: 05-01-11 To: 05-31-11

Facility: Sun Lakes Estates WWTF

	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Nitrogen, Nitrate, Total (as N) mg/L.	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/l.	Solids, Total Suspended mg/L	pH s.u.	Flow (To RIBs) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solida, Total Suspended (Influent) mg/L
Code	80082	50060	74055	00620	00600	00665	00530	00400	50050	80082	00530
MOR. SILC	EFA-I	BPA-1	EFA-I	El A-I	ESP A-1	EFA-1	EFA-1	EFA-I	FLW-1	INF-1	INF-1
2		1.0						7/	INTE		
3		1.9		<u> </u>			<u> </u>	7.2	DII		
4		1.9						7.2	,025		
5		1.8						7.2	1014		
6		1.8						7.1	1012		
7		1.8						7.1	1024		
8											
9		2.0		ļ				7.2	.079		
10		2.0						7.2	1032		
11	2.2	2.0	1.0	0.20	34.6	4.4	5.0	7.2	,059	263	364
12		1.5				ļ		-1, 2	.044		
13		1.8			-	· · · · ·		7.2	1065		
14		2.1		4		<u> </u>		1,2	,007		
15				<u> </u>		<b>_</b>					
10		1.7				<b>_</b>		7.1	,030		
17		1.0						7.2	1026		
18		1,0						7.2	1028		
20		1.5				<b>_</b>		7.7	1031		
20		1.7				<u> </u>	· · · ·	1,1	.031		
21											
22		<u> </u>				<u> </u>		-1 2	. 0 . 7 7		<b> </b>
24		7.0						1.7	1072		
25		0.1	1.0	7		+ 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7		1.2	10-21	914	LING
26	58	1.0	1.0	12.1	×	6.6		12	D18	313	770
27	1	2,0	· · · · · · · · · · · · · · · · · · ·	+		<u> </u>		12	1019		
	<u> </u>							72	.021		
29		1.0	<u> </u>	+		1		1	<u> </u>		
30	<b> </b>	1.5		+	<b> </b>	+	1	72	1022		
31		1.5	1	1		1	1	7.2	,019		1
Total	6.0		2.0	33	34.6	11.0	10.0		,714	576	804
Mo. Avg	3.0		1.0	1.65	34.6	5.5	50		1029	288	402
PLANT S Day Shift	STAFFING: LOperator	Class		Certificate N	(o:		Name:				
Evening	Shift Operator	Class		Certificate N	lo:		Name:				
Night Shi	ift Operator	Class		Certificate N	io:		Name:				

ISSUANCE/REISSUANCE DATE: November 1, 2010

Lead Operator

C

Class:

Certificate No:

-

Padrick

erry

7051 Name: \_\_\_\_



.

•

### ANALYTICAL RESULTS

#### Project: Sun Lakes Estates

Pace Project No.: 3531157

Sample: Eff	Lab ID: 3531157001		Collected: 05/25/11 14:00 Re		Received: 05/	Received: 05/25/11 16:20 Matrix: Water				
Parameters	Results	Units	PQL	MOL	DF	Prepared	Analyzed	CAS No.	Qual	
9222D Fecal Coliform	Analytical I	Method: SM 92	222D Prepar	ation Meth	od: SM	9222D				
Fecal Coliforms	1.0U CI	-U/100 mL	1.0	1.0	1	05/25/11 16:52	05/26/11 14:52			
2540D Total Suspended Solids	Analytical I	Method: SM 28	540D							
Total Suspended Solids	5.0U m	g/L	5.0	5.0	1		05/27/11 08:22			
5210B cBOD, 5 day	Analytical I	Method: SM 52	210B Prepara	ation Meth	od: SM	5210B				
Carbonaceous BOD, 5 day	3.8 m	g/L.	2.0	2.0	1	05/27/11 08:05	06/01/11 08:38			
300.0 IC Anions	Analyticat I	Method: EPA 3	00.0							
Nitrate as N	<b>3.1</b> m	g/L	0.25	0.12	5		05/26/11 11:45	14797-55-8		
365.4 Phosphorus, Total	Analytical I	Method: EPA 3	65.4 Prepara	ation Meth	od: EP/	A 365.4				
Phosphorus, Total (as P)	6.6 m	g/L	0.10	0.050	1	05/31/11 10:00	06/02/11 10:22	7723-14-0		

Date: 06/03/2011 10:16 AM

\_\_\_\_\_

#### **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 5 of 16



•

### **ANALYTICAL RESULTS**

Project: Pace Project No.:	Sun Lakes Estates 3531157	3								
Sample: Infl		Lab ID:	3531157002	Collected:	05/25/11	14:00	Received: 0	05/25/11 16:20	Matrix: Water	
Parame	ters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspe	nded Solids	Analytical	Method: SM 2	540D						
Total Suspended So	lids	<b>440</b> n	ng/L	40.0	40.0	1		05/27/11 08:	22	
5210B cBOD, 5 day	,	Analytical	Method: SM 5	2108 Prepar	ation Meth	od: SM	5210B			
Carbonaceous BOD	,5 day	313 n	ng/L	2.0	2.0	1	05/27/11 08:0	5 06/01/11 08:4	40	

Date: 06/03/2011 10:16 AM

#### **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



Page 6 of 16



#### **ANALYTICAL RESULTS**

Project: Sun Lakes Estates

Pace Project No.: 3531157

Sample: Sludge 10 Lab ID: 3531157003 Collected: 05/25/11 14:00 Received: 05/25/11 16:20 Matrix: Solid Results reported on a "dry-weight" basis Parameters Results Units PQL MDL DF Prepared Analyzed CAS No. Qual Analytical Method: EPA 6010 Preparation Method: EPA 3050 6010 MET ICP

Arsenic	3.6U mg/kg	7.1	3.6	1	05/27/11 13:30	05/31/11 16:28	7440-38-2
Cadmium	2.2 mg/kg	0.71	0.36	1	05/27/11 13:30	05/31/11 16:28	7440-43-9
Chromium	15.6 mg/kg	3.6	1.8	1	05/27/11 13:30	05/31/11 16:28	7440-47-3
Copper	169 mg/kg	3.6	1.8	1	05/27/11 13:30	05/31/11 16:28	7440-50-8
Lead	14.9 mg/kg	7.1	3.6	1	05/27/11 13:30	05/31/11 16:28	7439-92-1
Molybdenum	5.8 I mg/kg	7.1	3.6	1	05/27/11 13:30	05/31/11 16:28	7439-98-7
Nickel	20.2 mg/kg	3.6	1.8	1	05/27/11 13:30	05/31/11 16:28	7440-02-0
Potassium	5360 mg/kg	714	357	1	05/27/11 13:30	05/31/11 16:28	7440-09-7
Selenium	7.81 mg/kg	10.7	5.4	1	05/27/11 13:30	05/31/11 16:28	7782-49-2
Zinc	908 mg/kg	14.3	7.1	1	05/27/11 13:30	05/31/11 16:28	7440-66-6
Percent Moisture	Analytical Method: AS	TM D2974-87					
Percent Moisture	98.6 %	0.10	0.10	1		05/28/11 17:22	

Date: 06/03/2011 10:16 AM

#### **REPORT OF LABORATORY ANALYSIS**

Page 7 of 16





.

# ANALYTICAL RESULTS

#### Project: Sun Lakes Estates

Pace Project No.: 3530471

Sample: Eff	Lab ID:	3530471001	Collected:	05/11/11	12:00	Received: 05/	11/11 16:02 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL.	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytical	Method: SM 92	22D Prepara	ation Meth	nod: SM	9222D			
Fecal Coliforms	1.0U C	FU/100 mL	1.0	1.0	1	05/11/11 16:26	05/12/11 15:59		Y
2540D Total Suspended Solids	Analytical	Method: SM 25	540D						
Total Suspended Solids	5.0U m	ıg/L	5.0	5.0	1		05/16/11 08:18		
5210B cBOD, 5 day	Analytical	Method: SM 52	10B Prepara	ation Meth	od: SM	5210B			
Carbonaceous BOD, 5 day	2.2 m	g/L	2.0	2.0	1	05/13/11 07:30	05/18/11 08:46		
Total Nitrogen Calculation	Analytical	Method: TKN+I	NOx Calculat	ion					
Total Nitrogen	<b>34.6</b> m	ıg/L	0.50	0.25	1		05/19/11 07:02		
300.0 IC Anions	Analytical	Method: EPA 3	00.0						
Nitrate as N	0.20 m	ıg/L	0.10	0.050	2		05/12/11 13:29	14797-55-8	
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepara	ation Meth	iod: EP/	A 351.2			
Nitrogen, Kjeldahl, Total	<b>34.6</b> m	ig/L	0.50	0.25	1	05/17/11 10:15	05/18/11 13:04	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.034 I m	ıg/L	0.050	0.025	1		05/16/11 15:28		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepara	ation Meth	od: EP/	A 365.4			
Phosphorus, Total (as P)	<b>4.4</b> m	ig/L	0.10	0.050	1	05/17/11 10:15	05/18/11 13:04	7723-14-0	

Date: 05/20/2011 10:11 AM

#### **REPORT OF LABORATORY ANALYSIS**

Page 5 of 15





\$

.

# ANALYTICAL RESULTS

Project: Sun Lakes Estates

Pace Project No.: 3530471

Sample: Infl	Lab ID: 3530471002		Collected: 05/11/11 12:00		Received: 05/	11/11 16:02 Ma	Matrix: Water		
Parameters	Results	Units	PQL	MDL	ÐF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical	Method: SM 2	540D						
Total Suspended Solids	364 n	ng/L	40.0	40.0	1		05/16/11 08:18		
5210B cBOD, 5 day	Analytical	Method: SM 5	2108 Prepa	ration Meth	iod: SM	5210B			
Carbonaceous BOD, 5 day	<b>263</b> m	ng/L	2.0	2.0	1	05/13/11 07:30	05/18/11 08:47		

Date: 05/20/2011 10:11 AM

#### **REPORT OF LABORATORY ANALYSIS**

Page 6 of 15



#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

# When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME; MAILING ADDRESS;	Sun Lakes Homeowners Association 5600 US Hwy 1 N	PERMIT NUMBER:	FLA010353-003-DW2P	Expiration Date:	October 27, 2015
	Sharps, Florida 32927	LIMIT: CLASS SIZE:	Final N/A	REPORT FREQUENCY:	Monthly
FACILITY: LOCATION:	Sun Lakes Estates WWTF 616 Emerald Lake Drive	MONITORING GROUP NUMBER: MONITORING GROUP DESCRIPTION:	R-001 Repid Infiltration Basin (RIB).	including Influent	220100300
	Cocoa, FL 32926-4648	RE-SUBMITTED DMR:			
COUNTY: OFFICE:	Brevard Central District	MONITORING PERIOD From:	06-01-/1 To:	06-30-11	

Parameter		Quantity or Loading	Units	(	Quality or Concentrat	ion	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow(To RIBs)	Sample Measurement	128	MyD			[	1	¢	Continues	Place Totaliza
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement	0.135 (An.Avg.)	MGD	·····	-			ø	Continuous	Flow Totalizer
Flow(Total Through Plant)	Sample Measurement	1028	Myp					9	Continuous	Man Totalizo
Mon. Site No. FLW-1	Permit Requirement	0.135 (An Avg.)	120D				1	¢	Continuous	Flow Totalizer
PHOW(10 KLESS)	Sample Measurement	1018	MD					9	Continuous	Flow Total 12
Mon. Site No. FLW-1	Permit Requirement	Report (Mo.Avg.)	MGD					q	Continuous	Flow Totalizer
DOD, Cardonaceous 5 day, 20C	Sample Measurement				4.52		My/L	9	fimonthly	8thr FRC
Mon. Site No. BFA-1	Requirement				20.0 (An Avg.)		fig/L	Ø	Bi-monthly; every 2 months	8-hr FPC
PADA Code 20022	Sample Measurement			3.8	1.6	3.2	Pale	1	Bi-monthly	8-br FPC
Mon. Site No. EFA-1 Solide Total Summand	Requirement			60.0 (Max.)	45,0 (Wk.Avg.)	30.0 (Mo.Avg.)	mg/L.	Ø	Bi-monthly; every 2 months	8-hr FPC
PAPM Code 00620 V	Measurement				7.59		Map		Bi-monthly	8-hr FPC
Mon. Site No. EFA-1	Requirement				20,0 (An.Avg.)		mg∕L.		Bi-monthly; every 2 months	8-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TELEPHONE NO DATE (mm/dd/yyyr) ator PW \* One Appropries was inadventantly Left off custody B. Pulled Scray COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here): 1NAS

FACILITY: Sun Lakes Estates WWIF

.

I N

· ·

MONITORING GROUP NUMBER: NUMBER: MONITORING PERIOD

R-001

PERMIT NUMBER: FLA010353-003-DW2P  $\begin{array}{c} \text{R-001} & \text{PERMIT NUMBER: FI} \\ \text{From:} \quad \underline{06-01-11} & \text{To:} \quad \underline{06-30-11} \\ \end{array}$ 

Parameter		Quantity	or Loading	Units	(	Quality or Concentration	011	Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement	1	T		10.5	1.93	.775	March	d	Bi-month y	g-hr FPC
PARM Code 00530 A	Permit		+		60.0	450	200	mali	μ	Dimental	0 1- 1700
Mon. Site No. EFA-1	Requirement				(Max)	43.0 (W/κ Δυσ.)	70.0 /Mo.Avm.)	ug/2	0	Di-monthy;	8-m rrC
Coliform, Fecal	Sample	1	1		(1100.)		(1483-1-24 8.)	172	<u> </u>	Civery 2 Monaus	
	Measurement	Í	1			75410		MAL	19	15-monthly	Oneb
PARM Code 74055 Y	Permit	I	T			200	*****	#/100mL	7	Bi-monthly	Grah
Mon. Site No. EFA-1	Requirement					(An Avg.)			14	every 2 months	
Coliform, Fecal	Sample		1					Later a.	7	A. 14.	01
	Measurement	<u> </u>				1.0	1.0	Plan L	14	pc7-hantsi	Crato
PARM Code 74055 A	Permit		1		,	Report	800	#/100mL	~	Bi-monthly	Grab
Mon. Site No. EFA-1	Requirement		<u>L</u>			(Mo.Geo.Mn.)	(Max.)	1	19	every 2 months	
рн	Sample			1		1	· •	1011	S	5. Durland	Cal
DADA CLA DOLLOG	Measurement				(.[		1.6	124	14	place	Crak
PARM Code 00400 A	Permit				6.0		8.5	8,12,	1	5 Days/Week	Grab
Chloring Total Deside 147	Requirement				(Min.)		(Max.)		Ľ.		
Chiorine, I our Resultan Por	Sample				<i>i</i> .			M.I.	1	5 Jax Incole	Cab
PAPAI Code SOLO A	Measurement							14/2	Ľ	pringer	07862
Mon Site No RFA-1	Pennit				0.5	1		ing/L	d	5 Days/Week	Grab
Nitrogen Nitrate Total (as N)	- Roqui cinent				(Min.)	····	**************************************		Ľ,		
(in open, rinder, rout (as re)	Measurement						2.58	Are IL	9	Bi-monthly	8-hIFR
PARM Code 00620 A	Permit			-1		· · · · · · · · · · · · · · · · · · ·	12.0	ha/L	1	Bi-monthly	8-hr FPC
Mon. Site No. EFA-1	Requirement						(Max.)		9	every 2 months	
Nitrogen, Total	Sample			1					1	12. 111	mi.L.M
	Measurement						42.6	My/L	¥	Ci-manner y	8-411C
PARM Code 00600 A	Permit						Report	mg/L	N	Bi-monthly,	8-hr FPC
VIOL SILE NO. EFA-I	Requirement						(Max.)		¥.	every 2 months	
rnosphorus, iotai (as P)	Sample						2 -	1.1	đ	King JA	OLED!
ARM Code 00565 A	Denia						<u> </u>	marc	<u>У</u> ,	1 months	OMITC
Mon Site No FEA-1	Permit			1 1			Report	"fog/L	d	Bi-monthly;	8-br FPC
Total Through Plant)	Requirement					l	<u>(Max.)</u>	<b>.</b>	7,	every 2 months	
son ( tome the ought tank)	Magurement	810	.024	Mad					1	Carting	Fluttel
ARM Code \$0050 R	Permit	Parcet	Bannat	1900				<u> </u>	-×	Continue	1 100 18-01.70
don. Site No. FLW-1	Requirement	(Mo Avg )	(Ot Ave )	MOD				1	0	Continuous	Flow Totalizer
ercent Capacity, (TMADF/	Sample	Cardina and Ball	(Xerrie)	+					-Z		
ermitted Capacity) x 100	Measurement						018	18 6	1	Monthle	1 leubted
ARM Code 00180 P	Permit						Report	nercent	1	Manthh	Calculated
fon, Site No. CAL-1	Requirement	1					(Mo Ave )		4	TANGHTER C	Calcutated

FACILITY

. .

Sun Lakes Estates WWTF

MONITORING GROUP NUMBER: MONITORING PERIOD

R-001 PERMIT NUMBER: FLA010353-003-DW2P From: 06-01-11 To: 06-30-11

Parameter		Quantity	or Loading	Units	Q	uslity or Concentral	ion	Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C(Influent)	Sample Measurement			1			229	Mall	q	Bi-monthly	8-hr FPC
PARM Code 80082 Q Mon. Site No. INF-1	Permit Requirement						Report (Max.)	<b>%ag</b> ∕L	Ø	Bi-monthly; every 2 months	8-hr FPC
Solids, Total Suspended(Influent)	Sample Measurement						484	male	1	Gi-monthly	8-hr FPC
PARM Code 00530 Q Mon. Site No. INF-1	Permit Requirement						Report (Max.)	inte/L	1	Bi-monthly, every 2 months	8-hr FPC

# **DAILY SAMPLE RESULTS - PART B**

Permit Number: Monitoring Period 

	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L	Solids, Totai Suspended mg/L	pH s.u.	Flow (To RIBs) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Total Suspended (Influent) mg/L
Code Mon. Site	80082 EFA-1	50060 EFA-1	74055 EFA-1	00620 EFA-1	00600 EFA-1	00665 FFA-1	00530 EFA-1	00400 FPA 1	50050	80082 TNE 1	00530
1		1.5			14 17 1	Li 77-1	La rie I	7.2	12/9	1141-1	4P42*-1
2		1.7						7.2	014		
3		1.5					<b></b>	7,2	020		
4		1.0						7.2	.014		
5											
6		1.5						7.1	:016		
7		1.0						7.1	1016		
8		1.0						7.1	017		
		.8						7.1	1016		
10		1.2			·			7.2	.018		
		1.2			·			7.2	.016		
12											
10		1.0			· · · · · · · · · · · · · · · · · · ·			7,2	.018		
14		1.0						7.2	,013		
16		1.1						7.2	10-1		
17		1.0						7.5	1021		
18		1.0				<b> </b>		12	1015		
19		lit				<b> </b>		1000	1022		
20	z C	1-		20	200	V.	5.0	72	017	716	Had
21		~~~	1.0	-7. Z	2011	- <u>T</u>	5.0	72	1025	<u> </u>	7.07
22		20						7.2	1008	<b>_</b>	
23		10						12	018		
24		1.0			<u> </u>			72	.010	<b> </b>	
25	·· ····	20				1		7.2	.017		
26						t					
27		1.0		1				7.2	.010		
28	26	1.3	1.0	¥0.27	46.3	25	10.5	7.2	.035	229	4/84
29		1.3						72	.015		
30		1.1						7.2	.034		
31											<i>a</i>
Total	6.4		2.0	5.17	852		155		.464	448	838
Mo. Avg.	3.2		<i>j.0</i>	2.58	42.6	2.5	7-75		1018	221	444

PLANT STAFFING: Day Shift Operator	Class:	<u></u>	Certificate No:		Name:	
Evening Shift Operator	Class:		Certificate No:	· <u>····································</u>	Name:	
Night Shift Operator	Class:		Certificate No:		Name:	
Lead Operator	Class:	<u> </u>	Certificate No:	7051	Name:	Jerry Padrick
			hab die	d not hus	, due "	To Error on my Part Sorry

ISSUANCE/REISSUANCE DATE: November 1, 2010

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

#### When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: MAILING ADDRESS	Sun Lakes Homeowners A	secciation	PERMIT NUMBER:			FLA010353-003-DW	2P E	xpiratio	m Date:	October 27, 20,	15
	Sharps, Florida 32927		LIMIT: CLASS SIZ	'E ·		Final	R	EPORT	FREQUENCY:	Monthly	
FACILITY:	Sun Lakes Estates WWTF		MONITOR	ING GROUP NUK	BER:	R-001	# :	NOOK	141 <sup>-</sup>	LOINESUE	
LOCATION:	616 Emerald Lake Drive		MONITOR	ING GROUP DES	CRIPTION:	Rapid Infiltration Basi	n (RIB), incl	uding It	iffuent		
	Cocoa, FL 32926-4648		RE-SUBMI	TTED DMR:							
COUNTY:	Brevard		MONITOR	ANGE FROM SEL	E: L	07-01-11	Tor	17	-31-11		
OFFICE:	Central District		1100 120 420		1 1044			<u> </u>	·····		
Parameter		Quantity or Loading	Units	Q	uality or Concer	uration	Units	No.	Frequency of	Sample Type	1
Many (To DID.)			-↓↓					Ex.	Analysis		
riow(10 KIBS)	Measurement	,027	1.60		1			9	Continues	The tobar	
PARM Code 50050 Y	Permit	0.135	MGD				+	11	Continuous	Flow Totalizer	1
Mon. Site No. FLW-1	Requirement	(As Avg.)			}			12			}
Flow(Total Through Plant)	Sample Measurement	Dila	Kap				T	0	Buckensie	Flow Hotel	1
PARM Code 50050 1	Permit	0.135	MGD		<u> </u>			+7	Continuous	Flow Totalizer	ť
Mon. Site No. FLW-1	Requirement	(An.Avg.)						10			1
Flow(To RIBs)	Sample Measurement	.016	140		[		1	d	Continues	Partital	1
PARM Code 50050 Q	Permit	Report	MOD		<u> </u>		-	+	Continuous	Flow Totalizer	1
Mon. Site No. FLW-1	Requirement	(Mo.Avg.)	1 1					10			
BOD, Carbonaceous 5 day, 20	C Sample				447		100	11	Brastille	R-L. Fir	1
PARM Code 80082 Y	Permit		╂╍╍╍╍╉		20.0		1200	$\mathbf{V}_{\mathbf{v}}$	Di manfieles	d 1 1000	4
Mon. Site No. EFA-1	Requirement				(An Ave)		108/1.	9	every 2 months	8-01 PPC	
BOD, Carbonaceous 5 day, 20	C Sample		<u>†</u> †	10			12	1		a 1 .501	
	Measurement			4.8	1.95	59	1. year	19	Dermartille	X-horte	1

Solids, Total Suspended Sample FP 7.96 Measurement - heinta - Spel PARM Code 00530 Y Permit 20.0 me/L Bi-monthly, 8-hr FPC Mon. Site No. EFA-1 Requirement (An.Avg.) every 2 months I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate

60.0

(Max.)

the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

Permit

Requirement

PARM Code 80082 A

Mon. Site No. EFA-1

1 F

jerr Water

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

Pinched Newson next Scrip

45.0

(Wk.Avg.)

30.0

(Mo.Avg.)

 $m_2/L$ 

TELEPHONE NO DATE (mm/dd/yyyy) 34139-1273 54/01/ Doll

8-hr FPC

Bi-monthly

every 2 months

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

1

FACILITY:

٠

٠,

Sun Lakes Estates WWTF

MONITORING GROUP NUMBER: MONITORING PERIOD R-001 PERMIT NUMBER: FLA010353-003-DW2P

				NUMBER MONITOF	: NING PERIOD	From:	<u>0/-//</u> to	:	- 3	<u>1-/i</u>	
Parameter		Quantity	or Loading	Units		Quality or Concentrati	on	Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement				2.0	6.15	125	Mal	Ć	Bimonthele	X-6 TH
PARM Code 00530 A	Permit		1		60.0	450	30.0	mg/L	1.17	Rimonthin	S.h. FDC
Mon. Site No. EFA-1	Requirement				(Max.)	(Wk.Avg.)	(Mo.Ava.)		C	every 2 months	0°40 FTC
Coliform, Fecal	Sample		1			,		HE an	1	0 0	6.1
	Measurement		<u> </u>			1.0		1 18 112	14	Ci-merting	Direb
PARM Code 74055 Y	Permit					200		#/100ml	1	Bi-monthly	Grab
Woll She No. EFA-1	Kequirement				*	(An Avg.)			<u>Ľ (</u>	every 2 months	
Contomi, recai	Sample					1 1	1.5	F log Fay	đ	R. multibe	Cash
PARM Code 74055 A	Permit		<u>+</u>		······································			7 50 P	<u>لــــــــــــــــــــــــــــــــــــ</u>	1. I SWAM	Critical
Mon. Site No. EFA-1	Requirement					Report	800	#/100ml	d	Bi-monthly	Grab
pH	Sample		<u>+</u>				(INRAX.)		<u>↓ ₽</u>	every 2 monins	
ſ	Measurement				7.1		7.6	5.6.	10	5 this with	Canp
PARM Code 00400 A	Permit		1		6.0		8.5	8,0.	12	5 Davs/Week	Grab
Mon. Site No. EFA-1	Requirement				(Min.)		(Max.)		0	- Duja nea	0140
Chlorine, Total Residual(For	Sample				· · · · · · · · · · · · · · · · · · ·			A i	at	rn 1 1	1.1
Disinfection)	Moasurement				1.0			146	V.	P in ps fint	CPAD
PARM Code 50060 A	Permit				0.5			mg/L.	1	5 Days Week	Grab
MOR. SHE NO. EPA-I	Requirement				(Min.)		Trac		1		
Muogen, Minale, Total (45 N)	Measurement					9.06	XX	Mal	C	Gimently	8-WEPP
PARM Code 00620 A	Permit				······································	1	12.0	nug/L	1	Bi-monthly	8-hr FPC
Mon, Site No. EFA-1	Requirement						(Max.)		4	every 2 months	
Nitrogen, Total	Sample						. / /	1	17	12 14	at 1 Car
	Measurement					7.0	.011	1.00		Di nentry	S-AITA
Man Site No. 2014 1	Permit						Report	mg/L		Bi-monthly,	8-hr FPC
Decemborie Total (as D)	Requirement				······································		(Max.)		1	every 2 months	
Lisospienius, Louat (431)	Measurement						7.2	Mil	1	Birnerth	22 FA
PARM Code 00665 A	Permit		······································				Report	ma/L	14	Bi-monthly	Sahr FPC
Mon. Site No. EFA-1	Requirement						(Max.)		11	every 2 months	
Flow(Total Through Plant)	Sample Measurement	.016	.021	A. d					1	Continue	I low Total
PARM Code 50050 R	Permit	Report	Report	Man					¥.,	Continue	Ran Jon Me
Mon. Site No. FLW-1	Requirement	(Mo.Ava.)	(Qt.Avg.)						1	COMPANY	riow i otalizer
Percent Capacity, (TMADF/	Sample					<u>†</u>		200	1	the second	
Permitted Capacity) x 100	Measurement						.016	15.5%	1	1 lonthy	Collecte
PARM Code 00180 P	Permit					1	Report	percent	1	Monthly	Calculated
Mon. Site No. CAL-1	Requirement						(Mo.Avg.)		1	,	

FACILITY Sun Lakes Estates WWIF

-

.

MONITORING GROUP NUMBER:

R-001 PERMIT NUMBER: FLA010353-003-DW2P

MONITORING PERIOD From: <u>7-1-11</u> To: <u>7-31-11</u>

Parameter	Quantity		ty or Loading Units		reality or Concentration		Units	No. Ex	Prequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C(Influent)	Sample Measurement					177	Myl		Bi-months	B-br FR
Mon. Site No. INF-1	Requirement					Report (Max.)	mg/L	Τ	Bi-monthly;	8-hr FPC
Solids, Total Suspended(Influent)	Sample			1		1.63	Mal	1	B-malli	A-by FR
PARM Code 00530 Q Mon. Site No. INF-1	Permit Requirement					Report (Max.)	mg/1.	†	Bi-monthly;	8-hr FPC
				Ι				1		
					1	1				
						1		T		
						1		1		······································
						[		1		<b></b>
								1		· · · · · · · · · · · · · · · · · · ·
						1		1		
							1			
							1			
							1	1		

	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/l.	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/L	pH s.u.	Flow (To RIBs) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Tota Suspended (Influent) mg/L
Code	80082	50060	74055	00620	00600	00665	00530	00400	50050	80082	00530
Aon. Site	EFA-1	EFA-1	EFA-1	EFA-I	EFA-l	EFA-1	EFA-1	EFA-1	FLW-1	INF-1	INF-1
	<u> </u>	1.0						7.2	.010		
		1-3						1.2	. 217		
4								171	2		
				<u> </u>				Holi	day_		
- 6		1.0		<u> </u>			<b> </b>	7.2	.0.21	}	
7		1,0			······			7.2	1013		
· · ·		ek, l						<u></u>	1017		
9		2.0		<u> </u>	<u> </u>			l's mil	1013		
10		1,8	··		····			7.1	1024		
10				<u>    </u>	<u> </u>			-7 -			
10		1.5						1 sum	-016		
12		1.5		<b> </b>				7.2	1021	ļ	
15		1.5						7.2	.013		
14		1.5						72	1013		
15		1.5		ļ				7.2	.016		
10		1.2		<u> </u>				7.1	1013		
17											
18		1.0						7.1	116		
19	3.0	1.5	1.0	18.1	13.6	3.8	5.0	7,2	1015	166	316
20		1.2						7,1	.020		
21		1.0						7.2	1617		
22		1.5						7.2.	.013		
23											
24		1.0						7,2	.018		
25	4.8	1.8	1.0	.025	0.41	7.2-	20.0	7.2	,014	188	1010
26		1.8						7.2	.0/1		
27		2.4						7.2	,022		
28		2.0						7.2	,020		
29		20						7.2	:011		
30											
31											
Total	7.8		20	18.12	14.01	11.0	25.0		. 394	354	1326
to. Avg.	39		1.0	906	7.00	5.5	125		1016	117	663

# DAILY SAMPLE RESULTS - PART B

ISSUANCE/REISSUANCE DATE: November 1, 2010

Class:

Class:

Night Shift Operator

Lead Operator

2

057

Name:

Name:

Prr

Certificate No:

Certificate No:

adrice

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

#### When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: MAILING ADDRESS:	Sun Lakes Homeowners Association 5600 US Hwy 1 N	PERMIT NUMBER:	FLA010353-003-DW2P	Expiration Date:	October 27, 2015
	Sharps, Florida 32927	LIMIT: CLASS SIZE:	Final N/A	REPORT FREQUENCY:	Monthly
FACILITY: LOCATION:	Sun Lakes Estates WWTF 616 Emerald Lake Drive Cocoa, FL 32926-4648	MONITORING GROUP NUMBER: MONITORING GROUP DESCRIPTION: RE-SUBMITTED DMR:	R-001 Rapid Infiltration Basin (RIB),	including Influent	Domeste
COUNTY: OFFICE:	Brevard Central District	MONITORING PERIOD From:	08-01-11 To:	08-31-11	

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type	
Flow(To RIBs)	Sample Measurement		.026	MgD			]		9	Continuous	Flowtotelize
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement		0.135 (An.Avg.)	MGD			1		1	Continuous	Flow Totalizer
Flow(Total Through Plant)	Sample Measurement		.026	MyP			1		10	Vontinung	Flow tokling
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement		0.135 (An.Avg.)	MGD				1	19	Continuous	Flow Totalizer
Flow(To RIBs)	Sample Measurement		.024	MyD					10	Continuous	Plan totalizor
PARM Code 50050 Q Mon. Site No. FLW-1	Permit Requirement		Report (Mo.Avg.)	MGD			1		9	Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement					4.30		Myl	đ	Bi-monthly	8-hr. FRC
PARM Code 80082 Y Mon. Site No. EFA-1	Permit Requirement					20.0 (An Avg.)		nog/L	d	Bi-monthly,	8-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement				2.6	1.15	2.3	Mal	1	Gi-monthal	J-hr FRC
PARM Code 80082 A Mon. Site No. EFA-1	Pennit Requirement				60.0 (Max.)	45.0 (Wk.Avg.)	30.0 (Mo.Avg.)	mg/L.	0	Bi-monthly;	8-hr FPC
Solids, Total Suspended	Sample Measurement					7.84	Sector 2 - 2'	mal	đ	Bi-monthle	8-hr FRC
PARM Code 00530 Y Mon. Site No. EFA-1	Permit Requirement					20.0 (An.Avg.)		/mg/L	¢	Bi-monthly;	8-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submittingfalse information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TELEPHONE NO DATE (mm/dd/yyyy) 321-639-12770 201 Caril operator

COMMENTAND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here);

\* LAB Missed Running Sample:

FACILITY:

,

PARM Code 00180 P

Mon. Site No. CAL-1

.

Sun Lakes Estates WWIF

MONITORING GROUP NUMBER: MONITORING PERIOD

R-001 From: 08-01-11 To: 09-31-11

PERMIT NUMBER: FLA010353-003-DW2P

Parameter		Quantity or Loading		Units	Units Quality or Concentration					Frequency of	Sample Type
Solids, Total Suspended	Sample				80	3.15	1.6	Mide	Ø	R:-months	OL FPC
PARM Code 00530 A	Dermit				0 -0		65	1.1	↓ <b>Z</b>	VIII N	8-11-
Mon. Site No. EFA-1	Reminement		1		00.0 (b.(m)	45,0	30,0	Tug/1.	d	Bi-monthly	8-hr FPC
Coliform, Fecal	Sample		~		(IVMA.)	(WLAVE)	(PRO.AVE.)		<u>اللہ</u>	every 2 months	+
·	Measurement		1			1.0		Floory	d	Ki-month	lon b
PARM Code 74055 Y	Permit				······	200		#/100mT	17 -	P mothing	
Mon. Site No. EFA-1	Requirement			- I - I		(An Ava)		10/10/01112	0	Di-monuty;	0180
Coliform, Fecal	Sample		· · · · · · · · · · · · · · · · · · ·			( darste.)	+	1.7-	<u>⊢∕</u> -	EVERY 2 HRAPPER	
	Measurement					1.0	1.0	Front	Ø	12-marth	(yak
PARM Code 74055 A	Permit					Report	800	#/100mL		Bi-monthh	Grah
Mon. Site No. EFA-1	Requirement					(Mo.Geo.Mn.)	(Max.)		0	every 7 months	Ciau
pH	Sample		<u> </u>				† <u> </u>	1			
	Measurement				7.6		7.2	5.4	d	5 Laxshurd	Brus
PARM Code 00400 A	Permit		Τ	1 1	6.0	1	8.5	\$.U.	17	5 Davs/Week	Grab
Mon. Site No. EFA-1	Requirement				(Min.)		(Max.)		0		U.L.U
Chlorine, Total Residual(For	Sample			1 1	, ,	1		1.1	~	Davel 1	
Disinfection)	Measurement				1.0			19ge	10	June	Grat
PARM Code S0060 A	Permit				0.5	1		mg/L.	$\sim$	5 Days/Week	Grab
MOR. SHE NO. EFA-I	Requirement				(Min.)				V		
wrogen, Mirate, Total (as N)	Sample		1				A . 7		0	R. III	ai En
ADM Cala OCCO	Measurement		L				0,0321	me	1	Ormonly	S-hrmc
ANNICOLEUUDAU A	Permit			1 1			12.0	stag/L	d	Bi-monthly	8-hr FPC
Jitragen Total	Requirement						(Max.)		9	every 2 months	
anogen, roun	Sample						A PIC	M.	n	0. 11	AI GA
	Measurement		ļ		· · · · · · · · · · · · · · · · · · ·		0,012	192	1	Dirpontal	July IIC
Aon Site No FRA-1	Permit			1 1			Report	10g/L	d	Bi-monthly	8-hr FPC
homborus Total (as P)	Requirement					<u> </u>	(Max.)		¥.	every 2 months	
auphones, rour (usi)	Measurement						35	Mal	Ó	Bi-m-H	91. FPI
ARM Code 00665 A	Permit					+	Demont	mad		Dimentality	
Aon. Site No. EFA-I	Requirement					<b>I</b> .	(May )	- "	0	Di-monuty,	o-mrrt.
low(Total Through Plant)	Sample Measurement	. 024	019	mad			(11103.)		Ő	Continues	Fl. bl.
ARM Code 50050 R	Permit	Report	Report	MGD				<u>├</u>	7_	Continues	Flow Totaling
Ion. Site No. FLW-1	Requirement	(Mo Avg.)	(OLAVE)						Ø	Communicus	FIOW LOUALIZET
rcent Capacity, (TMADF/	Sample			╉╼╍╍╉					4		
smitted Capacity) x 100	Measurement						.024	18 10	9	Monthl	1 alculated
ARM Code 00180 P	Darmit							10	1.	1 10 31 11	Chi Contral a

Requirement

Permit

percent

0

Monthly

Calculated

Report

(Mo.Avg.)
FACILITY:

.

.

Sun Lakes Estates WWTF

MONTFORING GROUP NUMBER: MONITORING PERIOD

R-001 PERMIT NUMBER: FL From: <u>08-01-11</u> To: <u>08-31-1</u>

PERMIT NUMBER: FLA010353-003-DW2P

Parameter	T	Quantity	or Loadino	Linite	1	Paulity or Concentre	tion	1 Ilmite	1 Ma	I Freeman of	Somela Toma
			or troubling	0.0.0	Ì	Quanty of Corrected	12013	Units	Ex	Analysis	Sample Type
BOD, Carbonaceous 5 day,	Sample			1		T	T	1.1	1	12. 111	1 50
20C(Influent)	Measurement			. [			193	Myc	9	Oi-monthy	SWITC
PARM Code 80082 Q	Permit		1			1	Report	Ser.	1	Bi-monthly	8-hr FPC
Mon. Site No. [NF-]	Requirement						(Max.)		19	every 2 months	
Solids, Total Suspended(Influent)	Sample			T		1	210	111	d	$D_{i}$ $ili$	OL. FO
PARM Carls Open o	Measurement						260	1.20	1	Di mostary	8-mr R
Mon Site No INF 1	Permit						Report	ing/L	,	Bi-monthly;	8-hr FPC
NUME ONE INC. [NF-]	Kequirement	f					(Max.)	L		every 2 months	
					1	1					
	}			+						L	
				Î							
	t	1		·		+	+	+	<b>_</b>		
					1						
		1	······	1		+	1				,,,,,,,,
				1	1						
			1	1		1		1			
						,	1				
							1				
				Ļ			<u> </u>				
				1			:				
				<b> </b>	<u> </u>	<b></b>	ļ				
											·
				<u> </u>	<u> </u>						
				ļ		1					
			1	1		<u> </u>					
				1							
				1	1						
			·	[							
				1							
Í											

Permit 1 Monitor	Number: ring Period	FLA010353 From:	-003-DW2P 8-0/-/	/ To:	08-31	-/1	Facility:	Sun Lakes Est	ntes WWTF		
	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/L	pH s.u.	Flow (To RIBs) MGD	BOD, Carbonaceous 5 day, 20C (influent) mg/L	Solids, Total Suspended (Influent) mg/L
Code Mon Site	80082	50060	74055	00620	00600	00665	00530	00400	50050	80082	00530
1	LIAN		LTA-1	EFA-i	EFA-I	ErA-I	EFA-1	EFA-1	FLW-1	INF-1	INF-1
2		1.7	· · · · · · · · · · · · · · · · · · ·					7.2	DID		
3		15			· · · · · · · · · · · · · · · · · · ·			7.2	.014		
4		1.5						70	,021		
5		1.0						7.0	,007		
6		2.1						7.1	.043		
7											
8		2.4						7.1	1021		
9	2-0	2.0	1.0	×	0.86	37	5.0	7.1	,021	193	360
10		2.0						7.1	1027		
11		1.5						71	.039		
12		1.0						7.1	000		
13		1.2						7,1	,0>1		
14											
15		1.0						7,2	1026		
10		1.2		l				7.2	1028		
17		1.2			·			1.2	.010		
10		1.5						7.2	1026		
20		1.5	-					7.4	1623		
21		1.0						1,1	1020		
22		<del>ر ()</del>						- 1	120		
23	21	10	1	A 4 7. 1	6 77	2.1	٢٦.	1.1	1030		12
24	A - La		- 1 . O	0,0341	0.77	27	80		1015	147	63.0
25		20							1021		
26		1.5						7.2	127		
27		15						-11	1025		
28		1.2							10-0		
29		10	<u> </u>					-7.1	. 136		
30		2.1	1					7.1	1025		
31		2.1				1		7.1	.052		
Total	46		2.0		1.63	7.6	13.0	· · · ·	.642	340	423
Mo. Avg,	2.3		1.2	0,0321	0.815	3.8	6.5		1024	170	211
PLANT S	TAFFING										

**DAILY SAMPLE RESULTS - PART B** 

Dey Shift Operator	
Evening Shift Operator	1
Night Shift Operator	

Lead Operator

Class: Certificate No: Class: Certificate No: Class: Certificate No: Class: Certificate No:

-----

	Name:
	Name:
	Name:
7051	Name:

err ad rics

ISSUANCE/REISSUANCE DATE: November 1, 2010

\_\_\_\_\_

4



.

## **ANALYTICAL RESULTS**

Project: Sun Lakes Estates 141

Pace Project	No.:	35351
--------------	------	-------

Sample: Infl	Lab ID: 3535141002		Collected: 08/09/11 10:30		Received: 08/09/11 14:40		trix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical	Method: SM 2	540D						
Total Suspended Solids	360 n	ng/L	40.0	40.0	1		08/11/11 08:13		
5210B cBOD, 5 day	Analytical	Method: SM 5	210B Prepa	ration Meth	od: SM	5210B			
Carbonaceous BOD, 5 day	<b>193</b> n	ng/L	2.0	2.0	1	08/10/11 07:30	08/15/11 11:43		

Date: 08/18/2011 07:37 AM

#### **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.. Page 6 of 13



.

### ANALYTICAL RESULTS

#### Project: Sun Lakes Estates Pace Project No.: 3535141

1 400 1 10 000 141									
Sample: Eff	Lab ID: 3535141001		Collected: 08/09/11 10:30		Received: 08/	09/11 14:40 M	atrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytica	al Method: SM 9	222D Prepa	ration Meth	nod: SN	1 9222D			
Fecal Coliforms	1.00	CFU/100 mL	1.0	1.0	1	08/09/11 15:10	08/10/11 12:00		Y
2540D Total Suspended Solids	Analytica	al Method: SM 2	540D						
Total Suspended Solids	5.0U	mg/L	5.0	5.0	1		08/11/11 08:13		
5210B cBOD, 5 day	Analytica	al Method: SM 5	210B Prepa	ration Meth	nod: SM	1 5210B			
Carbonaceous BOD, 5 day	2.0U	mg/L	2.0	2.0	1	08/10/11 07:30	08/15/11 11:41		
300.0 IC Anions	Analytica	al Method: EPA 3	300.0						
Nitrate as N	0.86	mg/L	0.10	0.050	2		08/10/11 11:46	14797-55-8	
365.4 Phosphorus, Total	Analytica	al Method: EPA 3	365.4 Prepa	ration Meth	nod: EP	A 365.4			
Phosphorus, Total (as P)	3.7	mg/L	0.10	0.050	1	08/10/11 09:10	08/11/11 09:28	7723-14-0	

Date: 08/18/2011 07:37 AM

#### **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.,

----

Page 5 of 13



4

# ANALYTICAL RESULTS

Pace Project No.: 3536291

Sample: Eff	Lab ID:	3536291001	Collected	08/23/11	11:00	Received: 08/	23/11 15:52 Ma	trix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Quai
9222D Fecal Coliform	Analytica	I Method: SM 9	222D Prepar	ation Meth	od: SN	9222D			
Fecal Coliforms	1.0U (	CFU/100 mL	1.0	1.0	1	08/23/11 16:20	08/24/11 15:40		Y
2540D Total Suspended Solids	Analytica	Method: SM 2	540D						
Total Suspended Solids	8.0	mg/L.	5.0	5.0	1		08/24/11 11:00		
5210B cBOD, 5 day	Analytica	I Method: SM 5	210B Prepar	ation Meth	od: SN	5210B			
Carbonaceous BOD, 5 day	<b>2.6</b> 1	mg/L	2.0	2.0	1	08/24/11 07:35	08/29/11 12:44		
Total Nitrogen Calculation	Analytica	i Method: TKN-	+NOx Calcula	tion					
Total Nitrogen	7.1	mg/L	0.50	0.25	1		08/25/11 17:14		
300.0 IC Anions	Analytica	Method: EPA	300.0						
Nitrate as N	0.77	mg/L	0.10	0.050	2		08/24/11 02:05	14797-55-8	
351.2 Total Kjeldahl Nitrogen	Analytica	I Method: EPA	351.2 Prepar	ration Meth	nod: EF	A 351.2			
Nitrogen, Kjeldahl, Total	7.1	mg/L	0.50	0.25	1	08/25/11 07:40	08/25/11 14:42	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytica	il Method: EPA	353.2						
Nitrogen, NO2 plus NO3	0.032	mg/L	0.050	0.025	1		08/25/11 11:09		
365.4 Phosphorus, Total	Analytica	Method: EPA	365.4 Prepa	ration Meth	nod: EF	A 365.4			
Phosphorus, Total (as P)	3.9	ma/L	0.10	0.050	1	08/25/11 07:40	08/25/11 14:42	7723-14-0	

Date: 09/01/2011 01:20 PM

# **REPORT OF LABORATORY ANALYSIS**

Page 5 of 15



## ANALYTICAL RESULTS

PTOJECC	Sun Lakes Est	ates								
Pace Project No.:	3536291									
Sample: Infl		Lab ID:	3536291002	Collected	d: 08/23/11	11:00	Received: 08/	23/11 15:52 Ma	atrix: Water	
Parame	eters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspe	nded Solids	Analytica	I Method: SM 2	540D						
Total Suspended So	olids	<b>63.0</b> (	mg/L	10.0	10.0	1		08/24/11 11:00		
5210B cBOD, 5 day	у	Analytica	I Method: SM 5	210B Prepa	aration Meth	od: SM	5210B			
Carbonaceous BOD	D, 5 day	147	mg/L	2.0	2.0	1	08/24/11 07:35	08/29/11 12:45		

Date: 09/01/2011 01:20 PM

**REPORT OF LABORATORY ANALYSIS** 

Page 6 of 15

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

 ${\mathbb C}^{(n)}$ 

PARM Code 80082 Y

PARM Code 80082 A

Solids, Total Suspended

PARM Code 00530 Y

Mon. Site No. EFA-1

Mon. Site No. EFA-1

BOD, Carbonaceous 5 day, 20C

Mon. Site No. EFA-1

4.5

PERMITTEE NAME: Sun Lakes Homeowners Association MAILING ADDRESS: 5600 US Hwy 1 N			PERMIT NU	JMBER:	FLA010353-003-DW2P		xpiratio	on Date:	October 27, 2015	
Sharps, Florida 32927         FACILITY:       Sun Lakes Estates WWTF         LOCATION:       616 Emerald Lake Drive         Coccoe, FL 32926-4648				3: NG GROUP NUMBER: NG GROUP DESCRIPTION: TED DMR:	Final     REPORT FREQUENCY:     Monthly       N/A     PROGRAM:     Domestic       R-001     Rapid Infiltration Basin (RIB), including Influent					
COUNTY: OFFICE:	Brevard Central District		MONITORI	NG PERIOD From:	09-01-1	<u>То:</u>	09-	3011		
Parameter		Quantity or Loading	Units	Quality or Conce	entration	Units	No. Ex.	Frequency of Analysis	Sample Type	
Flow(To RIBs)	Sample Measurement	.026	Rod			1	d	Contin	El STAT	
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement	0.135 (An.Avg.)	MOD			+	10	Continuous	Flow Totalizer	
Flow(Total Through Plant)	Sample Measurement	.026	Mad				Ø	Continuas	Plow Totato	
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement	0.135 (An.Avg.)	MOD				q	Continuous	Flow Totalizer	
Flow(To RIBs)	Sample Measurement	1023	Mad				0	Continuous	Flow Totalizer	
PARM Code 50050 Q Mon. Site No. FLW-1	Permit Requirement	Report (Mo.Avg.)	MOD				0	Continuous	Flow Totalizer	
BOD, Carbonaceous 5 day, 20	C Sample Measurement			4.34		Mal	0	Birmontoby	8-h. FPC	

20.0

(An.Avg.)

2.42

45.0

(Wk.Avg.)

7.64

20.0

(An.Avg.)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jerry Padrick operator	324-639-12	310/26/2011

5.0

60.0

(Max.)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here);

Permit

Sample

Permit

Sample

Permit

Requirement

Measurement

Requirement

Measurement

Requirement

mg/L

Myc

me/L

Mg L

mg/L

4.85

30.0

(Mo.Avg.)

Bi-monthly!

every 2 months

Bi-monthly;

every 2 months

Bi-monthly;

every 2 months

month

nr.

8-hr FPC

8-hr FPC

8-hr FPC

FACILITY:

-

••

Sun Lakes Estates WWTF

MONITORING GROUP NUMBER: MONITORING PERIOD

D From: 09-01-11 To: 09-30-11

R-001

PERMIT NUMBER: FLA010353-003-DW2P

Parameter		Quantity	or Loading	Units		Quality or Concentration	2n	Units	No. Ex	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement				5.5	2.62	5.25	MyL	q	Bi-monthly	8-hr FFC
PARM Code 00530 A	Permit			1	60.0	45.0	30.0	mg/L	1	Bi-monthly;	8-hr FPC
Mon. Site No. EFA-1	Requirement				(Max.)	(Wk.Avg.)	(Mo.Avg.)		9	every 2 months	
Coliform, Fecal	Sample Measurement					10		Hall	1	Binnette	Grub
PARM Code 74055 Y	Permit		-			200		#/100ml	<u> </u>	Ri-mosthly:	Gmb
Mon. Site No. EFA-1	Requirement		Į			(An Ave)			d	every 2 months	UI40
Coliform, Fecal	Sample			1			1	Hins Mi	1	Lunk	Buch
DADA CONTRACTOR	Measurement			<b>J</b>		1.0	<u> </u>	1/40/0	14	LAPENT BY	C7145
Mon. Site No. EFA-1	Remitement		1			Report	800 (Marri)	#/100mL	A	Bi-monthly,	Grab
рН	Sample						(IVHA.)		<u>بر کا</u>	every 2 divides	
· <b>· · · · ·</b>	Measurement		<u> </u>		7.1		7.2	5 U.	9	5 Days/week	Gib
PARM Code 00400 A	Permit		1	1	6.0		8.5	s.u.		5 Days/Week	Grab
Mon. Site No. EFA-1	Requirement				(Min.)		(Max.)		V.	r	
Chlorine, Total Residual(For	Sample							In l.		5n Jal	111
Disinfection)	Measurement				• 5			190	V.	P Lips Jucch	Grap
PARM Code 50060 A	Permit				0.5			mg/L	d	5 Days/Week	Grab
Mon. Site No. EFA-1	Requirement				(Min.)				<u> </u>		
Nitrogen, Nitrate, Total (as N)	Sample Measurement						6.01	Myl	q	Bemonthel	8-hi FPC
PARM Code 00620 A	Permit					1	12,0	mg/L	0	Bi-monthly;	8-hr FPC
Mon. Site No. EFA-1	Requirement						(Max.)		¥.	every 2 months	1
Nitrogen, Total	Sample						> >	ha 1	đ	B' mull	al For
	Ivicasurement				······································		<u></u>	140	Υ	1-rown	8 Mill
Mon. Site No. EFA-1	Reminement			4			Report	100g/L	0	Bi-monthly	8-br FPC
Phosphorus, Total (as P)	Sample		<b></b>				(WIRK.)	l	1	every 2 monuns	
and and a set (usi)	Measurement						4.4	Mal	0	Pri-months	S-hr FR
PARM Code 00665 A	Permit			1			Report	mg/L	a	Bi-monthly, 7	8-hr FPC
Mon. Site No. EFA-1	Requirement						(Max.)		9	every 2 months	
Flow(Total Through Plant)	Sample	-		1 /				1	N	$n_{1}$	111
	Measurement	1023	.021	Mad					9	1 mtiouss	Mow Str
PARM Code 50050 R	Permit	Report	Report	MOD					1	<ul> <li>Continuous</li> </ul>	Flow Totalizer
Mon. Site No. FLW-1	Requirement	(Mo.Avg.)	(QtAvg.)	1					9	4	
ercent Capacity, (TMADF/	Sample							1 91	1	1.111.	171.11.1
ermitted Capacity) x 100	Measurement						1015	13.510	Y	1/onthin	LUCEBTA
ARM Code 00180 P	Permit						Report	percent	C	Monthly	Calculated
Mon. Site No. CAL-1	Requirement						(Mo.Avg.)		×		

FACILITY: Sun Lakes Estates WWIF

٠

ŝ

4.

MONITORING GROUP NUMBER: MONITORING PERIOD

R-001 PERMIT NUMBER: FI From: <u>09-01-11</u> To: <u>09-30-11</u>

PERMIT NUMBER: FLA010353-003-DW2P

Parameter		Quanti	ly or Loading	Units		Quality or Concentration	ation	Units	No.	Frequency of	Sample Type
OD, Carbonaceous 5 day, OC(Influent)	Sample Measurement						228	Mal	$\vec{\sigma}$	Analysis Bi- Jama III.	O) FOR
ARM Code 80082 Q fon. Site No. INF-1	Permit Requirement	1		1			Report	ung/L	X	Bi-monthly;	8-hr FPC
olids, Total Suspended(Influent)	Sample	1		-			(Max.)	10	10	every 2 months	ALEN
ARM Code 00530 Q	Permit	1					Report	mer	<u> ¢_</u>	Bi-monthly;	8-hr FPC
	Kegunenen	<u> </u>			+	-	(Max.)		<u> </u>	every 2 months	
	<u> </u>	1		-				<u> </u>	Ļ		
	1	<u> </u>			+		+		ļ		
			+	-				<b>_</b>	 		
								<u></u>			
				<u> </u>							
		·····									
× ·							1				A
							1				
				1			· · · · ·				
				1							
				1							

1	POD	Chloring	California								
	SOD, Carbonaceous 5 day, 20C mg/L	Chiorme, Total Residual (For Disinfection) mg/L	Fecal #/100mL	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/L	pH s.u.	Flow (To RIBs) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Tota Suspended (Influent) mg/L
Code (cm. Site	80082	50060	74055	00620	00600	00665	00530	00400	50050	80082	00530
1	EFA-1	CFA-1	EFA-I	EFA-I	EFA-I	EFA-1	EFA-1	EFA-1	FLW-I	INF-1	INF-1
2		510						7:00	1020		
3		1.0		<u> </u>		1		1	10 -1		
4		2.1		+				7.2	122		
5									16 100		
6		20						-7. 7	Moncey		
7		1.4		<u> </u>				7.2	NOT		
8	4.7	1.3	10	in X	A. 12	28	SC	7.2	1010	175	19 C
9		1.2	<u> </u>	14.0	0.19	2/	2.3	7.2	1027	112	12-3
10		1.2						7,2	DVI		
11		<u> </u>		11		1			$\mathcal{U}\mathcal{U}$		
12		1.0		† <b>†</b>		1		72	833		
13		2.1						7.2	1075		
14		21						7.2	122		
15		2.1				1		7.2	006		
16		2,1				1		7.2	.023		
17		2.1		<b> </b>				7,2	026		
18									· Care		
19		2.0		1 1				7,2	,023		
20		2,0						7.2	1009		
21		210						7.2	.174		<u></u>
22		2.0						7.2	DIG		
23		20						7.2	,023		· · · · · · · · · · · · · · · · · · ·
24		2,0		1		1		7.2	D19		
25											-
26		15					E A	7,2	.032		
27	5.0	1.0	1.0	1.3	2.3	4.4	700	7.2	1019	328	100
28		1.5						7.1	,018		
29		1.9						7.1	1026		
30		1.6						7,2	.018		
31											
Total	9.7		2.0	12.1	1.43	8.3	10.5		\$564	50.3	112.5
Ao. Avg.	4.85		1.0	6.01	62.1	4.15	5.25		1023	251.5	56.2

**DAILY SAMPLE RESULTS - PART B** 

**Evening Shift Operator** Night Shift Operator Lead Operator

Class: Certificate No: Class: Certificate No: Certificate No: Class:

Name: Name: 7051 Name:

erry adric



# ANALYTICAL RESULTS

#### Project: Sun Lakes Estates

Pace Project No.: 3539247

Sample: Eff	Lab ID: 3539247001	Collected:	09/27/11	10:45	Received: 09/	27/11 14:35 Ma	atrix: Water	
Parameters	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytical Method: SM §	222D Prepar	ation Meth	nod: SM	1 9222D			
Fecal Coliforms	1.0U CFU/100 mL	1.0	1.0	1	09/27/11 16:45	09/28/11 15:00		
2540D Total Suspended Solids	Analytical Method: SM 2	2540D						
Total Suspended Solids	100 mg/L	40.0	40.0	1		10/04/11 11:00		
5210B cBOD, 5 day	Analytical Method: SM 5	5210B Prepara	ation Meth	nod: SM	I 5210B			
Carbonaceous BOD, 5 day	5.0 mg/L	2.0	2.0	1	09/28/11 08:15	10/03/11 16:38		
Total Nitrogen Calculation	Analytical Method: TKN	+NOx Calculat	lion					
Total Nitrogen	2.3 mg/L	0.50	0.25	1		<b>10/04/1</b> 1 17:16		
351.2 Total Kjeldahl Nitrogen	Analytical Method: EPA	351.2 Prepara	ation Meth	nod: EP/	A 351.2			
Nitrogen, Kjeldahl, Total	1.1 mg/L	0.50	0.25	1	09/28/11 09:30	09/29/11 12:00	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA	353.2						
Nitrogen, NO2 plus NO3	1.3 mg/L	0.050	0.025	1		10/04/11 09:35		
365.4 Phosphorus, Total	Analytical Method: EPA	365.4 Prepar	ation Meth	nod: EP	A 365.4			
Phosphorus, Total (as P)	<b>4.4</b> ma/L	0.10	0.050	1	09/28/11 09:30	09/29/11 12:00	7723-14-0	

Date: 10/05/2011 10:32 AM

## **REPORT OF LABORATORY ANALYSIS**

Page 5 of 15



٨

## ANALYTICAL RESULTS

Project: Sun Lakes Estates

Pace Project No.: 3539247

Sample: Inft	Lab ID:	3539247002	Collected: 09/27/11 10:45			Received: 09	atrix: Water	c Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical	Method: SM 2	540D						
Total Suspended Solids	5.0U r	ng/L	5.0	5.0	1		09/29/11 10:30		
5210B cBOD, 5 day	Analytical	Method: SM 5	210B Prepa	aration Meth	nod: SM	5210B			
Carbonaceous BOD, 5 day	328 r	ng/L	2.0	2.0	1	09/28/11 08:15	10/03/11 16:40		

Date: 10/05/2011 10:32 AM

#### **REPORT OF LABORATORY ANALYSIS**

Page 6 of 15



• •

#### **ANALYTICAL RESULTS**

#### Project: Sun Lakes Estates

Pace Project No.: 3537607

Sample: Eff	Lab ID:	3537607001	Collected:	09/08/1	1 11:40	Received: 09/	08/11 15:48 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytical	Method: SM 9	222D Prepar	ation Met	nod: SM	9222D			
Fecal Coliforms	1.0U C	FU/100 mL	1.0	1.0	1	09/08/11 16:15	09/09/11 14:40		
2540D Total Suspended Solids	Analytical	Method: SM 2	2540D						
Total Suspended Solids	5.5 m	ng/L	5.0	5.0	1		09/09/11 11:00		
5210B cBOD, 5 day	Analytical	Method: SM 5	210B Prepara	ation Meth	nod: SM	5210B			
Carbonaceous BOD, 5 day	<b>4.7</b> m	ng/L	2.0	2.0	1	09/09/11 08:15	09/14/11 09:45		
Total Nitrogen Calculation	Analytical	Method: TKN	+NOx Calculat	ion					
Total Nitrogen	10.8 m	ng/L	0.50	0.25	1		09/16/11 08:57		
300.0 IC Anions	Analytical	Method: EPA	300.0						
Nitrate as N	0.58 m	ng/L	0.10	0.050	2		09/09/11 14:28	14797-55-8	
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA	351.2 Prepara	ation Meth	nod: EP/	A 351.2			
Nitrogen, Kjeldahl, Total	10.6 m	ng/L	0.50	0.25	1	09/12/11 11:55	09/15/11 09:53	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA	353.2						
Nitrogen, NO2 plus NO3	0.13 m	ng/L	0.050	0.025	1		09/13/11 13:12		
365.4 Phosphorus, Total	Analytical	Method: EPA	365.4 Prepara	ation Meth	nod: EP/	A 365.4			
Phosphorus, Total (as P)	3.9 m	ng/L	0.10	0.050	1	09/12/11 11:55	09/15/11 09:53	7723-14-0	

Date: 09/19/2011 12:56 PM

## **REPORT OF LABORATORY ANALYSIS**

Page 5 of 15



•

.

.

### ANALYTICAL RESULTS

Project: Sun Lakes Estates

Pace Project No.: 3537607

Sample: Infl	Lab ID:	3537607002	Collected: 09/08/11 11:40			Received: 09	trix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical	Method: SM 2	540D						
Total Suspended Solids	<b>12.5</b> r	ng/L	5.0	5.0	1		09/09/11 11:00		
5210B cBOD, 5 day	Analytical	Method: SM 5	210B Prepa	ration Meth	od: SM	5210B			
Carbonaceous BOD, 5 day	175 r	ng/L	2.0	2.0	1	09/09/11 08:15	09/14/11 09:48		

Date: 09/19/2011 12:56 PM

## **REPORT OF LABORATORY ANALYSIS**

Page 6 of 15

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

# When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

4

c,

PERMITTEE NAME:	Sun Lakes Homeowners Association	PERMIT NUMBER:	FLA010353-003-DW2P	Expiration Date:	October 27, 2015
MAILING ADDRESS:	5600 US Hwy 1 N Sharps, Florida 32927	LIMIT: CLASS SIZE:	Final N/A	REPORT FREQUENCY: PROGRAM:	Monthly Domestic
FACILITY: LOCATION:	Sun Lakes Estates WWTF 616 Emeraid Lake Drive Cocoa, FL 32926-4648	MONITORING GROUP NUMBER: MONITORING GROUP DESCRIPTION: RE-SUBMITTED DMR:	R-001 Rapid Infiltration Basin (RIB),	including Influent	
COUNTY: OFFICE:	Brevard Central District	MONITORING PERIOD From:	10-01-11 To:	10 7 11	

Parameter		Quantity or Loading	Units	Quality or Concentration			Units	No. Ex.	Analysis	Sampae Type
Flow(To RIBs)	Sample	.026	MyD	·····				Ø	Continuas	Ploutetaliz
PARM Code 50050 Y	Permit	0.135	MOD					d	Continuous	Flow Totalizer
Mon. Site No. FLW-1	Requirement	(An.Avg.)						<u>ال</u> د	L	2-20
Flow(Total Through Plant)	Sample	176	Mad					Ø	Continuous	For Totalizor
PARM Code 50050 1	Permit	0.135	MGD					d	Continuous	Flow Totalizer
Mon. Site No. FLW-1	Requirement	(An.Avg.)						<u> у</u>	<u> </u>	
Flow(To RIBs)	Sample	.015	MAD					0	Continuous	FlowTobliz
PARM Code 50050 Q	Permit	Report (Mo Ava)	MGD					d	Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample	(MO.AVE.)	╂╼╾╌╊		1/ 22		mal	d	Bimontha	8-br FPC
	Measurement				9.22	L	110-	17.		01-100
PARM Code 80082 Y	Permit				20.0		£8¢/L	d	every 2 months	8-DI FFC
Mon. Site No. EFA-1	Requirement		╉╼╾╌╌╋		(ALLAVE.)	<u> </u>		1 7		al Con
BOD, Carbonaceous 5 day, 20C	Sample			3.0	1.4	2.8	myl	9	Bernorth	8-41PH
PARM Code 80082 A	Permit		11	60.0	45.0	30.0	mg/L	0	Bi-monthly,	8-hr FPC
Mon. Site No. EFA-1	Requirement			(Max.)	(WK.AVg.)	(MO.AVg.)		μ <i>Ζ</i> ,	every 2 monates	7
Solids, Total Suspended	Sample				7.43		Mgh	Ø	Biwouth	8-hi FtC
PARM Code 00530 Y	Permit			·····	20.0		mg/L	0	Bi-monthly;	8-br FPC
Mon. Site No. EFA-1	Requirement				(An.Avg.)			17	I overy 2 House	<u> </u>

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPAL TRECUTIVE OFFICER OR AUTHORIZED AGENT TELEPHONE NO DATE (mm/dd/yyyy) NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 28/2011 Operator AU

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

1. 7.

FACILITY: Sun Lakes Estates WWIF

,

MONITORING GROUP NUMBER:

R-001

PERMIT NUMBER: FLA010353-003-DW2P

NUMBER: MONITORING PERIOD From: 12-1-11 To: 10-31-11

Parameter		Quantity	or Loading	Units	1	Quality or Concentration	00	Units	No. Ex	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement				5.0	2.5	5.0	Myc	q	Bi-months	8-hr FPC
PARM Code 00530 A Mon. Site No. EFA-1	Permit Requirement				60.0 (Max.)	45.0 (Wk.Ave.)	30.0 (Mo.Avz.)	reg/L	Ø	Bi-monthly; P	8-hr FPC
Coliform, Fecal	Sample Measurement					1.0		HIDD AL	10	Bi-months	Grab
PARM Code 74055 Y Mon. Site No. EFA-1	Permit Requirement					200 (An Ave)		#/100ml	17	Bi-monthly,	Grab
Coliform, Fecal	Sample					1.5	1.5	Han L	19	Rimonth	Grab
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement					Report (Mo.Geo.Ma.)	800 (Max.)	#/100ml.	19	Bi-monthly every 2 months	Grat
pH	Semple Measurement			· ·	7.1		7.2	5.4.	1	5 Days Lien	Grub
PARM Code 00400 A Mon. Site No. EFA-1	Permit Requirement			11	6.0 (Min.)	1	8.5 (Max.)	s.ų.	1	5 Days Week	Grab
Chlorine, Total Residual(For Disinfection)	Sample Measurement				.8			Myl	Ø	5 Daylork	Greb
PARM Code 50060 A Mon. Site No. EFA-1	Pennit Requirement				0.5 (Min.)			mg/L	9	5 Davya/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement					0,412	2.45	marc	d	Bi-monthly	g-hr FPC
PARM Code 00620 A Mon. Site No. EFA-1	Permit Requirement						12.0 (Max.)	Ang/L	Ø	Bi-monthly; every 2 months	8-hr FPC
Nitrogen, Total	Sample Measurement						2.65	mel	1	Bi-monthly	g-hr FPC
PARM Code 00600 A Mon. Site No. EFA-1	Permit Requirement						Report (Max.)	Aller I.	q	Bi-monthly, every 2 months	8-hr FPC
Phosphorus, lotal (as P)	Sample Measurement					7.1	5.7	mil	¢	Bi-mon Hity	8hr FPC
Mon. Site No. EFA-1	Permit Requirement						Report (Max.)	fng/L.	q	Bi-monthly; every 2 months	8-hr FPC
PARA Code (1000 Plant)	Sample Mossurement	.025	.024	MyD					1	Continuous	Flow Totaliza
Mon. Site No. FLW-1	Requirement	(Mo.Avg.)	Report (Qt.Avg.)	MGD	·····				1	Continuous	Flow Totalizer
Permitted Capacity) x 100	Sampie Measurement						. 025	18 70	9	Monthly	Calculated
Mon. Sits No. CAL-1	Requirement						Report (Mo.Avg.)	percent	q	Monthly	Calculated

FACILITY: Sun Lakes Estates WWTF

MONITORING GROUPR-001PERMIT NUMBER: FINUMBER:<br/>MONITORING PERIODFrom:10 - 01 - 11To:10 - 31 - 11

PERMIT NUMBER: FLA010353-003-DW2P

Parameter		Quantity	or Loading	Units	Q	uality or Concentrat	ion	Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, OC(Influent)	Sample Measurement						289	Myl	1	Binonthy	8-hi FPC
ARM Code 80082 Q fon. Site No. INF-1	Permit Requirement						Report (Max.)	<b>61</b> g/1.	0	Bi-monthly; every 2 months	8-hr FPC
olids, Total Suspended(Influent)	Sample Measurement					468	768	nge	¢	Bimonthy	8-hrFPC
ARM Code 00530 Q Ion. Site No. INF-1	Permit Requirement						Report (Max.)	Ung/L		Bi-monthly; every 2 months	8-hr FPC

#### **DAILY SAMPLE RESULTS - PART B** Sun Lakes Estates WWTF Facility: 10-31-11

To:

Permit Number:
Monitoring Period

FLA010353-003-DW2P

From: 10-01-

Solids, Total pH Flow (To BOD. Solids, Total Coliform, Nitrogen, Nitrogen, Phosphorus, BOD, Chlorine, Suspended Carbonaceous RIBs) Total Fecal Nitrate, Total Total Total (as P) Suspended s.u. anhonaceou (as N) mg/L MGD 5 day, 20C (influent) Residual #/100mL mg/L mg/L 5 day, 20C (infinent) mg/L mg/L (For mg/L Disinfection) mg/L mg/L 00620 50050 00530 00665 00530 00400 80082 Code 80082 50060 74055 00600 EFA-1 FLW-1 INF-1 INF-1 EFA-1 EFA-1 EFA-1 EFA-1 EFA-1 Mon. Site EFA-1 EFA-1 フィン ,024 Ŧ 118 2 3 1,8 てン 1020 4 020 12 1.8 5 7.2 0.025 019 1.4 468 7.2 6 2 0 1.8 7.0 3.3 4.3 5.0 015 20/ 33 7 7,2 020 1-8 8 -< 7. 026 ġ ,038 10 1,0 7.0 11 024 . 1 7, 12 , 8 7,2 028 13 7.2 .0 015 12 14 1.0 026 15 16 17 .031 1.2 7.2 18 7.2 1024 O 19 023 7.2 Ð 20 アン 1022 1.0 21 72 019 0 22 014 1 0 23 24 ,025 てン 1.5 25 016 2.1 2 2 26 2 .017 2,1 7 444 27 0.80 2.0 71 5.0 2 054 289 L 3 2 1.0 28 7.1 2. 016 0 29 021 7. 2 1.0 30 31 1018 1.5 フィン 625 490 912 Total 3.6 0.825 5.3 11.4 5 . 6 10.0 ,025 Mo. Avg. 456 5. 245 Ĺς 442 2.65 7 5.0 Č, Δ ٦.,

PLANT STAFFING: Day Shift Operator **Evening Shift Operator** Night Shift Operator Lead Operator

Certificate No:

Certificate No:

Certificate No:

Certificate No:

7051 Name:

Name:

Name:

Name

er adrick r

Class.

Class:

Class

Class:

 $\mathcal{L}$ 



,

# ANALYTICAL RESULTS

Project: Sun Lakes Estates

Pace Project No.: 3541697

Sample: Effl	Lab ID:	3541697001	Collected:	10/27/11	10:30	Received: 10/	27/11 14:00 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytica	I Method: SM 9	222D Prepar	ation Meth	nod: SM	9222D			
Fecal Coliforms	1.0U (	CFU/100 mL	1.0	1.0	1	10/27/11 16:15	10/28/11 16:10		
2540D Total Suspended Solids	Analytica	I Method: SM 2	2540D						
Total Suspended Solids	5.0U	mg/L	5.0	5.0	1		10/31/11 11:00		
5210B cBOD, 5 day	Analytica	al Method: SM 5	5210B Prepar	ation Meth	nod: SM	5210B			
Carbonaceous BOD, 5 day	2.6	mg/L	2.0	2.0	1	10/28/11 07:45	11/02/11 09:38		
Total Nitrogen Calculation	Analytica	al Method: TKN	+NOx Calcula	tion					
Total Nitrogen	2.0	mg/L	0.50	0.25	1		11/02/11 13:15		
300.0 IC Anions	Analytica	al Method: EPA	300.0						
Nitrate as N	0.63	mg/L	0.050	0.025	1		10/27/11 21:58	14797-55-8	
351.2 Total Kjeldahl Nitrogen	Analytica	al Method: EPA	351.2 Prepar	ation Meth	nod: EP	A 351.2			
Nitrogen, Kjeldahl, Total	1.2	mg/L	0.50	0.086	1	10/28/11 09:10	11/01/11 14:21	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytica	al Method: EPA	353.2						
Nitrogen, NO2 plus NO3	0.80	mg/L	0.050	0.025	1		11/01/11 09:06		
365.4 Phosphorus, Total	Analytica	al Method: EPA	365.4 Prepar	ation Meth	nod: EP	A 365.4			
Phosphorus, Total (as P)	7.1	mg/L	0.10	0.050	1	10/28/11 09:10	11/01/11 14:21	7723-14-0	

Date: 11/03/2011 01:05 PM

# **REPORT OF LABORATORY ANALYSIS**

Page 5 of 15



#### ANALYTICAL RESULTS

Project: Sun Lakes Estates

Pace Project No.: 3541697

Sample: Infl	Lab ID: 3541697002		Collected: 10/27/11 10:30		Received: 10/27/11 14:00		Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	<b>444</b> n	ng/L	20.0	20.0	1		10/31/11 11:00		
5210B cBOD, 5 day	Analytical	Method: SM 52	210B Prepa	ration Meth	od: SM	5210B			
Carbonaceous BOD, 5 day	289 n	ng/L	2.0	2.0	1	10/28/11 07:45	11/02/11 09:39		

Date: 11/03/2011 01:05 PM

# **REPORT OF LABORATORY ANALYSIS**

Page 6 of 15



## ANALYTICAL RESULTS

#### Project: Sun Lakes Estates

Pace Project No.: 3540146

Sample: Effi	Lab ID:	3540146001	Collected:	10/06/11	11:00	Received: 10/	06/11 14:22 Ma	atrix: Water					
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual				
9222D Fecal Coliform	Analytical	Method: SM 9	222D Prepar	ation Meth	nod: SN	1 9222D							
Fecal Coliforms	2.0U C	FU/100 mL	2.0	2.0	2	10/06/11 16:26	10/07/11 16:27						
2540D Total Suspended Solids	Analytical	Method: SM 2	540D										
Total Suspended Solids	<b>5.0U</b> m	ıg/L	5.0	5.0	1		10/10/11 10:30						
5210B cBOD, 5 day	Analytical	Method: SM 5	210B Prepar	ation Meth	nod: SN	1 5210B							
Carbonaceous BOD, 5 day	3.0 m	ıg/L	2.0	2.0	1	10/07/11 08:15	10/12/11 12:18						
Total Nitrogen Calculation	Analytical	Analytical Method: TKN+NOx Calculation											
Total Nitrogen	3.3 m	ıg/L	0.50	0.25	1		10/14/11 13:39						
300.0 IC Anions	Analytical	Method: EPA	300.0										
Nitrate as N Nitrite as N Nitrogen, NO2 plus NO3	1.6 m 0.025U m 1.6 m	ng/L ng/L ng/L	0.050 0.050 0.050	0.025 0.025 0.025	1 1 1		10/07/11 00:42 10/07/11 00:42 10/07/11 00:42	14797-55-8 14797-65-0					
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA	351.2 Prepar	ation Meth	nod: EP	PA 351.2							
Nitrogen, Kjeldahl, Total	<b>1.1</b> m	ng/L	0.50	0.086	1	10/10/11 09:00	10/11/11 15:29	7727-37-9					
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA	353.2										
Nitrogen, NO2 plus NO3	<b>2.2</b> m	ng/L	0.050	0.025	1		10/11/11 09:35						
365.4 Phosphorus, Total	Analytical	Method: EPA	365.4 Prepar	ation Met	hod: EP	PA 365.4							
Phosphorus, Total (as P)	<b>4.3</b> m	ng/L	0.10	0.050	1	10/10/11 09:00	10/11/11 15:29	7723-14-0					

Date: 10/18/2011 07:32 PM

# REPORT OF LABORATORY ANALYSIS

Page 5 of 15



.

### ANALYTICAL RESULTS

Project: Sun Lakes Estates

Pace Project No.: 3540146

Sample: Infl	Lab ID: 3540146002		Collected: 10/06/11 11:00			Received: 10/06/11 14:22 Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
2540D Total Suspended Solids	Analytical Method: SM 2540D									
Total Suspended Solids	468 n	ng/L	40.0	40.0	1		10/10/11 10:30			
5210B cBOD, 5 day	Analytical	Method: SM 5	210B Prepa	ration Meth	nod: SM	5210B				
Carbonaceous BOD, 5 day	<b>201</b> r	ng/L	2.0	2.0	1	10/07/11 08:15	10/12/11 12:20			

Date: 10/18/2011 07:32 PM

#### **REPORT OF LABORATORY ANALYSIS**

Page 6 of 15

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

### When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: MAILING ADDRESS:	Sun Lakes Homeowners Association 5600 US Hwy 1 N	PERMIT NUMBER:	FLA010353-003-DW2P	Expiration Date:	October 27, 2015
	Sharps, Florida 32927	LIMIT:	Final	REPORT FREQUENCY:	Monthly
		CLASS SIZE:	N/A	PROGRAM:	Domestic
FACILITY:	Sun Lakes Estates WWTF	MONITORING GROUP NUMBER:	R-001		
LOCATION:	616 Emerald Lake Drive	MONITORING GROUP DESCRIPTION:	Rapid Infiltration Basin (RIB),	including Influent	
	Cocoa, FL 32926-4648	RE-SUBMITTED DMR:		-	
OOTBETK	D	NO DISCHARGE FROM SITE:	11-11-11	11-30-11	
COUNTY:	Brevard	MONITORING PERIOD From:	77 07 11 To:	11-20-11	
OFFICE:	Central District		· · · · ·		

Parameter		Quantity or Loading	Units	Quality or Concentration				No. Ex.	Frequency of Analysis	Sample Type
Flow(To RIBs)	Sample Measurement	:025	MgD				1	9	Continuos	F=kon Totalo
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement	0.135 (An.Avg.)	MGD					1	Continuous	Flow Totalizer
Flow(Total Through Plant)	Semple Measurement	,025	MyD				T	1	Continnous	Partotelizo
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement	0.135 (An.Avg.)	MGD					1	Continuous	Flow Totalizer
Flow(To RIBs)	Sample Measurement	.014	MyD					1	Continuous	Flaitokia
PARM Code 50050 Q Mon. Site No. FLW-1	Permit Requirement	Report (Mo.Avg.)	MGD	·				1	Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement				3.4.09		Myl	1	Bi-monthly	Shi FPC
PARM Code 80082 Y Mon. Site No. EFA-1	Permit Requirement				20.0 (An.Avg.)	<u></u>	mg/L.	9	Bi-monthly, every 2 months	8-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement			3.1	1.225	2.55	Mal	1	Bi-monthly	8-hr FPC
PARM Code 80082 A Mon. Site No. EFA-1	Permit Requirement			60.0 (Max.)	45.0 (Wk.Avg.)	30.0 (Mo.Avg.)	mg/l.	9	Bi-monthly; every 2 months	8-hr FPC
Solids, Total Suspended	Sample Measurement				7.24		mal	Ţ	Bimonthy	ghrFPC
PARM Code 00530 Y Mon. Site No. EFA-1	Permit Requirement				20.0 (Ani.Avg.)		mg/L	ļ	Bi-monthly; every 2 months	8-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT UTIVE OFFICER OR AUTHORIZED AGENT SIGNATURE OF PRINCIPAL TELEPHONE NO DATE (mm/dd/yyyy) erry Operator

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Flows may be low due to trogs inside of meter on Tetalizen Will CALL for Recall. I Seal.

FACILITY: Sun Lakes Estates WWIF

¢

٠

MONITORING GROUP

PERMIT NUMBER: FLA010353-003-DW2P

NUMBER:

R-001

NUMBER: MONITORING PERIOD From: 11-01-11 To: 11-30-11

Parameter		Quantity	or Loading	Units	Ċ	Quality or Concentrat	ion	Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement				5.0	1.25	5.0	inge	9	Bi-monthly	8-hr FPC
PARM Code 00530 A Mon. Site No. EFA-1	Permit Requirement				60.0 (Max.)	45.0 (Wk.Avg.)	30.0 (Mo.Avg.)	ifig/L	d	Bi-monthly, every 2 months	8-hr FPC
Coliform, Fecal	Sample Measurement					1.0		#TOUL	1	Bi-monthly	Grab
PARM Code 74055 Y Mon. Site No. BFA-1	Permit Requirement					200 (An.Avg.)		#/190mL	1	Bi-monthly, every 2 months	Grab
Coliform, Fecal	Sample Measurement					1.0	1.0	Hoomel	¢	Bimonthly	Grab
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement					Report (Mo.Geo.Mn.)	800 (Max.)	*#/100mL	¢	Bi-monthly, every 2 months	Grab
рН	Sample Measurement				7.0		7.1	5.4	Į	5 Days/werk	Grab
PARM Code 00400 A Mon. Site No. EFA-1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	\$.U.	1	5 Days/Week	Grab
Chlorine, Total Residual(For Disinfection)	Sample Measurement				.8			mgl	1	5 Days week	Grab
PARM Code 50060 A Mon. Site No. EFA-1	Permit Requirement				0.5 (Min.)			fng/L	¢	5 Deys/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement						0.30	high	1	Bi-month	8-hr FPC
PARM Code 00620 A Mon. Site No. EFA-1	Permit Requirement				· · · · · · · · · · · · · · · · · · ·		12.0 (Max.)	mg/L	1	Bi-monthly; every 2 months	8-hr FPC
Nitrogen, Total	Sample Measurement						2.7	myl	Í	Bi-month!	8hrFR
Mon. Site No. EFA-1	Requirement						Report (Max.)	Ang/L	ø	Bi-monthly; every 2 months	8-hr FPC
Phosphotus, local (as P)	Sample Measurement						56	mgl	9	Bi-monthly	8-hr FR
Mon. Site No. EFA-1	Requirement						(Max.)	ng/L	Ì	Bi-monthly;	8-hr FPC
Flow(Total Through Plant)	Sample Measurement	.014	,021	Mad					Ø	Continuas	Flastiteliza
PARM Code \$0050 R Mon. Site No. FLW-1	Permit Requirement	Report (Mo.Avg.)	Report (Qt.Avg.)	MGD					1	Continuous	Flow Totalizer
Percent Capacity, (TMADF/ Permitted Capacity) x 100	Sample Measurement						10/1	10 %	1	Monthly	Cakukte
PARM Code 00180 P Mon. Site No. CAL-1	Permit Requirement						Report (Mo.Avg.)	percent		Monthly	Calculated

R-001

FACILITY:

•

4

Sun Lakes Estates WWTF

MONIFORING GROUP NUMBER:

PERMIT NUMBER: FLA010353-003-DW2P

MONITORING GROUP R-001 PERMIT NUMBER: FL. NUMBER: MONITORING PERIOD From: 1/-01-1/1 To: 1/-30-1/1

Parameter		Quantity	or Loading	Units	(	Quality or Concentration		Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C(Influent)	Sample Measurement						193	Myl	¢	Bi-months	8-hr FPC
Mon. Site No. INF-1	Permit Requirement						Report (Max.)	mg/L	1	Bi-monthly,	8-hr FPC
Solids, Total Suspended(Influent)	Sample Measurement						118	mil	1	Ri-muchilly	Solar F.Pr.
PARM Code 00530 Q Mon. Site No. INF-1	Permit Requirement			1			Report	mg/L	† –	Bi-monthly	8-hr FPC
				1			(MEX.)	+	+	every 2 months	
									┼──		
			<u> </u>						<u> </u>		
								1			
				1				1			
				1							
:											· · · · · · · · · · · ·
	·							<b>_</b>			·····
								<u> </u>			
				]							
	·····										
	ł										

3

Permit 1 Monitor	Number: ring Period	FLA010353 From:	003-DW2P /	To:	11-3	0-11	Facility:	Sun Lakes Este	ttes WWTF		
	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/L	pH s.u.	Flow (To RIBs) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Total Suspended (Influent) mg/L
Code	80082	50060	74055	00620	00600	00665	00530	00400	50050	80082	00530
Mon. Site	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	EFA-1	FLW-1	INF-1	INF-1
2		115		<u> </u>		1		7.0	1018		
		1.3						7,0	10/1		
4		1.5						7,0	.012		
		1:0						1.0	1012		
6		·				<u> </u>					
0		1.5				ļ		7.0	.013		
		1.6						7.0	, 614		
8		1.6		ļ				7.1	1007		
9		1.6						7.1	1018		
10		1.6						7.1	1014		
11		1.8						1.1	1014		
12		1.5						7./	.014		
13											
14		1.0						7,0	1014		
15		18						7.0	.015		
16		2.0				1		7.0	,016	1	
17	3.1	2,0	1.0	012	1.6	5.6	5.0	7.0	1012	193	118
18	·····	1.2						7.1	1013		
19	· · · · · ·	2.0						7.0	.013		
20						1	†i			1	
21		15						-71	N3		
22		11						71	2/2		
23		15				+		10	$101 \sim$	<u> </u>	
24		1.1				+	<b>+</b>	Think	010	+	<u> </u>
25		12				+	<u> </u>	1 mes	10/2	<u> </u>	
26		10				+	1	7,	- 11		
27		1.0							1011		
28		1, 5						11	1010	<u> </u>	
29	1	170	7						all		
30	1.0	1.0	1.0	0.12	2.7	4.1	5.0	11	1017	111	118
31		12						7.0	,011		
Total				4 1 4							
Total	5		40	0.64	3.7	10.3	<u>jo.</u> e		1342	570	236
ww. Avg.	2.55		1.0	0.30	1.85	5.15	5.0	<u> </u>	1017	185	118
PLANT S	TAFFING: Operator	Class		Certificate Na	<b>)</b> :	1	Name:				
Evening 9	hift Operator	Class		- Cortificate NL		·	Mama			·	
Night Chi4		Class,		Certificate M	··	I	Name		<u></u>		
THRUL DHIL	- Janatra	Chass.			<i>.</i>		IVALIK.				

**DAILY SAMPLE RESULTS - PART B** 

ISSUANCE/REISSUANCE DATE: November 1, 2010

Lead Operator

Ċ

Class:

Certificate No:

adrick

Jerr

7051

Name:



# ANALYTICAL RESULTS

Project: Sun Lakes Estates

Pace Project No.: 3543438

Sample: Eff	Lab ID:	3543438001	Collected	l: 11/17/11	11:00	Received: 11/	17/11 14:16 Ma	atrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual			
9222D Fecal Coliform	Analytica	I Method: SM 9	222D Prepa	ration Met	hod: SN	1 9222D						
Fecal Coliforms	1.0U (	CFU/100 mL	1.0	1.0	1	11/17/11 15:55	11/18/11 14:00		Y			
2540D Total Suspended Solids	Analytica	i Method: SM 2	540D									
Total Suspended Solids	5.0U i	mg/L	5.0	5.0	1		11/18/11 11:00					
5210B cBOD, 5 day	Analytica	I Method: SM 5	210B Prepa	ration Met	hod: SN	1 5210B						
Carbonaceous BOD, 5 day	3.1	mg/L	2.0	2.0	1	11/18/11 09:00	11/23/11 09:55					
Total Nitrogen Calculation	Analytica	Analytical Method: TKN+NOx Calculation										
Total Nitrogen	1.0	mg/L	0.50	0.25	1		11/23/11 12:42					
300.0 IC Anions	Analytica	I Method: EPA	300.0									
Nitrate as N	0.31	mg/L	0.050	0.025	1		11/18/11 20:25	14797-55-8				
351.2 Total Kjeldahl Nitrogen	Analytica	I Method: EPA	351.2 Prepa	ration Met	hod: EF	A 351.2						
Nitrogen, Kjeldahl, Total	0.56	mg/L	0.50	0.086	1	11/22/11 09:45	11/23/11 06:39	7727-37-9				
353.2 Nitrogen, NO2/NO3 pres.	Analytica	ai Method: EPA	353.2									
Nitrogen, NO2 plus NO3	0.47	mg/L	0.050	0.025	1		11/21/11 11:36					
365.4 Phosphorus, Total	Analytica	al Method: EPA	365.4 Prepa	aration Met	hod: EF	PA 365.4						
Phosphorus, Total (as P)	5.6	mg/L	0.10	0.050	1	11/22/11 09:45	11/23/11 08:54	7723-14-0				

Date: 11/29/2011 11:27 AM

### **REPORT OF LABORATORY ANALYSIS**

Page 5 of 15



.

# ANALYTICAL RESULTS

Project: Sun Lakes Estates

Pace Project No.: 3543438

Sample: inf	Lab ID:	3543438002	Collected	11/17/11	11:00	Received: 11/	17/11 14:16 Ma	ıtrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical	Method: SM 2	540D						
Total Suspended Solids	118 mg/L		20.0	20.0	1		11/18/11 11:00		
5210B cBOD, 5 day	Analytical	Method: SM 5	210B Prepa	ration Meth	od: SM	5210B			
Carbonaceous BOD, 5 day	193 r	ng/L	2.0	2.0	1	11/18/11 09:00	11/23/11 09:56		

Date: 11/29/2011 11:27 AM

# **REPORT OF LABORATORY ANALYSIS**

Page 6 of 15



# **ANALYTICAL RESULTS**

Project: Eff Sun L Pace Project No.: 3544080	alc. Estates							
Sample: Effl	Lab ID: 3544080001	Collected	: 11/29/11	10:40	Received: 11/	29/11 16:03 M	atrix: Water	
Parameters	Results Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytical Method: SM	9222D Prepa	ration Meth	nod: SN	1 9222D			
Fecal Coliforms	1.0U CFU/100 mL	1.0	1.0	1	11/29/11 16:22	11/30/11 14:35		
2540D Total Suspended Solids	Analytical Method: SM	2540D						
Total Suspended Solids	5.0 mg/L	5.0	5.0	1		11/30/11 11:00		
5210B cBOD, 5 day	Analytical Method: SM	5210B Prepa	ration Meth	od: SN	1 5210B			
Carbonaceous BOD, 5 day	2.0U mg/L	2.0	2.0	1	11/30/11 07:10	12/05/11 13:03		
Total Nitrogen Calculation	Analytical Method: TKN	+NOx Calcula	ation					
Total Nitrogen	2.7 mg/L	0.50	0.25	1		12/05/11 15:11		
300.0 IC Anions	Analytical Method: EPA	300.0						
Nitrate as N	0.23 mg/L	0.050	0.025	1		11/30/11 12:39	14797-55-8	
351.2 Total Kjeldahl Nitrogen	Analytical Method: EP/	351.2 Prepa	ration Meth	od: EF	PA 351.2			
Nitrogen, Kjeldahl, Total	2.6 mg/L	0.50	0.086	1	12/01/11 09:30	12/05/11 10:11	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical Method: EPA	A 353.2						
Nitrogen, NO2 plus NO3	0.13 mg/L	0.050	0.025	1		12/01/11 12:36		
365.4 Phosphorus, Total	Analytical Method: EP/	A 365.4 Prepa	ration Meth	nod: EF	PA 365.4			
Phosphorus, Total (as P)	4.7 mg/L	0.10	0.050	1	12/01/11 09:30	12/05/11 10:11	7723-14-0	

Date: 12/06/2011 03:00 PM

## **REPORT OF LABORATORY ANALYSIS**

Page 5 of 15



•

# ANALYTICAL RESULTS

Project:	Eff Sunlake Estates
Pace Project No.:	3544080

Sample: Infl	Lab iD: 3544080002		Collected: 11/29/11 10:40			Received: 11/	29/11 16:03 Ma	Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
2540D Total Suspended Solids	Analytical	I Method: SM 2	540D							
Total Suspended Solids	118 r	mg/L	20.0	20.0	1		11/30/11 11:00			
5210B cBOD, 5 day	Analytica	Analytical Method: SM 5210B Preparation Method: SM 5210B								
Carbonaceous BOD, 5 day	177 r	mg/L	2.0	2.0	1	11/30/11 07:10	12/05/11 13:04			

Date: 12/06/2011 03:00 PM

### **REPORT OF LABORATORY ANALYSIS**

Page 6 of 15

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: MAILING ADDRESS:	Sun Lakes Homeowners Association 5600 US Hwy 1 N	PERMIT NUMBER:	FLA010353-003-DW2P	Expiration Date:	October 27, 2015
	Sharps, Florida 32927	LIMIT:	Final	REPORT FREQUENCY:	Monthly
		CLASS SIZE:	N/A	PROGRAM:	Domestic
FACILITY:	Sun Lakes Estates WWIF	MONITORING GROUP NUMBER:	R-001		
LOCATION:	616 Emerald Lake Drive	MONITORING GROUP DESCRIPTION:	Rapid Infiltration Basin (RIB),	including Influent	
	Cocoa, FL 32926-4648	RE-SUBMITTED DMR:			
COUNTY:	Brevard	NO DISCHARGE FROM SITE:	12-01-11 To:	12-31-11	

OFFICE: Central District

Parameter		Quantity or Loading	Units		Quality or Concentrat	ion	Units	No. Ex.	Frequency of Analysis	Sample Type
Flow(To RIBs)	Sample Measurement	:025	MyD					0	Continuous	Fla Totaliza
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement	0.135 (An.Avg.)	MGĐ					Ø	Continuous	Flow Totalizer
Flow(Total Through Plant)	Sample Measurement	.025	My D					1	Continuous	Flantoteliz
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement	0.135 (An.Avg.)	MGD					Ø	Continuous	Flow Totalizer
Flow(To RIBs)	Sample Measurement	+015	MyD					9	Continuous	FlowTotaliza
PARM Code 50050 Q Mon. Site No. FLW-1	Permit Requirement	Report (Mo.Avg.)	MGD					0	Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20C	Sample Measurement				4.10		Myl	9	Bi-Monthly	8-4r FPC
PARM Code 80082 Y Mon. Site No. EFA-1	Permit Requirement				20.0 (An.Avg.)		mg/L	9	Bi-monthly, every 2 months	8-hr FPC
BOD, Carbonaceous 5 day, 20C	Sample Measurement			6.5	2.12	4.25	Myl	9	By Marthy	8-hr FPC
PARM Code 80082 A Mon. Site No. EFA-1	Permit Requirement			60.0 (Max.)	45.0 (Wk.Avg.)	30.0 (Mo.Avg.)	mg/L	Ø	Bi-monthly, every 2 months	8-hr FPC
Solids, Total Suspended	Sample Measurement			<u></u>	7.06		Myl	1	Bi-Inorthy	8-hr FPC
PARM Code 00530 Y Mon. Site No. EFA-1	Permit Requirement				20.0 (An.Avg.)		mg/L	l	Bi-monthly; every 2 months	8-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT SIGNATURE OF PRINCIP. EXECUTIVE OFFICER OR AUTHORIZED AGENT TELEPHONE NO DATE (mm/dd/yyyy) GURICE 321-639-1273 rator

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Flow Meter Bod Replaced with Totalicens

FACILITY:

41

Sun Lakes Estates WWTF

MONITORING GROUP NUMBER: MONITORING PERIOD

 $\begin{array}{c} \text{R-001} \\ \text{From:} \quad \underline{12-01-11} \\ \text{To:} \quad \underline{12-31-11} \\ \text{To:} \quad \underline{12-31-11} \\ \end{array}$ 

R-001

PERMIT NUMBER: FLA010353-003-DW2P

Parameter		Quantity	or Loading	Units		Quality or Concentrat	ion	Units	Units No. Frequency of Ex. Analysis			
Solids, Total Suspended	Sample Measurement				50	2.5	50	Myc	¢	Bi-monthly	S-hr FPC	
PARM Code 00530 A	Permit		1		60.0	45.0	30.0	mg/L	1	Bi-monthly:	8-hr FPC	
Mon. Site No. EFA-1	Requirement				(Max.)	(Wk.Avg.)	(Mo.Avg.)		Q	every 2 months		
Coliform, Fecal	Sample						1	the M	1 d	Rimmell.1.	Geeb	
DADLE C. J. 24075	Measurement					1.0	· · · · · ·	10011	<u>17</u>	VI I CANNY		
PARM Code /4055 Y	Permit					200		#/100mil	6	Bi-monthly;	Grab	
MOR. SRE NO. EFA-I	Kequirement					(An.Avg.)	ļ.,		μ <u>γ</u>	every 2 months		
Conform, Fecai	Measurement		[			1.0	1.0	#/wm	Ø	Bi-most 66	Grab	
PARM Code 74055 A	Permit		<b></b>		<u> </u>	Report	800	#/100mL		Bi-monthiv	Grab	
Mon. Site No. EFA-1	Requirement			1		(Mo.Geo.Mn.)	(Max.)		10	every 2 months		
pH	Sample		<b>*</b>					1011				
	Measurement				7.2		7.2	2.0	Q.	5 Dars/wer	Grad	
PARM Code 00400 A	Permit			1	6.0		85	s.u.	17	5 Days/Week	Grab	
Mon. Site No. EFA-1	Requirement			1	(Min.)	1	(Max.)		19			
Chlorine, Total Residual(For	Sample					1		1.	1	60 / /	<i>c l</i>	
Disinfection)	Measurement				- حسى			Myc	19	Days/vek	Grub	
PARM Code 50060 A	Permit				0.5			mg/L		5 Davs/Week	Grab	
Mon. Site No. EFA-1	Requirement				(Min.)			-	9			
Nitrogen, Nitrate, Total (as N)	Sample						1 31	mili	q	Binantheles	g-hrFPC	
PARM Code 00620 A	Dormit	····			<u> </u>		120	1 100	1	Di monthlui	0 h- 1700	
Mon Site No FFA-1	Perminent						12.0	nug/1.	0	Bi-monuniye	8-01 FPC	
Nitrogen Total	Semple					+	(Max.)	1	<u> </u>	overy 2 months	A. 1000	
the Bord Town	Measurement						2.35	1340	9	B-monthly	8-hitte	
PARM Code 00600 A	Permit						Report	mg/L	N	Bi-monthly,	8-hr FPC	
Mon. Site No. EFA-1	Requirement						(Max.)		9	every 2 months		
Phosphorus, Total (as P)	Sample Measurement						4.9	mal	Ø	Bi nonthing	8-hIFPC	
PARM Code 00665 A	Permit				· · · · · · · · · · · · · · · · · · ·		Report	mg/L	1	Bi-monthin/	8-hr FPC	
Mon. Site No. EFA-1	Requirement			1 1			(Max.)		9	every 2 months		
Flow(Total Through Plant)	Sample			1 44 /	· · · · · · · · · · · · · · · · · · ·	1	<u> </u>	1	1	1 1	CI TIL	
	Measurement	.015	012	Mad					9	Continuous	Mow lottlize	
PARM Code 50050 R	Permit	Report	Report	MGD						Continuous	Flow Totalizer	
Mon. Site No. FLW-1	Requirement	(Mo.Avg.)	(Qt.Avg.)						9			
Percent Capacity, (TMADF/	Sample			T				09	N	Mili	A 1. 111	
Permitted Capacity) x 100	Measurement						+015	7 10	1	1 onthe	19104/1100	
PARM Code 00180 P	Permit						Report	percent		Monthly	Calculated	
Mon. Site No. CAL-1	Requirement						(Mo.Avg.)					

2

FACILITY:

....

Sun Lakes Estates WWIF

MONITORING GROUP

R-001 NUMBER: MONITORING PERIOD From: 12-01-11 To: 12-31-11

PERMIT NUMBER: FLA010353-003-DW2P

Parameter	]	Quantity	or Loading	Units	C C	Duality or Concentrat	tion	Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C(Influent)	Sample Measurement						Z03	Me	9	Bi-monthly	8-hr FPC
PARM Code 80082 Q Mon. Site No. INF-1	Permit Requirement						Report (Max.)	tog/L	9	Bi-monthly; every 2 months	8-hr FPC
Solids, Total Suspended(Influent)	Sample Measurement						190	mal	1	Bi-monthill	8-hr FAC
PARM Code 00530 Q Mon. Site No. INF-1	Permit Requirement						Report (Max.)	'ng/L		Bi-monthly every 2 months	8-hr FPC
				[							
								T			

<b>ISSUANCE/REISSUANCE I</b>	DATE: November 1, 2010

Class:

Class:

Class:

Λ

Certificate No:

Certificate No:

Certificate No:

Evening Shift Operator

Night Shift Operator

Lead Operator

# DAILY SAMPLE RESULTS - PART B

Facility: Sun Lakes Estates WWTF

To: 12-31-11

Permit Number: Monitoring Period FLA010353-003-DW2P

-01-

From:

	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/L	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/L	pH s.u.	Flow (To RIBs) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Total Suspended (Influent) mg/L
Code for Site	80082	50060	74055	00620	00600	00665	00530	00400	50050	80082	00530
VKAL SIDE	EFA-1		EFA-1	EFA-I	EFA-1	EFA-I	EFA-I	EFA-1	FLW-1	INF-1	INF-1
2		$\frac{10}{10}$						7 2	1015		
3		1.0						72	1010		
4		1.9				<u> </u>		7.2	013		
5		<i>L</i> ' <i>I</i>							<u> « V I / / / / / / / / / / / / / / / / / /</u>		
6		1.3						7,2	. 813	· · · · · · · · · · · · · · · · · · ·	
1		1.3						72	»14		
8	20	1.0	1.0	0.12	27	5.7	5.0	7.2	009	220	248
9		1.0	1.0		~			7.2	.018		/-
10		1.D						76	.014		
11	· · · · · · · · · · · · · · · · · · ·										
12		15						7.2	,008		
13		1.0				1		7.2	,016		1
14		1.0						7,2	1013		
15		1.9						7.2	014		1
16		1.5			· · · · · · · · · · · · · · · · · · ·	1		7,2	.015		
17		15		1				7.2	010	1	1
18				1		1			1010		†
19		1				1					
20		1.0						72	1017	1	
21		2.0						7.2	1013		1
22		20	[					72	,016		1
23	·	2.0		1		1		72	.013		
24		2.0				1	İ	7.2	,010		
25									1	1	1
26		15	1			1	1	7,2	1022		
27	[	1.0	1			1		7.2	.017		1
28		2.0			1		1	7.2	029		
29	6.5	2.0	1.0	0.29	2.0	4.1	5.0	7.2	.019	186	140
30		1.5						7,2	.015		
31		1.0						7.2	,017		
Total	8.5		2.0	0.42	4.7	9.8	10.0		1392	406	380
Mo. Avg.	4.15		1.0	0.21	235	4.9	5.0		,015	203	190

adric erry

7051

4

Name:

Name:

Name:

DEP Form 62-620.910(10), Effective Nov. 29, 1994



#### **ANALYTICAL RESULTS**

#### Project: Sun Lakes Estates

Pace Project No.: 3544960

Sample: Eff	Lab ID:	3544960001	Collected: 12/08/11 11:00		Received: 12/	atrix: Water	/ater		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytical	Method: SM 9	222D Prepar	ation Met	nod: SM	9222D			
Fecal Coliforms	1.0U C	FU/100 mL	1.0	1.0	1	12/08/11 16:22	12/09/11 14:55		
2540D Total Suspended Solids	Analytical	Method: SM 2	540D						
Total Suspended Solids	<b>5.0U</b> m	ng/L.	5.0	5.0	1		12/12/11 11:00		
5210B cBOD, 5 day	Analytical	Method: SM 5	210B Prepara	ation Meth	od: SM	5210B			
Carbonaceous BOD, 5 day	2.0U m	ıg/L	2.0	2.0	1	12/09/11 08:30	12/14/11 09:14		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calculat	ion					
Total Nitrogen	<b>2.7</b> m	ıg/L	0.50	0.25	1		12/14/11 14:50		
300.0 IC Anions	Analytical	Method: EPA 3	300.0						
Nitrate as N	0.13 m	ıg/L	0.050	0.025	1		12/09/11 09:53	14797-55-8	
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	351.2 Prepara	ation Meth	od: EP/	351.2			
Nitrogen, Kjeldahl, Total	<b>2.6</b> m	ıg/L	0.50	0.086	1	12/09/11 09:30	12/14/11 10:25	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	353.2						
Nitrogen, NO2 plus NO3	0.064 m	ıg/L	0.050	0.010	1		12/13/11 12:53		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	365.4 Prepara	ation Meth	od: EPA	365.4			
Phosphorus, Total (as P)	5.7 m	ig/L	0.10	0.050	1	12/09/11 09:30	12/14/11 10:25	7723-14-0	

Date: 12/16/2011 01:44 PM

#### **REPORT OF LABORATORY ANALYSIS**

Page 5 of 15



# **ANALYTICAL RESULTS**

Project: Sun Lakes Estates

Pace Project No.: 3544960

Sample: Infl	Lab ID: 3544960002		Collecte	Collected: 12/08/11 11:00			Received: 12/08/11 15:35 Matrix: Water				
Parameters	Results	Units		MDL	DF	Prepared	Analyzed	CAS No.	Qual		
2540D Total Suspended Solids	Analytical	Analytical Method: SM 2540D									
Total Suspended Solids	<b>240</b> r	ng/L	20.0	20.0	1		12/12/11 11:00				
5210B cBOD, 5 day	Analytical	Method: SM 52	210B Prepa	aration Meth	od: SM	5210B					
Carbonaceous BOD, 5 day	<b>220</b> r	ng/L	2.0	2.0	1	12/09/11 08:30	12/14/11 09:21				

Date: 12/16/2011 01:44 PM

### **REPORT OF LABORATORY ANALYSIS**

Page 6 of 15


.

#### ANALYTICAL RESULTS

Project: Sunlake Estates Pace Project No.: 3546441

Sample: Eff	Lab ID	: 3546441001	Collected	: 12/29/1	1 10:00	Received: 12/	/29/11 14:58 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytica	al Method: SM 9	222D Prepar	ation Met	hod: SM	1 9222D			
Fecal Coliforms	1.0U	CFU/100 mL	1.0	1.0	1	12/29/11 16:10	12/30/11 16:00		Y
2540D Total Suspended Solids	Analytica	al Method: SM 2	540D						
Total Suspended Solids	5.0U	mg/L	5.0	5.0	1		01/04/12 11:00		
5210B cBOD, 5 day	Analytica	al Method: SM 5	210B Prepar	ation Metl	nod: SM	15210B			
Carbonaceous BOD, 5 day	6.5	mg/L	2.0	2.0	1	12/30/11 08:00	01/04/12 09:05		
Total Nitrogen Calculation	Analytica	al Method: TKN+	NOx Calculat	tion					
Total Nitrogen	2.0	mg/L	0.50	0.25	1		01/04/12 12:03		
300.0 IC Anions	Analytica	I Method: EPA 3	300.0						
Nitrate as N	0.29	mg/L	0.10	0.050	2		12/30/11 11:31	14797-55-8	
351.2 Total Kjeldahl Nitrogen	Analytica	al Method: EPA 3	351.2 Prepara	ation Meth	nod: EP/	A 351.2			
Nitrogen, Kjeldahl, Total	1.8	mg/L	0.50	0.086	1	12/30/11 10:30	01/04/12 11:36	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytica	I Method: EPA 3	353.2						
Nitrogen, NO2 plus NO3	0.27	mg/L	0.050	0.010	1		01/03/12 12:40		
365.4 Phosphorus, Total	Analytica	I Method: EPA 3	65.4 Prepar	ation Meth	iod: EP/	A 365.4			
Phosphorus, Total (as P)	4.1	mg/L	0.10	0.050	1	12/30/11 10:30	01/04/12 11:36	7723-14-0	

Date: 01/05/2012 12:28 PM

#### **REPORT OF LABORATORY ANALYSIS**

Page 5 of 15

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



•

#### ANALYTICAL RESULTS

Project:	Sunlake Estates									
Pace Project No.:	3546441									
Sample: INFI		Lab ID	: 3546441002	Collecte	d: 12/29/11	10:00	Received: 12/	29/11 14:58 Ma	atrix: Water	
Param	eters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Susp	ended Solids	Analytica	al Method: SM 2	540D						
Total Suspended S	Solids	140	mg/L	20.0	20.0	1		01/04/12 11:00		
5210B cBOD, 5 da	ay	Analytica	al Method: SM 5	210B Prepa	aration Meth	od: SM	5210B			
Carbonaceous BO	D, 5 day	186	mg/L	2.0	2.0	1	12/30/11 08:00	01/04/12 09:06		

Date: 01/05/2012 12:28 PM

#### **REPORT OF LABORATORY ANALYSIS**

Page 6 of 15

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

4.

Mon. Site No. EFA-1

.

PERMITTEE NAME	Sun Lakes Homeowners	Association		PERMIT NUMBER:			FLA010353-003-DW2	P E	xpiratio	on Date:	October 27, 2015
FACILITY: LOCATION:	Sharps, Florida 32927 Sun Lakes Estates WWT 616 Emerald Lake Drive Cocoa, FL 32926-4648	IF .		LIMIT: CLASS SIZI MONITORI MONITORI RE-SUBMIT NO DISCH/	3: NG GROUP NUN NG GROUP DES ITED DMR: ARGE FROM SIT	ABER: CRIPTION:	Final N/A R-001 Rapid Infiltration Basin	R Pi 1 (RIB), incl	EPORT ROGRA	FREQUENCY: MM: afluent	Monthly Domestic
COUNTY:	Brevard			MONITORI	NG PERIOD	From:	01017	_ To: _	01.	51-12	
OFFICE:	Central District										
Parameter	T	Quantity or I	oading	Units	Q	uality or Conce	ntration	Units	No.	Frequency of Analysis	Sample Type
Flow(To RIBs)	Sample			MgD		}		1	1	Continuous	Flow Totaliza
PARM Code 50050 Y Mon. Site No. FLW-1	Permit Requirement		0.135 (An.Avg.)	MGD					d	Continuous	Flow Totalizer
Flow(Total Through Plant)	Sample Measurement		033	MyD					¢	Continuous	Mow Totalizo
PARM Code 50050 1 Mon. Site No. FLW-1	Permit Requirement		0.135 (An.Avg.)	MGD					¢	Continuous	Flow Totalizer
Flow(To RIBs)	Sample Measurement		:033	MyD					d	Con tinnous	FlowToteliza
PARM Code 50050 Q Mon. Site No. FLW-1	Permit Requirement		Report (Mo.Avg.)	MGD					¢	Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 2	20C Sample Measurement					4.27		myl	¢	Bi-monthly	8-hr FRC
PARM Code 80082 Y Mon. Site No. EFA-1	Permit Requirement					20.0 (An.Avg.	<u>}</u>	mg/L	9	Bi-monthly; every 2 months	8-hr FPC
BOD, Carbonaceous 5 day, :	20C Sample Measurement				7.2	3.2	6.4	mal	1	Bi-monthly	8-hiFRC
PARM Code 80082 A Mou. Site No. EFA-1	Permit Requirement				60.0 (Max.)	45.0 (Wk.Avg.	30.0 (Mo.Avg.)	mg/L.	9	Bi-monthly, every 2 months	8-hr FPC
Solids, Total Suspended	Sample Measurement					6.94	/	myl	9	Bi-monthly	8-1, PPC
PARM Code 00530 Y	Permit					20.0		ma/L	1	Bi-monthly	8-hr FPC

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAMETITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT SIGNATURE OF PRINCIPAL AGENT TELEPHONE NO DATE (mm/dd/yyyy) JEVRY Padrick Operator 324-639-127302/37/3012

(An.Avg.)

COMMENY AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

Requirement

every 2 months

#### DISCHARGE MONITORING REPORT - PART A (Continued)

#### FACILITY:

•

41

Sun Lakes Estates WWIF

MONITORING GROUP R-001 PERMIT NUMBER: FLA010353-003-DW2P NUMBER: MONITORING PERIOD From: 01-01-12 To: 01-31-12

Parameter		Quantity o	r Loeding	Units	(	Quality or Concentration			No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement				6.0	2.75	5,5	mp	¢	Bimothy	9-hr FRC
PARM Code 00530 A	Permit				60.0 (Max.)	45,0 (Wk Avg.)	30.0 (Mo.Avg.)	nig/L	d	Bi-monthly; every 2 months	8-hr FPC
Coliform, Fecal	Semple					1.0		Houme	¢	Bimith	Grad
PARM Code 74055 Y	Permit			1		200 (An Avn)		#/100mi	q	Bi-monthly	Grab
Coliform, Fecal	Sample			1		10	()	Hami	d	Bi-monthly	Gal
PARM Code 74055 A Mon. Site No. EFA-1	Permit Requirement					Report (Mo.Geo.Mn.)	800 (Max.)	#/100mL	9	Bi-monthly every 2 months	Grab
рН	Sample Measurement				7.2		7.2	Sik.	¢	5 Pays/vak	Grub
PARM Code 00400 A Mon. Site No. EFA-1	Permit Requirement				6.0 (Min.)		8.5 (Max.)	B.U.	¢	5 Days/Week	Grab
Chlorine, Total Residual(For Disinfection)	Sample Measurement				1.0			myl	¢	5Daysfurt	Grab
PARM Code 50060 A Mon. Site No. EFA-1	Permit Requirement				0.5 (Min.)			mg/L	¢	5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement						0.24	myl	Ø	Bi-monthly	8-hr FPC
PARM Code 00620 A Mon. Site No. EFA-1	Permit Requirement						12.0 (Max.)	Ang/L	1	Bi-monthly; overy 2 months	8-hr FPC
Nitrogen, Total	Sample Measurement						6.7	myl	Ø	B-moth	8-hrFR
PARM Code 00600 A Mon. Site No. EFA-1	Permit Requirement						Report (Max.)	mg/L	1	Bi-monthly every 2 months	8-hr FPC
Phosphorus, Total (as P)	Sample Measurement						4.5	myl	1	Bi-monthal	Shi FC
PARM Code 00665 A Mon. Site No. EFA-1	Permit Requirement						Report (Max.)	mg/L	2	Bi-monthly;	8-hr FPC
Flow(Total Through Plant)	Sample Measurement	.033	.021	Mad					¢	Centingues,	FlowTokty
PARM Code 50050 R Mon, Site No. FLW-1	Permit Requirement	Report (Mo.Avg.)	Report (Qt.Avg.)	MGD					Ø	Continuous	Flow Totalizer
Percent Capacity, (TMADF/ Permitted Capacity) x 100	Sample Measurement						.033	24070	Ø	Monthly	Cala later
PARM Code 00180 P Mon. Site No. CAL-1	Permit Requirement						Report (Mo.Avg.)	percent	d	Monthly	Calculated

#### DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY:

٩

e

Sun Lakes Estates WWTF

MONITORING GROUP

R-001

NUMBER: MONIFORING PERIOD From: 01-01-12 To: 01-31-12

PERMIT NUMBER: FLA010353-003-DW2P

Parameter		Quantity or Los		Units .	Que	ality or Concentration	C.	Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C(influent) PARM Code 80082 Q	Sample Measurement Permit						140 Report (Max.)	mal	9 1	Bi-monthly; every 2 months	8-hiFR 8-hi FPC
Mon. She No. INF-1 Solids, Total Suspended(Influent)	Sample						1/50	myl	1	Bi-monthly	8-h.FR
PARM Code 00530 Q Mon. Site No. INF-1	Permit Requirement						Report (Max.)	'mg/L		Bi-monthly, every 2 months	8-hr FPC
							·				
	1										
	1	1									
		1									
		1							Τ		
		1									

Permit Number:	
Monitoring Period	1

# DAILY SAMPLE RESULTS - PART B FLA010353-003-DW2P From: 01-01-12 To: 01-31-12 Facility: Sun Lakes Estates WWIF

Code	5 day, 20C mg/L 80082	Iotal Residual (For Disinfection) mg/L 50060	Fecal #/100mL	Nitrate, Tot (as N) mg/L	al Total mg/L	Total (as P) mg/(	, Solida, Tot Suspended mg/l.	al pH f s.u.	Flow ( RIB: MGI	To BOD, Carbonaceou 5 day, 20C (Influent) mg/L	Solids, To Suspende (Influent mg/L
Mon. Site	EFA-1	EFA-I		00620	00600	00665	00530	00400	5005		+
1				EFA-1	EFA-I	EFA-1	EFA-1	EFA-I	FLW-	1 80082	00530
2		13								- <u> </u>	INF-1
3		1.0			1		1	1-1-2	-+		
		1.0					<u> </u>	1.2	- 103	2	
		1.0						11.1	1031		
5		1.5			t			7.2	1.02	7]	
6		12			<b> </b>			7,2	,03		
7		42						7.2	.03.	21	
8		42-1		·····				72	1.02	7	
		##*						1=	103		
10		2.0					······		+		
		1.4	I					7,1	1.053	,	
11	T	10						7.2	1.031		
12		1.0	+					7.2	1033		
13			+					7.2	1022		
14		$\frac{10}{10}$						7.2	1 120	+	
15		1.0						72	1037	++	
		1.0		T				-10	10-7	4	
10					+			1.1	1.035		
17		10									
18		14+						7.+	1.038	1	
19 -	7 1 1	<u> </u>						7.2	DZI	++	
20	1.6	10	1.0	0,24	1.6	4.5	50	7.2	1027	7/20	1.10
21	í	1.0							1052	1290	485
		2.5					+	1.0	,050	-	
12								7.2	.033		
23		2,1									
24		2		<u> </u>				7.2	1032	1	
25							T	7.2	,025	t	
26		·Y						7.2	026	<u>┼┈╴╴</u> ╻╻	
27	10 1	4 1	10	0.24	6.7	2.3	6.0	72	1030		
20	4	4						7 2	1032	231	93
20	/.	4							1037		
29								7.2	1036		
30	17	15-									
31		2-						7.21	029		
stal ( 1	Q 1	2						7. 2	1025		
Ava i	-	2	0 0	.48	8.3 -	.8 1	10		. 27	11-1-	
6	,4	1.	0 .	024	4.1	9	-2		11	471	581
NET STATES	NG								022	235 2	90

Night Shift Operator Lead Operator

Certificate No: Certificate No:

Certificate No:

Name: Name: Z051 Name:

erry ric

ISSUANCE/REISSUANCE DATE: November 1, 2010

Class:

Class:

Class:



Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 (386)672-5668

#### ANALYTICAL RESULTS

Project: Sun Lakes Estates Pace Project No.: 3548449

Sample: Eff	I shiD.	2549440004	Callantari	04/0014	0.00.00				
	cap io.	3040449UU (	Conected	01/26/1	2 09:00	Received: 01/	/26/12 10:00 N	latrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytical	Method: SM 92	222D Prepar	ation Met	hod: SM	9222D	-	<u></u>	
Fecal Coliforms	1.0U C	FU/100 mL	1.0	1.0	1	01/26/12 12:20	01/27/12 11:03		
2540D Total Suspended Solids	Analytical	Method: SM 2	540D						
Total Suspended Solids	6.0 m	ıg/L	5.0	5.0	1		01/27/12 11:30		
5210B cBOD, 5 day	Analytical	Method: SM 52	210B Prepara	ation Mett	nod: SM	5210B			
Carbonaceous BOD, 5 day	5.6 m	ıg/L	2.0	2.0	1	01/27/12 07:15	02/01/12 09:43		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calculat	ion					
Total Nitrogen	6.7 m	ıg/L	0.50	0.25	1		01/31/12 15:38		
300.0 IC Anions	Analytical	Method: EPA 3	00.0						
Nitrate as N	0.24 m	g/L	0.050	0.025	1		01/28/12 01:51	14797-55-8	
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepara	ation Meth	nod: EPA	351.2			
Nitrogen, Kjeldahl, Total	6.6 m	g/L	0.50	0.086	1	01/27/12 10:30	01/30/12 13:54	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	53.2						
Nitrogen, NO2 plus NO3	0.030 i m	g/L	0.050	0.010	1		01/31/12 11:12		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepara	tion Meth	nod: EPA	365.4			
Phosphorus, Total (as P)	3.3 m	g/L	0.10	0.050	1	01/27/12 10:30	01/30/12 13:54	7723-14-0	

Date: 02/02/2012 03:45 PM

#### REPORT OF LABORATORY ANALYSIS

Page 5 of 15

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc...



Pace Analytical Services, Inc. 8 East Tower Circle Ormond Beach, FL 32174 (386)672-5668

.

#### ANALYTICAL RESULTS

Project:	Sun Lakes Est	lates								
Pace Project No.:	3548449									
Sample: Infl	· · · · · · · · · · · · · · · · · · ·	Lab ID:	3548449002	Collecter	1: 01/26/1:	2 09:00	Received: 01	1/26/12 10:00	Matrix: Water	
Param	eters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspe	ended Solids	Analytica	I Method: SM 2	540D						
Total Suspended S	olids	<b>93.0</b> 1	mg/L	10.0	10.0	1		01/27/12 11:3	80	
5210B cBOD, 5 da	у	Analytica	I Method: SM 52	210B Prepa	ration Meth	od: SM	5210B			
Carbonaceous BOE	0, 5 day	<b>231</b> r	ng/L	2.0	2.0	1	01/27/12 07:15	02/01/12 09:4	14	

Date: 02/02/2012 03:45 PM

#### **REPORT OF LABORATORY ANALYSIS**

Page 6 of 15

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



•

#### **ANALYTICAL RESULTS**

#### Project: Sun Lakes Estates

Pace Project No.: 3547922

Sample: Eff	Lab ID:	3547922001	Collected:	01/19/1	2 09:00	Received: 01/	19/12 10:15 Ma	atrix: Water	<del>_</del>
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytical	Method: SM 9	222D Prepar	ation Met	hod: SM	9222D			
Fecal Coliforms	1.0U C	FU/100 mL	1.0	1.0	1	01/19/12 13:03	01/20/12 14:54		
2540D Total Suspended Solids	Analytical	Method: SM 2	540D						
Total Suspended Solids	5.0U m	ng/L	5.0	5.0	1		01/23/12 11:30		
5210B cBOD, 5 day	Analytical	Method: SM 5	210B Prepar	ation Met	nod: SM	5210B			
Carbonaceous BOD, 5 day	7.2 m	ng/L	2.0	2.0	1	01/20/12 08:15	01/25/12 10:03		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calculat	ion					
Total Nitrogen	<b>1.6</b> m	ng/L	0.50	0.25	1		01/24/12 12:52		
300.0 IC Anions	Analytical	Method: EPA	300.0						
Nitrate as N	0.24 m	ng/L	0.050	0.025	1		01/19/12 22:02	14797-55-8	
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA	351.2 Prepar	ation Meti	hod: EP/	A 351.2			
Nitrogen, Kjeldahl, Total	1.4 n	ng/L	0.50	0.086	1	01/23/12 09:30	01/24/12 11:01	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA	353.2						
Nitrogen, NO2 plus NO3	0.18 n	ng/L	0.050	0.010	1		01/23/12 11:51		
365.4 Phosphorus, Total	Analytical	Method: EPA	365.4 Prepar	ation Meti	nod: EP/	A 365.4			
Phosphorus, Total (as P)	4.5 n	ng/L	0.10	0.050	1	01/23/12 09:30	01/24/12 11:01	7723-14-0	

Date: 01/27/2012 12:42 PM

#### **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

Page 5 of 15



#### **ANALYTICAL RESULTS**

Project: Sun Lakes Estates Pace Project No .: 3547922 Sample: Infl Lab ID: 3547922002 Collected: 01/19/12 09:00 Received: 01/19/12 10:15 Matrix: Water Parameters Results Units PQL MOL DF Prepared Analyzed CAS No. Qual 2540D Total Suspended Solids Analytical Method: SM 2540D **Total Suspended Solids** 488 mg/L 40.0 40.0 1 01/23/12 11:30 5210B cBOD, 5 day Analytical Method: SM 5210B Preparation Method: SM 5210B Carbonaceous BOD, 5 day 240 mg/L 2.0 2.0 1 01/20/12 08:15 01/25/12 10:04

Date: 01/27/2012 12:42 PM

#### **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

Page 6 of 15

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART &

When Completed until this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

Ð

When Completed mail this	report to: Department of	I PRVITCEIIIICIIMI FIC	1004014 55 17 1942			E	T AD10353-003-DW2P	Expi	ration	Date:	October 27, 2015
PERMITTEE NAME: MAILING ADDRESS;	Sun Lakes Homeowners 5600 US Hwy 1 N Sharps, Florida 32927	Association		PERMIT NUN LIMIT: CLASS SIZE	MBER:	F	inal VA	REP PRO	ORT FI	REQUENCY: I:	Monthly Domestic
FACILITY: LOCATION:	Sun Lakes Estates WW 616 Emerald Lake Driv Cocce, FL 32926-4648	e TF		MONITORIN MONITORIN RE-SUBMIT NO DISCHA	G GROUP NUME G GROUP DESC TED DMR: RGE FROM SITE	BER: F RIPTION: F	Repid Infiltration Basin ( カユーロノーク	RIB), includi To: 0	ing Infl	29-/ <del>3</del> -	
COUNTY: OFFICE:	Brevard Central District			MONITORIA	IG PERIOD	FROM:		Their T	No	Frequency of	Sample Type
Parameter		Quantity o	r Loeding	Units	Qu	ulity or Concent	ration	0110	Ex.	Analysis	
Flow(To RIBs)	Sample		071	TED					2	ontinuous	Mowlateliza
PADA Code 50050 V	Measurement		0.135	MOD					Ø	Continuous	Flow Totalizer
Mon. Site No. FLW-1	Requirement		(An Avg.)	12 1					d	Continuous	Phylatlas
Flow(Total Through Plant)	Sample Measurement		,076	Yay					r.	Continuous	Flow Totalizer
PARM Code 50050 1	Permit		0.135 (An Avg.)	MGD		L			¢_	0 1	0.711
Flow(To RIBs)	Sample		.034	Mat				<b></b>	Ø,	Contra 1045	Flow Totol 29
PARM Code 50050 Q	Permit		Report	MGD					E,		Plow I wanted
Mon. Site No. FLW-1 BOD, Carbonaceous 5 day,	20C Sample		(Internet)	1-1		4.39	7	Myl	2	Bi-month	8-hiFfC
PARM Code 80082 Y	Permit		+			20.0 (An Avg.)		mg/L	1	Bi-monthly/ every 2 months	8-tar FPC
Mon. Site No. EFA-1	Requirement	<u> </u>				107	605	in l.	d	Bi month	Quhi PPC
BOD, Carbonaceous 5 day,	Measurement		L		8.7	45.0	30.0	mg/L	10	Bi-monthly;	8-hr FPC
PARM Code 80082 A	Permit Requirement				(Mex.)	(Wk.Avg.	) (Mo.Avg.)	+	12	every 2 months	Q. FR
Solids, Total Suspended	Sample	T				7.75		my	F	Bi-monthly	8-hr FPC
PARM Code 00530 Y	Permit					20.0 (An.Avg.	2		VE	every 2 months	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information and imprisonment for knowing violations.

knowledge and benet, the, protate, out compare the set of the set	THIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)
NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT SIGNATORE OF PRINCIPAL EXE	7	271-124-1272	03/27/2012
The Mill agarator	F	71 67 1217	01/01/01/2
Jerry Padrick Operator			

1

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all stachments here):

DEP Form 62-620.910(10), Effective Nov. 29, 1994

October 27, 2015

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY:

Sun Lakes Estates WWIF

MONITORING GROUPR-001PERMIT NUMBER: FLA010353-003-DW2PNUMBER:<br/>MONITORING PERIODFrom: D > -01 - 1 >To: D > -29 - 1 >

Parameter	TT	Quantity or	Loading	Units	(	Juality or Concentration	240.	Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample	T		<b> </b> †	245	8.75	17.5	mi	Ø	Bi-monthy	8-hrFR
	Measurement			╂────┼	60.0	45.0	30.0	mg/L		Bi-monthly;	8-hr FPC
PARM Code 00530 A	Reminement	ļ		1 1	(Max.)	(Wk.Avg.)	(Mo.Avg.)		£ ]	every 2 months	
Mon. Site No. ErA-1	Semple			1	يبي المراجعة المراجعة المراجع			then	1	Bizelli	Grab
Contorni, recar	Measurement	1				1.0		Turne	£	1. HOWW	<u>Olar</u>
PARM Code 74055 Y	Permit			1		200		#/100ml.	1	Bi-monthly;"	Grab
Mon. Site No. EFA-1	Requirement					(An Avg.)		<u> </u>	<del>× 1</del>	every 2 months	
Coliform, Fecal	Semple Measurement					1.0	1.0	Paul	Z	131-monthy	Grab
PARM Code 74055 A	Permit					Report	800	#/100ml.	d	Br-montaty	Girdo
Mon. Site No. EFA-1	Requirement					(Mo.Geo.Mn.)	(Max.)	<u> </u>	χ.,	every 2 monus	
pH	Sample				7.1		7.3	5.4.	é	5 Days purk	Grab
PARM Code 00400 A	Permit			11	6.0		8,5	8.U.	d	5 Days/Week	Grab
Mon. Site No. EFA-1	Requirement				(Min.)		(Max.)		L.,		
Chlorine, Total Residual(For	Sample			1	<		{	1ant	0	5Durs/work	Grup
Disinfection)	Measurement			1			L	100	4-7	5 Date (Wash	Greb
PARM Code 50060 A	Permit		-	1 1	0.5		1	tug L	9	5 Days weak	0140
Mon. Site No. EFA-1	Requirement			∔	(Min.)					10 (1)	11 500
Nitrogen, Nitrate, Total (as N)	Sample Measurement					.042	1472	mge	Ľ,	Bimonthi	Shift
PARM Code 00620 A	Permit						12.0	mg/L	9	Bi-monthiy/	8-DFFPC
Mon. Site No. EFA-1	Requirement						(Max.)		4-7	every 2 monute	
Nitrogen, Total	Sample						27.8	Ingl	12,	Di monthly	8-hr FHC
PARM Code 00600 A	Permit						Report	mg/L	d	Bi-monthly	8-m rpc
Mon. Site No. EFA-1	Requirement						(Max.)		ĮΖ.,	every 2 monuns	
Phosphorus, Total (as P)	Sample						7.7	myl	I	Bi-month	8-hr FPC
PARM Code 00665 A	Permit						Report	mg/L	0	Bi-monthly	* 8-hr FPC
Mon Site No. EFA-1	Requirement						(Max.)		14	every 2 months	
Flow(Total Through Plant)	Sample	,034	.027	Mad					12	Continuor	Flontotop 20
PARM Code 50050 R	Permit	Report	Report	MOD		T			0	Continuous	Flow Totalizer
Mon. Site No. FLW-1	Requirement	(Mo.Avg.)	(Qt.Avg.)						¥-,	1 12	6777
Percent Capacity, (TMADF/	Sample						034	25 70	9	Monthis	Calculated
Permitted Capacity) x 100	Measurement						Report	persent	16	Monthly	Calculated
PARM Code 00180 P	Permit						(Mo Ave.)		18		
Mon Site No. CAL-1	Requirement			the second se		- I	and a second second	and the second	-		

DEP Form 62-620.910(10), Effective Nov. 29, 1994

#### DISCHARGE MONTTORING REPORT - PART & (Continued)

PERMIT NUMBER: FLA010353-003-DW2P

FACILITY:

•

٤,

Sun Lakes Estates WWTF

MONITORING GROUP NUMBER: MONITORING PERIOD From: D2-D1-12 To: D2-29-12

R-001

Parameter		Quantity of	r Loading	Units	Qu	lity or Concentratio	D.	Units	No, Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day, 20C(Influent)	Sample Measurement						196	mal	¢	Binorth	8. h. FRC
PARM Code 80082 Q	Permit						Report (Max.)	mğ/L	ſ	Bi-monthly every 2 months	8-br FPC
Solids, Total Suspended(Influent)	Sample				1		153	mil	¢	Bi-month	8-hr FPC
PARM Code 00530 Q Man. Site No. INF-1	Permit						Report (Max.)	Ang/1	$\boldsymbol{Z}$	Bi-monthly; every 2 months	8-hr FPC
								/			
								<u></u>			
								<u> </u>			
								L			
	1							L			
								<u> </u>			
	1										
	1										
	1	<u> </u>									
		1		1							

# DAILY SAMPLE RESULTS - PART B 2 To: 02-29-12 Facility: Sum Lakes Estates WWIF

Pennit Number: Monitoring Period FLA010353-003-DW2P From: 12-02-

	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/L	Phosphorua, Totai (as P) mg/L	Solids, Total Suspended mg/L	pH s.u.	Flow (To RIBs) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Total Suspended (Influent) mg/L
Code Mon Site	80082	50060	74055	00620	00600	00665	00530	00400	50050	80082	00530
1	L47A-1	1.2	EFA-1	Cr#-1	EFA-1	DFA-I	EFA-I	EFA-I	ELW-L	1-1911	unr-i
2		1.2				<u> </u>		7.2	1034 1034		
3		1.0						7.2	10JT		
4		1.0						7.2	1023		
5									10-22		
6		1.4						7.1	1032		
7	8.7	1.4	1.0	0.80	11.5	7.7	10.5	7.1	.024	196	53
8		1.4						7.1	,030		
9		1.6						7.2	,031		
10		15						7.2	.038		
11		1.0						7.2	,033		
12											
13		1.5						7.2	,033		
14		12						7.2	.028		
15		1.2						7.1	1028		
10		1:0						7.2	042		
17		1.0						7.1	,026		
10		1.2						7.3	.029		
20											
20		1.0						7.5	:033		
21	30	2.0	1.0	0,041	27.8	69	29.5	7.5	.027	155	153
22		2.0						7.3	,034		
24		2.0	<u> </u>					7.3	,038		
25		2.0						7.3	,050		
26		2.0						7.5	.031		
27		2.6									
28		2.0						1.3	,013	<b> </b>	
29		20						-13	1007		
30		de						_/.2_	1020		
31											
Total	11.7		2-0		115.3	14.1	35	_	.841	351	706
Mo. Avg.	5.85		1.0	.042	22.65	2.3	17.5		.034	175.5	103
PLANT ST	AFFING:							أعوره بطروي بيناهم ا			

Day Shift Operator	Class:		Certificate No:		Name:
Evening Shift Operator	Class:		Certificate No:		Name:
Night Shift Operator	Class:		Certificate No:		Name:
Lead Operator	Class:	<u> </u>	Certificate No:	7051	Name:

Jerry adril

ISSUANCE/REISSUANCE DATE: November 1, 2010



#### **ANALYTICAL RESULTS**

Project: Sun Lakes Estates

Pace Project No.: 3549239

Sample: Effl	Lab ID:	3549239001	Collected:	02/07/12	2 08:15	Received: 02/	07/12 09:50 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytical	Method: SM 9	222D Prepar	ation Meth	nod: SM	9222D		- <u> </u>	
Fecal Coliforms	1.0U C	CFU/100 mL	1.0	1.0	1	02/07/12 14:13	02/08/12 14:40		Y
2540D Total Suspended Solids	Analytical	Method: SM 2	540D						
Total Suspended Solids	<b>10.5</b> a	ng/L	5.0	5.0	1		02/08/12 11:30		
5210B cBOD, 5 day	Analytical	Method: SM 5	210B Prepara	ation Meth	od: SM	5210B			
Carbonaceous BOD, 5 day	8.7 n	ng/L	2.0	2.0	1	02/08/12 07:30	02/13/12 14:45		
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calculat	ion					
Total Nitrogen	17.5 п	ng/L	0.50	0.25	1		02/10/12 07:52		
300.0 IC Anions	Analytical	Method: EPA 3	0.000						
Nitrate as N	<b>0.80</b> m	ng/L	0.050	0.025	1		02/08/12 23:51	14797-55-8	
351.2 Total Kjeldahl Nitrogen	Analytical	Method: EPA 3	51.2 Prepara	ation Meth	od: EP/	A 351.2			
Nitrogen, Kjeldahl, Total	17.3 m	ng/L	0.50	0.086	1	02/08/12 11:00	02/09/12 12:20	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA 3	353.2						
Nitrogen, NO2 plus NO3	0.14 m	ng/L	0.050	0.010	1		02/08/12 12:05		
365.4 Phosphorus, Total	Analytical	Method: EPA 3	65.4 Prepara	ation Meth	od: EP/	A 365.4			
Phosphorus, Total (as P)	7.7 m	ng/L	0.10	0.050	1	02/08/12 11:00	02/09/12 12:20	7723-14-0	

Date: 02/14/2012 10:11 AM

#### **REPORT OF LABORATORY ANALYSIS**

Page 5 of 15

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



•

#### ANALYTICAL RESULTS

Project: Sun Lakes Estates

Pace Project No.: 3549239

•••••									
Sample: INF	Lab ID:	3549239002	Collected	: 02/07/1:	2 08:15	Received: 02	2/07/12 09:50 Ma	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspended Solids	Analytical	Method: SM 2	540D						
Total Suspended Solids	53.0 r	ng/L	10.0	10.0	1		02/08/12 11:30		
5210B cBOD, 5 day	Analytical	Method: SM 5	210B Prepar	ation Meth	nod: SM	5210B			
Carbonaceous BOD, 5 day	196 r	ng/L	2.0	2.0	1	02/08/12 07:30	02/13/12 14:47		

Date: 02/14/2012 10:11 AM

#### **REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..

Page 6 of 15



#### ANALYTICAL RESULTS

Project:	Sun Lakes Estates
Pace Project No.:	3550408

Sample: Eff	Lab ID:	3550408001	Collected	02/21/12	2 09:15	Received: 02/	21/12 10:10 M	atrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
9222D Fecal Coliform	Analytical	Method: SM 9	222D Prepar	ation Met	nod: SM	9222D			
Fecal Coliforms	1.0U C	FU/100 mL	1.0	1.0	1	02/21/12 12:23	02/22/12 14:15		Y
2540D Total Suspended Solids	Analytical	Method: SM 2	540D						
Total Suspended Solids	24.5 m	g/L	5.0	5.0	1		02/22/12 11:30		
5210B cBOD, 5 day	Analytical	Method: SM 5	210B Prepara	ation Meth	od: SM	5210B			
Carbonaceous BOD, 5 day	3.0U m	g/L	3.0	3.0	1.5	02/22/12 07:30	02/27/12 17:07		J(B2)
Total Nitrogen Calculation	Analytical	Method: TKN+	NOx Calculat	tion					
Total Nitrogen	27.8 m	g/L	0.50	0.25	1		02/24/12 09:15		
351.2 Total Kjeldahl Nitrogen	Analytical I	Method: EPA	351.2 Prepara	ation Meth	od: EP/	A 351.2			
Nitrogen, Kjeldahl, Total	27.8 m	g/L	0.50	0.086	1	02/22/12 08:00	02/22/12 13:51	7727-37-9	
353.2 Nitrogen, NO2/NO3 pres.	Analytical	Method: EPA	353.2						
Nitrogen, NO2 plus NO3	0.041 i m	g/L	0.050	0.010	1		02/23/12 08:03		
365.4 Phosphorus, Total	Analytical I	Method: EPA	365.4 Prepara	ation Meth	iod: EPA	365.4			
Phosphorus, Total (as P)	6.9 m	g/L	0.10	0.050	1	02/22/12 08:00	02/22/12 13:51	7723-14-0	

Date: 02/29/2012 09:48 AM

#### **REPORT OF LABORATORY ANALYSIS**

Page 5 of 14

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



#### ANALYTICAL RESULTS

Project:	Sun Lakes Est	tates								
Pace Project No .:	3550408									
Sample: Inf		Lab ID:	3550408002	Collected	: 02/21/12	09:15	Received: 02	/21/12 10:10 M	atrix: Water	
Param	eters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2540D Total Suspe	anded Solids	Analytical	Method: SM 25	540D						
Total Suspended S	olids	153 0	ng/L	5.0	5.0	1		02/22/12 11:30		
5210B cBOD, 5 da	у	Method: SM 52	210B Prepar	ation Meth	od: SM	5210B				
Carbonaceous BO	D, 5 day	<b>155</b> n	ng/L	2.0	2.0	1	02/22/12 07:30	02/27/12 17:09		

Date: 02/29/2012 09:48 AM

#### **REPORT OF LABORATORY ANALYSIS**

Page 6 of 14

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.. When Counieted mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

AA BOU COMPLEME HISTI COM	repetiter: Department of	Existical Production, 3317 tea	guie Dive, Su		17	1 AOLOJE2 OO2 DEPD	Ť.	dratio	Date	October 27, 2015	
PERMITTEE NAME:	Sun Lakes Homeowners	Association	PERMIT NU	MBER:	P	LU010323-003-DW%	1.1				
MAILING ADDRESS:	5600 US Hwy 1 N Sharps, Florida 32927		LIMIT: CLASS SIZ	8:	F	ical I/A	re Pr	PORT : DGRAI	FREQUENCY: M:	Monthly Domestic	
FACILITY:	Sun Lakes Estates WWI	F	MONITORI	NG GROUP NUME	er: R	1-001					
LOCATION:	616 Bauerald Lake Drive	•	MONITORI	NG GROUP DESCI	RIPTION: F	(RIB), inclu	I), including influent				
	Cocoa, FL 32926-4648		RE-SUBMITTED DMR:								
601 B 1971	D		NO DISCH	NO PROVIDE	3-	31-12					
COUNTY:	Cantral District										
OFFICE:											
Paramoter	T T	Quantity or Londing	Units	Qu	lity or Concent	ration	Units	No. Ex.	Prequency of Analysis	Sample Type	
Flow(To RIBs)	Semple		60	1		1		6	Cast.	FlouTototo	
	Meanmoment	.077	VYV				L	Ι <b>Χ</b> ,	(CPILIA 400)	1 1000 000 8 20	
PARM Code 50050 Y	Permit	0.135	MGD			1	1	A	Conquesous	Flow Totalizer	
Mon. Site No. FLW-1	Requirement	(An Avg.)					+	¥-,			
Flow(Total Through Plant)	Sample	A27	MAD I				t i	2	Continuous	Flow lotalize	
PARLA Code 60060 1	Permit	0135	MOD				1	A	Continuous	Flow Totalizer	
Mon. Site No. FLW-1	Requirement	(An Ave.)					1	1º			
Flow(To RIBs)	Sample		14 N					10	Pert	Fla Jable	
()	Meesurement	,032	Vial				Ļ	12	Continueus	V 154 1644 74	
PARM Code 50050 Q	Permit	Report	#GD				1	0	Commou	Flow Totalizer	
Mon. Site No. FLW-1	Requirement	(Mo.Avg.)					.÷	+2,	1 7		
BOD, Carbonaceous 5 day,	20C Sample				4.23		ma	9	12. much	8- WPPC	
	Meenant				200		1.	+-	Bi-monthly	8-hr FPC	
PARM Code 80082 Y	Parmit				(An Awr.)			10	every 2 months		
MOD. SHE NO. HFA-I	ACC Complement						1	172	12	OI. FD.	
DOD, Caroonaceous 5 day,	Autompto			3.64	.91	2.5	mel	ſ	Di month	Shire	
PARA Code 20023 A	Dermit			60.0	45.0	30.0	Aug/L	17	Bi-monthly/	8-hr FPC	
Mon. Site No. REA.1	Requirement	1		(Max.)	(WLAVE)	(Mo.Avg.)		1×	every 2 months	1	
Solids, Total Suspended	Sample		1		7,6		120. 1	d	R.h. H	Sch. FA.	
	Moestrement				1.61		1420	<₩_	Printing	A 1. 200	
PARM Code 00530 Y	Permit		1		20,0		SOU/L	0	151-00.00001y	8-Br FPC	
Mon. Site No. EFA-1	Requirement				(ADAVL)			12	I every & Hoopan		

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUT	HORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER	OR AUTHORIZED AGENT	TELEPHONE NO	DATE (man/dd/yyyy)
Tour Palack	populator	Ħ		34-639-1273	4/28/2
Lycry rance			ومستركبا ويتباد التكريب المتكاف المتكريب الشاريب فيتحالب المريان المتعرب والمستان المعتقد المتك		

1

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEP Form 62-620.910(10), Effective Nov. 29, 1994

FACILITY: Sun L	akes Estates WWTF			MONITORI NUMBER: MONITORI	NG GROUP NG PERIOD F	R-001 rom: <u>03-0</u>	1-12 To:	PERMIT N	UMBE - 31	R: FLA010353-00	3-DW2P
Parameter		Quantity or	Loading	Unit	Qu	ality or Concentration	n l	Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample	T		1	740	2.15	7.0	ni	ø	5: monthly	8-WFR
PARM Code 00530 A Mon. Site No. EPA-1	Permit	<u> </u>		t†	60.0 (básx.)	45.0 (Wk Ave.)	30.0 (Mo.Avg.)	Ing/L	1	Bi-monthly, every 2 months	8-hr FPC
Coliform, Fecal	Sample			1		1.0	-	Topic	1	Binenthin	Grab
PARM Code 74055 Y Mon. Site No. BPA-1	Permit			+-+		200		#/100ml_	0	Bi-monthly;	Greb
Coliform, Fecal	Semple			+		1.0	1.0	1 ton	1	Bi-monthly	Grub
PARM Code 74055 A Mon. Site No. EFA-1	Permit			+		Report (Mo Geo Mo.)	800 (Max.)	#/100ml	1	Bi-monthly;	Grab
PH	Sample			11	7.1	(AND COLORADY	7.2	5,4	Ì	5Develorek	Guab
PARM Code 00400 A Mon. Site No. EFA-1	Permit			+	6.0 (Min.)		B.S (Max.)	8,10.	¢	5 Daye/Work	Grab
Chlorine, Total Residual(For Disinfection)	Sample			+	1.0			nol	đ	5 Days/werk	Grab
PARM Code 50060 A Mon. Site No. EFA-1	Permit	1		+	0.5 (Min.)			mg/L	0	5 Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample	Ī		+1			0.10	march	ø	Bi-month	8. hrFRC
PARM Code 00620 A Mon. Site No. EFA-1	Permit	1		+-1		1	12.0 (Max.)	Aug/L	Ø	Bi-monthly;	8-hr FPC
Nitrogen, Total	Sample			1		1	26.5	3336	1	B. month	8-hrFPC
PARM Code 00600 A Mon. Site No. BFA-1	Permit	Ī	*****				Report (Max.)	1001L	9	Bi-monthly	8-hr FPC
Phosphorus, Total (as P)	Sample						4.5	magin	1	Birmonth	84 FR
PARM Code 00665 A Mon. Site No. EFA-1	Permit					1	Report (Max.)	ang/L.	P	Bi-monthly;	8-In FPC
Flow(Total Through Plant)	Sample	1032	033	Mad		T			17	Continue	Flutter
PARM Code 50050 R Mon. Site No. FL W-1	Permit	Report (Mo.Avg.)	Report (OLAve.)	MOD		T			19	Continuous	Flow Totalizer
Percent Capacity, (TMADP/ Permitted Capacity) x 100	Sample						,032	23 7	Ø	Months	Calculate
PARM Code 00180 P Mon. Site No. CAL-1	Permit Requirement					T	Report (Mo.Avg.)	percent	1	Monthly	Calculated

ISSUANCE/REISSUANCE DATE: November 1, 2010

DBP Form 62-620.910(10), Effective Nov. 29, 1994

Personalize         Questify or Looking         Uniti         Quality or Concentration         Jat /         Uniti         No.         Prequency of Astricts         Sample Type           BOD, Confronce.orus 5 day, DOLOG 80002         Sample         746         Math.         Astricts         Sample Type           PARA Code 8002         Pressi         Barren         0.041         West         Bit.         Bit. <th></th> <th></th> <th>•</th> <th></th> <th>MONITO NUMBER MONITO</th> <th>RING GROUP :: RING PERIOD</th> <th>R-001 From: <u>03-0</u></th> <th>(-12 To</th> <th>PERMIT :</th> <th>NUME</th> <th>IER: FLA010353-0</th> <th>03-DW2P</th>			•		MONITO NUMBER MONITO	RING GROUP :: RING PERIOD	R-001 From: <u>03-0</u>	(-12 To	PERMIT :	NUME	IER: FLA010353-0	03-DW2P
BOD: Carbonaccous 5 day.     Semple     Hell     Ref. Analysis       PARM Code 80082 Q     Versiti     Reservance     Ref. Hell     Hell (L.H. F.P.C.       Bodida, Total Bargended(Influen)     Semple     Ref. Hell     Ref. Hell     Ref. Hell       Bodida, Total Bargended(Influen)     Semple     Ref. Hell     Ref. Hell     Ref. Hell       Bodida, Total Bargended(Influen)     Semple     Ref. Hell     Ref. Hell     Ref. Hell       Addida 00530 Q     Penalti     Ref. Hell     Ref. Hell     Ref. Hell       Addida 00530 Q     Penalti     Ref. Hell     Ref. Hell     Ref. Hell       Addida 00530 Q     Penalti     Ref. Hell     Ref. Hell     Ref. Hell       Addida 00530 Q     Penalti     Ref. Hell     Ref. Hell     Ref. Hell       Addida 00530 Q     Penalti     Ref. Hell     Ref. Hell     Ref. Hell       Addida 00530 Q     Penalti     Ref. Hell     Ref. Hell     Ref. Hell       Addida 00510 Q     Ref. Hell     Ref. Hell     Ref. Hell     Ref. Hell       Addida 00510 Q     Ref. Hell     Ref. Hell     Ref. Hell     Ref. Hell       Addida 00510 Q     Ref. Hell     Ref. Hell     Ref. Hell     Ref. Hell       Addida 00510 Q     Ref. Hell     Ref. Hell     Ref. Hell     Ref. Hell	Parameter	1	Quantity	or Loading	Units		bality or Concentrati	ion: 7	Unite	No.	Prequency of	Sample Type
PARM Code 60022 Q     Permit     Permit     Report more     Permit	BOD, Carbonaceous 5 day, 20C(Influent)	Sample Moasurement		T	<u> </u>		T	+=+-	n.l.	Bx.	Analysis	1 50.
Solida, Total Suspended (Influen) Support Measurement PARM Code 0530 Q Measurement Requirement Require	PARM Code 80082 Q Mon. Site No. INF-1	Permit Requirement		[	<b>†</b>			Report	mg/L	1	Bi-monthly	8-br PPC
PARM Code 00530 Q         Parmit         Part (////////////////////////////////////	Solids, Total Suspended(Influent)	Sample Measurement			1			2-74	mil	d	every 2 months	121 52
	PARM Code 00530 Q Mon. Site No. INF-1	Permit Requirement						Report	Aper	<u>ب</u>	Bi-monthly	8-br FPC
Image: state stat					1	1	1	(Links)	<u>†</u>	╂──	every 2 months	
					<b></b>	<b>*</b>	*****		<u> </u>	╉───		<u> </u>
									<u> </u>	<u> </u>		
		[					†		<u> </u>			
					1		+		<u> </u>	<u> </u>		
					1				<u> </u>	<b> </b>		
						1	+		<u> </u>	╂		
					<u> </u>		+		+	<b>}</b>		····
					<u> </u>		+			┨────		
									<u> </u>	<u> </u>		
							+		<u> </u>	┠		
					<u> </u>				<u> </u>	<u>}</u>		
					]							

ISSUANCE/REISSUANCE DATE: November 1, 2010

DEP Form 62-620.910(10), Effective Nov. 29, 1994

3

Permit Number: Monitoring Period

#### DAILY SAMPLE RESULTS - PART B FLA010353-003-DW2P From: 03-01-

Facility: Sun Lakes Estates WWTF To: 03-31-12

BOD. Chlorine, Coliforn, Nitrogen, Nitrogen, aponecom Total Phoephorus, Pecal Solids, Total 5 day, 20C Nitrate, Total pĤ Total Flow (To Residual Total (as P) Solids, Tota Micoml. BOD, Suspended (as N) RIBs) ug/L 8.U. mg/L (For mg/L bonaceou mg/L Suspended mg/L Disinfection) MGD 5 day, 20C (influent) (Influent) mg/[. mg/L Code 80082 mg/L 50060 EPA-1 74055 EFA-1 00620 EFA-1 fon. Se EFA-1 00600 00665 00530 00400 EFA-1 50050 FLW-1 EFA-1 1 EFA-1 80082 00530 EFA-I 2.0 DF-1 2 INF-1 7.5 44 040 Ï 7,2 1.2 625 4 7.2 030 5 4 6 7.2 L.I 030 7 3 L 7.2 1.4 625 6 0,10 8 21 12 7.40 7.2 40 028 148 240 9 2.0 7.2 038 10 2.1 72 032 11 7,2 133 12 4 13 :033 7.2 Ľ 14 2,2 027 14 15 7,2 028 4 16 7.2 1.4 036 17 7,2 2.2 0.53 18 7.2 035 19 2.0 20 2 2.0 31 1 21 2,0 2 7 028 22 2.0 7, 2 カラチ 23 22 132 9 24 7,2. 031 1.2 25 2 2 030 26 1.0 27 7.2 2.8 037 28 7.2 3.64 2.0 027 1.0 0.10 27 29 48 6.60 2 225 209 1.0 274 30 032 7. 1.0 31 7,1 029 1.0 Total 5.0 7,1 030 2.0 0.21 53 Ava 2.5 10 855 352 514 1.0 0. 10 26.5 4 D 032 PLANT STAFFING: 176 257 Day Shift Operator Class Certificate No: Name: **Evening Shift Operator** Class: Certificate No: Night Shift Operator

Lead Operator

Certificate No:

Certificate No:

Name Name: 2051 Name:

err adrick

ISSUANCE/REISSUANCE DATE: November 1, 2010

Class:

Class:

DEP Form 62-620.910(10), Effective Nov. 29, 1994

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

	· · · · · · · · · · · · · · · · · · ·		•							_		_
PERMITTEE NAME:	Sun Lakes Homeowne	rs Association		PERMIT	UMBER:		FLA010353-003-DW2	ар I	(xpiratio	n Date:	October 27, 20	15
MAILING ADDRESS:	Sharps, Florida 32927			LIMIT: CLASS SI	ZE:		Final N/A	I I	EPORT ROGRA	FREQUENCY:	Monthly Domestic	
FACILITY:	Sun Lakes Estates WV 616 Emerald Lake Dri	VTF		MONITO	UNG GROUP NU	MBER: SCRIPTION:	R-001 Ranid Infiltration Basi	n (RTR) inc	hulino Ir	afhænt		
Lovanon.	Cocos, FL 32926-464	8		RE-SUBM	ITTED DMR:							
COUNTS/	Demmed			NO DISCI	LARGE FROM SIT	E:	4-1-12	Tai	4.	20-12		
OFFICE:	Central District					FIORE.		_ 10. ~	i	N 10		
												_
Parameter		Quantity	or Loading	Units		Quality or Conce	entration	Units	No. Ex	Frequency of Analysis	Sample Type	]
Flow(To RIBs)	Semple		120	MJ		1	T	-			1 -11	4
	Measurement		068	<u>1199</u>		- <b> </b>			1/2-	CONTINIOUS	1100 lotti	
PARM Code 50050 Y	Permit		0.135 (An Ave.)	Mean					d	Continuous	Flow I outlizer	İ.
Flow(Total Through Plant)	Semple	·····	(ALCAVE.)	1-11-1		+	~~~		185			<b>.</b>
A SOULT ON A LEGALAR A MARY	Measurement		1000040	Yila (l					9	Contingers	VIII Totaly	
PARM Code 50050 1	Permit		0.135	MOD		1			17	Continuous	Flow Totalizer	1
Mon. Site No. FLW-1	Requirement		(An.Avg.)						1E			
Flow(To RIBs)	Sample Measurement		,040	Mad					¢	Cut minais	Flue Total	Jan .
PARM Code 50050 Q	Permit	, , ,	Report	MGD		T	T	1	TZ	Continuous	Flow Totalizer	ſ
Mon. Site No. FLW-1	Requirement		(Mo.Avg.)						LE_			]
BOD, Carbonaceous 5 day, 2	0C Sample Measurement					4.15		Mal	Ø	B. Menthall Cupped ZMOSTA	She	
PARM Code 80082 Y	Permit			I T		20.0		me/L	d	Bi-monthly;	8-br FPC	1
Mon. Site No. EFA-1	Requirement					(An Avg.	<u>}</u>			every 2 months		1
BOD, Carbonaceous 5 day, 2	OC Sample Measurement				2.0	5,	2.0	MAL	¢	Cateral 2	SIN FR	]
PARM Code 80082 A	Permit				60.0	45.0	30.0	the L	10	Bi-monthly;	8-hr FPC	1
Mon. Site No. EFA-1	Requirement				(Max.)	(Wk.Avg.	) (Mo.Avg.)		12	every 2 months		]
Solids, Total Suspended	Sample Measurement					3.90		Mal	Ø	B. Aunth In-	Sha FR	
PARM Code 00530 Y	Parmit					20,0		sty/L	0	Bi-monthly,	8-hr FPC	1
Mon Site Mo REA.1	Deminant		1	1		(An Ava		1		every 2 months		F

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

6.5

OBELA

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE NO DATE (mm/dd/yyyy) ÖŚ 321-639-113

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

#### DISCHARGE MONITORING REPORT - PART & (Continued)

FACILITY:

٠

e

Sun Lakes Estates WWIF

MONITORING GROUP NUMBER: MONITORING PERIOD

PERMIT NUMBER: FLA010353-003-DW2P

R-001 PERMIT NUMBER: FLA From: <u>4-1-12</u> To: <u>4-30-12</u>

Parameter		Quantity	or Loading	Units		ushity or Concentra	tion	Unite	No. Ex.	Frequency of Applysis	Sample Type
BOD, Carbonaceous 5 day, 20C(Influent)	Sample Measurement						212	Mal	ø	B: Monthing	Sha
Mon. Site No. INF-1	Permit Requirement					1	Report (Max.)	ang/L	0	Bi-monthly;	8-hr FPC
Solids, Total Suspended(Influent)	Sample Measurement				]	T	428	Mil	1	b. math	81.
PARM Code 00530 Q	Permit			1	·		Report	A L	7	Bi-monthly,	8-hr FPC
	TOO TO S OLD GAL						(PAGEDC.)	<u> </u>	<u>×</u>	every 2 months	
				<u> </u>	<u> </u>	<u> </u>	<u> </u>	<b> </b>			
					<b>.</b>				ļ		
						<u>_</u>					
		<u> </u>					······································				
		······································									

#### DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY:

.

.

Sun Lakes Estates WWTF

MONITORING GROUP NUMBER: MONITORING PERIOD

PERMIT NUMBER: FLA010353-003-DW2P

R-001 PERMIT NUMBER: F. From: <u>4-1-12</u> To: <u>4-30-12</u>

Parameter		Quantity	or Loading	Units	Ç	unlity or Concentrati	on	Units	No. Ex.	Frequency of Analysis	Sample Type
Solids, Total Suspended	Sample Measurement				8-60	3,30	6.60	Mal	ø	Be Month Com 2 m	Shen
PARM Code 00530 A	Permit				60.0	45.0	30.0	-1	d	Bi-monthly,	8-br FPC
NICE. SUE NO. EFA-I	Kequarement			╺╂╼┉┉┉┢	(Max.)	(WK.AVg.)	(Mo.Avg.)			every 2 months	
Colliorm, Fecal	Meannement					1.0		HE L	10	B. Minth	Center
PARM Code 74055 V	Permit			╺╋╼┉╍╍╍╋		200		#/100ml	+	Di manth lui	Carb
Mon. Site No. EFA-1	Requirement					(An Ava.)		I W LOOKEL	10	Brittoniny;	UTRO
Coliform, Fecal	Sample		1	1		,		de .	17	4 6.	~ /
•	Measurement		L			1.0	1.0	TIADAL	9	DI Mostly	Carbo
PARM Code 74055 A	Permit		T			Report	800	#/100mL		Bi-monthly:	Grab
Mon. Site No. EFA-1	Requirement					(Mo.Geo.Mn.)	(Max.)		14	every 2 months	
ж	Sample				7.1		7.1-		9	91. 1. 1	Gent
	Demit						1.00	2.4.	1.	10445 IWKIC	Una
Mon. Site No. BFA-1	Requirement				(Min.)		8.3 (Max.)	5.4.	0	> Days/ Week	Grab
hlorine, Total Residual(For	Sample			1					TA	171 1 12	
Disinfection)	Measurement				.5			Mal	18	Iday lund	Gerb
ARM Code 50060 A	Permit		[		0.5			de/L		5 Devs/Week	Grab
Mon. Site No. BFA-1	Requirement		L		(Min.)				19		~
Nitrogen, Nitrate, Total (as N)	Sample						A 300		d	B. acoffee	c.l
	Measurement						0,393	Mal	LZ_		XAL
ARM Code 00620 A	Pamit						12.0	und/L	d	Bi-monthly;	8-br FPC
Vion. Sate No. EPA-I	Requirement			-			(Max.)		L.Z	every 2 months	
vitrogen, l'otal	Measurement						51	all	Ó	b. worth y	Ala.
ARM Code 00600 A	Permit			++			Report	Mar L	17	Bismonthhe	R by EDC
don. Site No. EFA-1	Requirement			1 1			(Max.)		9	every 2 months	0-18 LLC
hosphorus, Total (as P)	Sample			1				100 1		A	
	Measurement						5.7	Mal		D. Marthe	86
ARM Code 00665 A	Permit			T			Report	ng/L	~	Bi-monthly:	8-hr FPC
Mon. Site No. RFA-1	Requirement						(Max.)		14	every 2 months	
low(Total Through Plant)	Sample	ada	- 3 0	4.1				T	1	11-	7 71.
AD3.4 Co.d. 60060 D	Measurement	Report	<u>.035</u>	MG 01	بالشادي متهرج بالمستخذ فالخاك فا				<b>f</b>	artiques >	This lande
Ann Site No FT W.1	Recurrent		(Ot Asia)	MAGD					0	CONDINUOUS	Flow Totalizer
mont Capacity (TMADE/	Samole	(JARIJANYK-)	(Quays.)	++				+	Υ.		
emilted Canacity) x 100	Meanment						alla	21.90	0	Monthly	C.L.L.
ARM Code 00180 P	Permit		·	1			Report	percent	17	Monthing	Calaviated
Ann. Site No. CAL-1	Requirement						(Mo Ave)		0	WAARINY	Calculated

Permit Monite	Number: pring Period	FLA010353 From:	-003-DW2P 41-12	<b>DAILY S</b>	AMPLE 	RESULT 30-11-	S - PART Facility:	' <b>B</b> Sun Lakes Es	tates WWTF		
	BOD, Carbonaceous 5 day, 20C mg/L	Chlorine, Total Residual (For Disinfection) mg/L	Coliform, Fecal #/100mL	Nitrogan, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/l.	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/L	pH s.u.	Flow (To RIBs) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L.	Solids, Total Suspended (Influent) mg/L
Code	80082	50060	74055	00620	00600	00665	00530	00400	50050	80082	00530
1	AFA-1	EFA-I	EFA-1	EFA-I	EPA-1	EFA-1	EFA-I	EFA-1	FLW-1	I INF-1	INF-1
2	<b> </b>	<				+		71	0//0		
3		10		<u>†</u>		1		7.1	070	<u> </u>	
4	2.0	1.8	1.0	0.10	51	57	840	· · X ·	0.57	Pa	167
5	<u>↓</u>	1.8					0.00		078	00	136
6		2.4						7.2	.040	+	
7		2.4		1		[		7.2	071		
8						1					
9		24				1		7.2	1032	1	
10		2.4						7.2	.041	1	
11		20				1		7.2	1023		
12		23						7.2	.050	1	
13		2-3						7:2	1027	1	
14		23						7.2	.027		
15											
16		20						7.2	.043		
17		21						7.2	.041		
18		2-1						72	:043		
19		2.1						7.2	·058		
20		2.0						7.2	1034		-
21		2.0						7.2	1052		
22											
23		2.1						7.2	.053		
24		21						7.2	. 067		
25		2.4	_					7.2	.062		
26	2.0	3.0	1.0	0.69	35	2.4	4.60	7.2	.051	438	438
27		24						7.2	1025	212	
28		2.4						7.2	,041		
29											
30		2.4						72	.032		
31 Tetal											
	4.0		2.0	0.79	86	8-1	13.20		1.009	292	590
NO. Avg.	20	1	1.0	0-395	43	4.05	6.60		.040	146	295
PLANT ST	AFFING:										
Day Shift (	Operator	Class:		Certificate No:		N	ance:				
Evening St	nift Operator	Class:		Certificate No:		N	ame:				
Night Shift	Operator	Class:		Certificate No:		N	ame:		0		

Lead Operator

.

Certificate No: Certificate No:

4

Name:

7051

	Δ	
Jenny	KAde: of	

Class:

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, 3319 Maguire Blvd, Suite 232, Orlando, FL 32803-3767

PERMITTEE NAME: MAILING ADDRESS	Sun Lakes Homeowne 5600 US Hwy 1 N	rs Association		PERMITN	UMBER:		FLA010353-003-DW2	2P 1	apiratio	n Date:	October 27, 2015
	Sharpe, Florida 32927			LIMIT: CLASS SIZ	E:		Final N/A	R	EPORT	FREQUENCY:	Monthly
FACILITY: LOCATION:	Sun Lakes Estates WW 616 Emerald Lake Driv Cocoa, FL 32926-4648	/TF və }		MONITORI MONITORI RE-SUBMI	NG GROUP NU NG GROUP DE TTED DMR:	MBER: SCRIPTION:	R-001 Rapid Infiltration Basi	n (RIB), inc	huding In	fluent	LOGUES:
COUNTY:	Brevard			MONTON	ARGE FROM SI	TE: C	05-01-1	۲ <u> </u>	15	-31-12	
OFFICE;	Central District			1001411010	IN FERIOD	Proma:		_ 10; _	0.0		
Parameter		Quantity of	r Loading	Units		Quality or Conce	niration	Units	No.	Frequency of	Sample Type
Flow(To RIBa)	Secole								Ex.	Analysis	
	Measurement		.069	174D					0	Continues	Flow Tot 1
PARM Code 50050 Y	Permit		0.135	MGD				+	+	Continuous	Flow Todalizar
Mon. Site No. FLW-1	Requirement		(An Avg.)					1			
Plow(Iotal Through Plant)	Sample		029	MgD				1	0	l-ti	FI TIL
PARM Code 50050 1	Permit		0.135	MOD			·····		12-	Lontinue	Paulok 12
Mon. Site No. FLW-1	Requirement	[	(An.Avg.)			{		<b> </b>	0	COllabolds	riow lotalizer
Flow(To RIBa)	Sample Measurement		041	MaD				1	10	Posting	EI THE
PARM Code 50050 Q Mon. Site No. FLW-1	Permit		Report	MGD	**************************************			1	17	Continuous	Flow Totalizer
BOD, Carbonaceous 5 day, 20	C Sample	······································	(1980,7198.)	╺╋╍╍╍╍╍╋				- <u> </u>	12		
· · · · · · · · · · · · · · · · · · ·	Measurement					1118		mil	d	Bi-m H	al FDA
PARM Code 80082 Y	Permit	1		1		20.0		mell	+*-	Bi-monthly	She FDC
Mon. Sits No. EFA-1	Requirement					(An Avg.)			19	every 2 months	o-m Frc
BOD, Carbonaceous 5 day, 20	C Sample				6.7	277	NIC	1.00 (	d	Birn 14	8.1. Far
PARM Code 80082 A	Permit			╉╍╍╍╍╋	60.0		7.55	4740	12	V montag	ormite
Mon. Site No. EFA-1	Requirement			1 1	(May )	45.0 (1) AVO		mg/L	0	Di-monthly	8-br FPC
Solids, Total Suspended	Sample		······	++	<u>(</u> )	(IL MAR		+	ťæ	every 2 monans	7. 25
	Measurement					4.17	7	mal	19	B mon the	8-hrtc
March Code 00530 Y	Permit					20.0		her	d	Bi-monthi	8-hr FPC
MULL SHE NO. EFA-1	Kequirement					(An Avg.)			19	every 2 months	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/ITTLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED	AGENT SIGNATURE OF PRINCIPAL EXECUTION	VE OFFICER OR AUTHORIZED AGENT TELEPHONE NO	DATE (mm/dd/yyyy)
Jerry Padrick prices	for A	321 639-12	406/26/2012
	<u> </u>		1.7.00

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

1

FACILITY:

.

Sun Lakes Estates WWTF

# DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Sun	Lakes Estates WWTF			MONITOF NUMBER MONITOF	NING GROUP : NING PERIOD :	R-001 From: <u>05-0</u>	1-12 1	PERMIT To: <u>25</u>	NUM	BER: FLA010353- <u> </u>	003-DW2P
Parameter		Quantity	or Loading	Units	Q	uality or Concentrat	ion	Units	No.	Frequency of	Sample Type
Solids, Total Suspended	Sample		1			T	1		Ex.	Analysis	
DADA CALA COMPA	Measurement				Xe 11.0	3.75	7.5	mil	d	Bi-nen H	D. Fr
Man Site No EVA 1	Pecnit				60.0	45.0	30.0	mall	<u> </u>		8-MIPC
Coliforn Facal	Kequirement				(Max.)	(Wk.Avg.)	(Mo Avg.)		9	EST-HIODUNIY	8-br FPC
	Sample							the second	<del> ~ /</del>		
PARM Code 74055 Y	Permit		+			1.0		pond	19	O months	Gab
Mon. Site No. EFA-1	Requirement					200		#/100mil.	1	Bi-monthly	Grab
Coliform, Fecal	Sample		<u>+</u>	╺╼╊╍╍╍┥		(An Avg.)	ļ		12	every 2 months	
	Measurement					1.0	1.2	the .	6	Q. 11	Cal
PARM Code 74055 A	Permit		1		······································	Preset	2.0	100 M	12	DI-month	Grap
MOD. SILE NO. EFA-1	Requirement					(Ma Geo Ma )	(Merr)	#/100800	1	Bi-monthly	Grab
pr	Sample			1		(anarched.http://	(Internal)	+	₩ <u>-</u>	every 2 months	
PARM Code 00400	Measurement	·····			2.1		7.2	Su	9	5 Dente / 180	k Gab
Mon. Site No. BFA-1	Permit		1		6.0		8.5	5.0	<u>K –</u>	S Development	
Chlorine, Total Residual/For					(Min.)		(Max.)		0	J LAGY & WOOL	UTBO
Disinfection)	Measurement		1	1 1	سم			1		20 11	
PARM Code 50060 A	Permit			┉┠┈╍╌╴╂	<u> </u>			m	9	Shys week	Gab
Mon. Site No. EFA-1	Requirement		]	1 1	0.5			mg/L	d	S Days/Week	Grab
Nitrogen, Nitrate, Total (as N)	Sample				(Main.)			<u> </u>	L <u>X</u>		
	Meanrement						0.10	mal	d	R: HI	IT FDA
PARM Code 00620 A	Pennit						12.0	- 7	Ľ	1mont 9	8-MILL
MOL SHE NO. EPA-I	Requirement				ſ		(Max )	1 mm L	q	Bi-monthly/	8-br FPC
induger, rout	Sample					**************************************		<u> </u>	K	every 2 monutes	
PARM Code 00600	Measurement						47	mal	9	Bi-monthle	ShiFPC
Mon. Site No. EFA-1	Permit						Report	fe/L	7	Bi-monthly	R.h. FOC
Phosphorus, Total (as P)	Sample		· · · · · · · · · · · · · · · · · · ·				(Mex.)		Ý	svery 2 months	ourre
	Measurement						10	1.1	A	0. 11	11 600
PARM Code 00665 A	Permit			- <u>}-</u>			6.7	me	<u>y</u>	DI-month	S-hrTR
Mon. Site No. EFA-1	Requirement				1		Report	"ing/L	1	Bi-monthly	8-hr FPC
Flow(Total Through Plant)	Sample						(Max.)			every 2 months	
	Measurement	.041	.038	1/4D					1	C 1	FI Itt.
Mon Site No ET BZ 1	Pormit	Report	Report	MGD				f	Ζ	Confix 45	1 10000141,20
Demont Canacity (TLEATER)	Requirement	(Mo.Avg.)	(QLAvg.)						0	CONTINUOUS	Flow Totalizar
Permitted Canacity) y 100	Sample					ł	. 1 .	- 12	4		
PARM Code 00180 P	Demit		· · · · · · · · · · · · · · · · · · ·		I		.041	30 %	9	Marthy	I'm culuted
Mon. Site No. CAL-1	Requirement	1				1	Report	percent	1	Monthiw	Calculated
	Treedon content	L			1		(Mo.Avg.)	1 1	¥	17AVIBLAJV	VALOUIGICU

DISCHARGE MONTFORING REPORT - PART A (Continued)

FACILITY:

Sun Lakes Estates WWIF

MONITORING GROUP	R-001	PERMIT NUMBER: FI
NUMBER: MONITORING PERIOD	Emm: 05-01-12	TO: 05-31-12

PERMIT NUMBER: FLA010353-003-DW2P

Paraméter		Quantity	or Loading	Units	Q	uality or Concentrat	OD	Units	No. Ex.	Frequency of Analysis	Sample Type
BOD, Carbonaceous 5 day,	Sample		1	1	1		120	1. 1		0, 11	al FR
200(Influent)	Measurement		L	<u> </u>			230	no		Di-monthy	Shrin
Mon. Site No. INF-1	Requirement			1			Report (Mark )	mg/L	0	Bi-monthly;	8-hr FPC
Solida, Total Suspended(Influent)	Sample		1	╂╌╌╌	<u> </u>	l	(1044./		X		11
	Measurement						240	Myl	¢.	CI-monthly	Shr FIC
PARM Code 00530 Q	Permit				1		Report	Mag/L		Bi-monthly	8-hr FPC
Mon. Site No. INF-1	Requirement			ļ			(Max.)		L	every 2 months	
									ľ		
				1				1			
	††-			<u> </u>	<u> </u>			+			
		· · · · · · · · · · · · · · · · · · ·		<u> </u>	1			<u> </u>	<b> </b> ,		
		·····									
								1			
				[				1			
				<b></b>	<u> </u>			<u> </u>			
				ļ							
								ļ	ļ		
						······					
								<u> </u>			
		1						<b></b>			

# ISSUANCE/REISSUANCE DATE: November 1, 2010

Day Shift Operator

**Evening Shift Operator** 

Night Shift Operator

Lend Operator

	Carbonaceous 5 day, 20C mg/L	Total Residual (For Disinfection) mg/L	Coliforn, Fecal #/100mL	Nitrogen, Nitrate, Total (as N) mg/L	Nitrogen, Total mg/l.	Phosphorus, Total (as P) mg/L	Solids, Total Suspended mg/[.	pH s.u.	Flow (To RIBs) MGD	BOD, Carbonaceous 5 day, 20C (Influent) mg/L	Solids, Tota Suspended (Influent) mg/L
Code Mon Site	80082 FEA.1	50060	74055	00620	00600	00665	00530	00400	50050	90097	00520
1	1 1273-1	EFA-1	EFA-1	EFA-1	EFA-1	BFA-1	EFA-1	EFA-1	FLW-1	INF-1	INF-1
2	<u> </u>	1.0						7,>	1095		
3		2,0						7,2	,030		
4	<b> </b>	2.0		<b> </b>				7.2	1037		
5		1.0						7,2	,030		
6		1.3						7.2	1037		······································
7									T		
		1.3						7.2	1034		
	6.7	1.3	1.0	0.10	47	6.9	11	1.2	.033	210	220
10		1.3						7.2	.061		·
11		1.2						72	037		
		.5						7.2	DUD		
12		10				1		7.2	030		
13									10.00		
14		15						7.2	29		
15		1.5						7 2	A 20		
16		.5				+		22	10-7		
17		10				+		12	1031		
18		iv				{		7	094		
19		23		+		+			1039		
20		<u> </u>						1.2	1047		
21		12									
22		1.7						7,2	1038		
23	+	12						7.2	,043		
24		6.8						7.2	1048		
25		1.0						7.1	1037		
26		1.3						21	,033		
27		1.8						7.2	1038		
29											
		1.8						7.2	1028	T	
29	/	\$						7.2	1048		
30	2.4	1.8	1.0	0.046	29	5.8	4.0	7.2	,028	230	240
31		1.8						72	,068		
Total	9.1		2.0	0.146	76	9.8	15.0		1.108	440	460
o. Avg.	4.55		1.0	0.073	38	Va	75		.041	770	220

DAILY SAMPLE RESULTS - PART B FLA010353-003-DW2P Facility: Sun Lakes Estates WWTF To: 05-31-12

Permit Number: Monitoring Period

BOD,

From: 05-01-

12

DEP Form 62-620.910(10), Effective Nov. 29, 199

Class: Certificate No: Class: Class: Class; Certificate No:

705

Name: Name: Name: serr. Name:

Certificate No: Certificate No:

4

### **Client Sample Results**

Client: Sunlake Homeowners Association, Inc.

Project/Site: Sunlake Estates Waste	Treatment									•
Client Sample ID: Sunlake Es	tates Influe	nt					Lab Sam	ple ID: 660-4	7537-1	
Date Collected: 05/08/12 09:00						Matrix: Matar				
Date Received: 05/08/12 13:45								, , , , , , , , , , , , , , , , , , ,	A. YTQ(GI	
General Chemistry										
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dii Fac	
Carbonaceous Biochemical Oxygen Demand	210		67	67	mg/L			05/09/12 15:23	1	
Total Suspended Solids	220		10	10	mg/L			05/10/12 07:56	1	
Client Sample ID: Sunlake Es Date Collected: 05/08/12 09:00 Date Received: 05/08/12 13:45	tates Efflue	ent					Lab Sam	ple ID: 660-4 Matri	7537-2 x: Water	
General Chemistry										
Analyte	Result	Qualifier	POL	MDL.	Unit	Ð	Prepared	Analyzed	Dil Fac	
Nitrogen, Kjeldahl	47	J3	2.0	0.50	mgA		05/17/12 13:00	05/18/12 10:39	10	
Nitrate Nitrite as N	0,10	U	0.50	0.10	mg/L			05/18/12 12:17	1	
Phosphorus, Total	6.9	J3	0.30	0.10	mg/L		05/17/12 13:00	05/18/12 10:29	1	
Carbonaceous Biochemical Oxygen Demand	6.7	U	6.7	6.7	mg/L.			05/09/12 15:23	1	
Total Suspended Solids	11		1.7	1.7	mg/L			05/10/12 07:56	1	
Nitrogen, Total	47		0.70	0.15	mg/L			05/18/12 16:21	1	
Method: SM 9222D - Coliforms, Fe	cal (Membra	ne Filter)								
Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	

 Analyte
 Result
 Qualifier
 PQL
 MDL
 Unit
 D
 Prepared
 Analyzed

 Coliform, Fecal
 1.0
 0
 1.0
 1.0
 CFU/100mL
 05/08/12 14:08

1

## **Client Sample Results**

C

Client Sample ID: Sunlake Estates Influent Date Collected: 05/30/12 10:40 Date Received: 05/30/12 13:45						Lab Sample ID: 660-47927 Matrix: Wa				
General Chemistry	Posult	Ouglifier	POI	NDI	11-14	•	Durana	Au ab mu d	DH F	
Carbonaceous Biochemical	230		200	200	mal		Prepared			
Oxygen Demand	2.50		200	200	ingre			00/30/12 15,40	ſ	
Total Suspended Solids	240		10	10	mg/L			06/01/12 12:44	1	
Client Sample ID: Sunfake E	Estates Efflue	ent					Lab Sam	ple ID: 660-4	7927-2	
Date Collected: 05/30/12 10:40								Matri	· Water	
Date Received: 05/30/12 13:45										
General Chemistry Analyte	Result	Qualifier	PQL	MDL	Unit	D	Prepared	Analyzed	DNI Fac	
Nitrogen, Kjeldahl	29		1.0	0.20	mg/L		06/07/12 10:00	06/08/12 09:34	5	
Nitrate Nitrite as N	0.046		0.010	0.0047	mg/L			06/04/12 14:15	1	
Phosphorus	5.8		0.20	0.088	mg/L		06/07/12 10:08	06/08/12 11:48	20	
Carbonaceous Biochemical Oxygen Bemand	2.4		2.0	2.0	mg/L.			05/30/12 15:46	1	
Total Suspended Solids	4.0		1.0	1.0	mg/L			06/01/12 12:44	1	
Nitrogen, Total	29		0.21	0.21	mg/L			06/08/12 09:34	1	
Method: SM 9222D - Coliforms,	Fecal (Membra	ne Filter)								
Analyte	Result	Qualifier	PQL	MDL.	Unit	D	Prepared	Analyzed	Dil Fac	
Coliform, Fecal	1.0	U	1.0	1.0	CFU/100mL			05/30/12 15:33	1	

# Fax

# FACSIMILE

Date: 6/28/2012

To:	SU942 TKCB
From:	Office of Commission Clerk

#### Subject:

This fax was generated by the Florida Public Service Commission's Case Management System. Your e-mail address of record is unavailable; therefore, multiple attempts will be made to fax this document. Do not report a fax failure. If all attempts fail, you will automatically be served a copy of the document via U.S. mail.

To receive electronic service of future documents, you must provide your e-mail address to the Office of Commission Clerk at clerk@psc.state.fl.us. If there is a request to update the information in the Master Commission Directory, such changes should be submitted by an official company representative on a Change of Information on Regulated Utility form, which is available from the Commission's Web site at www.floridapsc.com, under Utility Regulation.

#### From: Office of Commission Clerk

## BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Water and wastewater industry annual reestablishment of authorized range of return on common equity for water and wastewater utilities pursuant to Section 367.081(4)(f), F.S.

DOCKET NO. 120006-WS ORDER NO. PSC-12-0339-PAA-WS ISSUED: June 28, 2012

The following Commissioners participated in the disposition of this matter:

RONALD A. BRISÉ, Chairman LISA POLAK EDGAR ART GRAHAM EDUARDO E. BALBIS JULIE I. BROWN

#### NOTICE OF PROPOSED AGENCY ACTION ORDER ESTABLISHING AUTHORIZED RANGE OF RETURNS ON COMMON EQUITY FOR WATER AND WASTEWATER UTILITIES

#### BY THE COMMISSION:

NOTICE is hereby given by the Florida Public Service Commission that the action discussed herein is preliminary in nature and will become final unless a person whose interests are substantially affected files a petition for a formal proceeding, pursuant to Rule 25-22.029, Florida Administrative Code (F.A.C.).

#### BACKGROUND

Section 367.081(4)(f), Florida Statutes (F.S.), authorizes this Commission to establish, not less than once each year, a leverage formula to calculate a reasonable range of returns on equity (ROE) for water and wastewater (WAW) utilities. The leverage formula methodology currently in use was established in Order No. PSC-01-2514-FOF-WS.<sup>1</sup> On October 23, 2008, this Commission held a formal hearing in Docket No. 080006-WS to allow interested parties to provide testimony regarding the validity of the leverage formula.<sup>2</sup> Based on the record in that proceeding, we approved the 2008 leverage formula in Order No. PSC-08-0846-FOF-WS.<sup>3</sup> In that order, we reaffirmed the methodology that was previously approved in Order No. PSC-01-

<sup>3</sup> See Order No. PSC-08-0846-FOF-WS, issued December 31, 2008, in Docket No. 080006-WS, <u>In re: Water and</u> wastewater industry annual reestablishment of authorized range of return on common equity for water and wastewater utilities pursuant to Section 367.081(4)(f), F.S.

04292 JUN 28 S

<sup>&</sup>lt;sup>4</sup> See Order No. PSC-01-2514-FOF-WS, issued December 24, 2001, in Docket No. 010006-WS, In re: Water and wastewater industry annual reestablishment of authorized range of return on common equity for water and wastewater utilities pursuant to Section 367.081(4)(f), F.S.

<sup>&</sup>lt;sup>2</sup> At the May 20, 2008, Commission Agenda Conference, upon request of the Office of Public Counsel, this Commission voted to set the establishment of the appropriate leverage formula directly for hearing.

ORDER NO. PS 20039-PAA-WS DOCKET NO. 20006-WS PAGE 2

2514-FOF-WS. In 2011, we approved the leverage formula currently in effect by Order No. PSC-11-0287-PAA WS<sup>4</sup>

This Order continues to use the leverage formula methodology established in Order No. PSC-01-2514-FCF VS and reaffirmed in Order No. PSC-08-0846-FOF-WS. This methodology uses returns on interact OE) derived from financial models applied to an index of natural gas utilities. Based in the results of our annual review, there is an insufficient number of water and wastewater utilities that meet the requisite criteria to assemble an appropriate proxy group. Therefore, since the have used natural gas utilities as the proxy companies for the leverage formula. There is an insufficient of their revenue from regulated rates. There is an utilities have market power and are influenced significantly by economic regulation. As a connect below, the model results based on natural gas utilities are adjusted to reflect the risks taced by Florida water and wastewater utilities.

Although Section 367.081(4)(f), F.S., authorizes us to establish a range of returns for setting the authorized nOE for water and wastewater utilities, we may set an ROE for water and wastewater utilities based on record evidence in any proceeding. If one or more parties file testimony in opposition to the use of the leverage formula, we will determine the appropriate ROE based on the evidentiary record in that proceeding.

We have jurisdiction pursuant to Section 367.081, F.S.

100

#### DECISION

As stated above, we must establish a leverage formula not less than once a year. For the instant docket, using current financial information and our approved methodology, the upper end of the allowed return on equity range would increase by almost 100-basis points, and the bottom of the range would be decreased by 38-basis points. This results in the widest spread, 378-basis points (8.36 percent to 12.14 percent), for the allowed return on common equity for water and wastewater utilities in the approximately 30 years the leverage formula has been in use in Florida.

The Federal Reserve Board's various quantitative easing programs have lowered interest rates and bond peties to historically low levels. The Baa3 bond rate of 5.84 percent, which includes a 50-basis point adjustment for small company risk and a 50-basis point adjustment for a private placement premium, is the lowest since the inception of our leverage formula in 1982. In addition, the event cost of capital for the proxy group used in the leverage formula model declined 38-basis point adjustment for 2011 to 2012 (8.36 percent versus 8.74 percent), yet the upper end of the required return or equity increased 98-basis points (12.14 percent versus 11.16 percent). Having the overall cost of capital decline and the cost of debt decline to historically low levels while the cost of equity component in the leverage formula increases is anomalous. Because

<sup>4</sup> See Order No. PSC-11-0287-PAA-WS, issued July 5, 2011, in Docket No. 110006-WS, <u>In re: Water and</u> wastewater industry annual reestablishment of authorized range of return on common equity for water and wastewater utilities pursuant to Section 367.081(4)(f), F.S.

#### ORDER NO. PSC-12-0339-PAA-WS DOCKET NO. 120006-WS PAGE 3

federal policies have lowered interest rates thereby increasing the slope of the leverage formula relative to previous years, we find the updated leverage formula is not optimal for determining the appropriate authorized ROE for water and wastewater utilities at this time. An increase in the slope of the leverage formula means a given change in the equity ratio will result in a greater change to the cost of equity. Chart 1 illustrates the change in the slope of the leverage formula for mula for the three years 2010 through 2012.



Because the 2011 leverage formula range of 8.74 percent to 11.16 percent appears to be more reasonable for water and wastewater utilities, the current leverage formula shall continue to be used for determining the return on equity for water and wastewater utilities. We find that this is the best alternative until the leverage formula is addressed again in 2013.

We note that in 1996, we decided to continue to base the authorized ROE for water and wastewater utilities on the leverage formula instituted in 1995.<sup>5</sup> In Order No. PSC-96-0729-FOF-WS, we found that the leverage formula range of returns from the prior year were still reasonable and found it appropriate to continue to base the authorized range of returns on common equity for water and wastewater utilities on the leverage formula from the prior year.

We continue to believe the leverage formula is a sound, workable methodology that reduces the costs and administrative burdens in water and wastewater rate cases by eliminating the need for cost of equity testimony. Many of the water and wastewater utilities under our

<sup>5</sup> See Order No. PSC-96-0729-FOF-WS, issued May 31, 1996, in Docket No. 960006-WS, <u>In Re: Annual</u> reestablishment of authorized range of returns on common equity of water and wastewater utilities, pursuant to Section 367.081(4)(f), F.S.
#### ORDER NO. PSC-12-0339-PAA-WS DOCKET NO. 120006-WS PAGE 4

4)

jurisdiction are small operations that find it beneficial to avoid the costs associated with presenting cost of equity testimony.

Although we find the current 2011 leverage formula shall continue to be used, we note that the updated model, using the most recent financial data, would produce the following leverage formula

#### etum on Common Equity = 5.84% + 2.521/Equity Ratio

Where the Equity Ratio = Common Equity/(Common Equity + Preferred Equity + Long-Term and Short-Term Debt)

Range: 8.36% @ 100% equity to 12.14% @ 40% equity

Using this model, the returns on common equity would be capped at 12.14 percent for all water and wastewater utilities with equity ratios less than 40 percent to discourage imprudent financial risk. This cap is consistent with the methodology in Order No. PSC-08-0846-FOF-WS.

In developing the updated leverage formula, we used the same methodologies used in the 2011 docket. The leverage formula depends on four basic assumptions:

1) Business risk is similar for all water and wastewater utilities;

 The cost of equity is an exponential function of the equity ratio but a linear function of the debt to equity ratio over the relevant range;

3) The marginal weighted average cost of investor capital is constant over the equity ratio range of 40 percent to 100 percent; and

The debt cost rate at an assumed Moody's Baa3 bond rating, plus a 50-basis point private placement premium and a 50-basis point small utility risk premium, represents the average marginal cost of debt to a Florida water and wastewater utility over an equity ratio range of 40 percent to 100 percent.

For these reasons, the leverage formula is assumed to be appropriate for the average Florida water and wastewater utility.

The leverage formula relies on two ROE models. The results of these models were adjusted to reflect differences in risk and debt cost between the index of companies used in the models and the average Florida water and wastewater utility. Both models include a fourpercent adjustment for flotation costs. The models are as follows:

• A Discounted Cash Flow (DCF) model applied to an index of natural gas utilities that have publicly traded stock and are followed by the <u>Value Line Investment Survey (Value Line</u>). This DCF model is an annual model and uses prospective growth rates.

ARdin -

itis

And an and a state of a

In A CALLER AND A COMPANY

THES C.

#### of 14

#### ORDER NO. PSC-12-0339-PAA-WS DOCKET NO. 120006-WS PAGE 5

to: SU942 TKCB

The index consists of eight natural gas companies that derive at least 50 percent of their total revenue from gas distribution service. These companies have a median Standard and Poor's bond rating of A.

A Capital Asset Pricing Model (CAPM) using a market return for companies followed by <u>Value Line</u>, the average yield on the Treasury's long-term bonds projected by the Blue Chip Financial Forecasts, and the average beta for the index of natural gas utilities. The market return for the 2012 leverage formula was calculated using a quarterly DCF model with stock prices as of May 16, 2012.

We averaged the indicated returns of the above models and adjusted the result as follows:

- A bond weld differential of 59-basis points is added to reflect the difference in yields between an A/A2 rated bond, which is the median bond rating for the natural gas utility index, and a BBB-/Baa3 rated bond. Florida water and wastewater utilities are assumed to be comparable to companies with the lowest investment grade bond rating, which is Baa3. This adjustment compensates for the difference between the credit quality of "A" rated debt and the credit quality of the minimum investment grade rating.
- A private placement premium of 50-basis points is added to reflect the difference in yields on publicly traded debt and privately placed debt, which is illiquid. Investors require a premium for the lack of liquidity of privately placed debt.
- A small utility risk premium of 50-basis points is added because the average Florida water and wastewater utility is too small to qualify for privately placed debt.

After the above adjustments, the resulting cost of equity estimate is included in the average capital structure for the natural gas utilities. The derivation of the leverage formula using the current methodology with updated financial information is presented in Attachment 1.

For administrative efficiency, the leverage formula is used to determine the appropriate return for an average Florida water and wastewater utility. Traditionally, we have applied the same leverage formula to all water and wastewater utilities. As is the case with other regulated companies under our jurisdiction, we have discretion in the determination of the appropriate ROE based on the evidentiary record in any proceeding. If one or more parties file testimony in opposition to the use of the leverage formula, we will determine the appropriate ROE based on the evidentiary record in that proceeding.

Based on the aforementioned, we find that the current range of returns on common equity of 8.74 percent to 11.16 percent is still reasonable for water and wastewater utilities. As such, the current leverage formula authorized by us in Order No. PSC-11-0287-PAA-WS shall remain unchanged until we address the leverage formula in 2013. Accordingly, the following leverage formula is approved:



#### Return on Common Equity = 7.13% + 1.610/Equity Ratio

Where the Equity Ratio = Common Equity/(Common Equity + Preferred Equity + Long-Term and Short-Term Debt)

#### Range: 8.74% @ 100% equity to 11.16% @ 40% equity

Further, to discourage imprudent financial risk, the returns on common equity shall be capped at 11.16 percent for all water and wastewater utilities with equity ratios less than 40 percent. This cap is consistent with the methodology in Order No. PSC-08-0846-FOF-WS.

#### Based on the foregoing, it is

test in the first of the second statement of the

Heading the Hyprocession of a regard

AT MANY

法部分的

The state of the s

also this sounds of all on a

ORDERED by the Florida Public Service Commission that the current 2011 leverage formula authorized by us in Order No. PSC-11-0287-PAA-WS, and as set out above, shall continue to be used until the leverage formula is readdressed in 2013. It is further

ORDERED that the returns on common equity shall be capped at 11.16 percent for all water and wastewater utilities with equity ratios less than 40 percent in order to discourage financial risk. It is further

ORDERED that Attachment 1 is incorporated herein by reference. It is further

ORDERED that the provisions of this Order, issued as proposed agency action, shall become final and effective upon the issuance of a Consummating Order unless an appropriate petition, in the form provided by Rule 28-106.201, Florida Administrative Code, is received by the Commission Clerk, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, by the close of business on the date set forth in the "Notice of Further Proceedings" attached hereto. It is further

ORDERED that upon expiration of the protest period, if a timely protest is not received from a substantially affected person, the decision shall become final and effective upon the issuance of a Consummating Order. However, this docket shall remain open to allow our staff to monitor changes in capital market conditions and to readdress the reasonableness of the leverage formula as conditions warrant. From: Office of Commission Clerk

ORDER NO. PSC-12-0339-PAA-WS DOCKET NO. 120006-WS PAGE 7

By ORDER of the Florida Public Service Commission this 28th day of June, 2012.

Join Wan

Chief Deputy Commission Clerk Florida Public Service Commission 2540 Shumard Oak Boulevard Tallahassee, Florida 32399 (850) 413-6770 www.floridapsc.com

Copies furnished: A copy of this document is provided to the parties of record at the time of issuance and, if applicable, interested persons.

#### NOTICE OF FURTHER PROCEEDINGS OR JUDICIAL REVIEW

The Florida Public Service Commission is required by Section 120.569(1), Florida Statutes, to notify parties of any administrative hearing that is available under Section 120.57, Florida Statutes, as well as the procedures and time limits that apply. This notice should not be construed to mean all requests for an administrative hearing will be granted or result in the relief sought.

Mediation may be available on a case-by-case basis. If mediation is conducted, it does not affect a substantially interested person's right to a hearing.

The action proposed herein is preliminary in nature. Any person whose substantial interests are affected by the action proposed by this order may file a petition for a formal proceeding, in the form provided by Rule 28-106.201, Florida Administrative Code. This petition must be received by the Office of Commission Clerk, 2540 Shumard Oak Boulevard, Tallahassee, Florida 32399-0850, by the close of business on July 19, 2012.

In the absence of such a petition, this order shall become final and effective upon the issuance of a Consummating Order.

Any objection or protest filed in this/these docket(s) before the issuance date of this order is considered abandoned unless it satisfies the foregoing conditions and is renewed within the specified protest period.

> nen ander son der son Son der son der son der son der son der son der son der son der son der son der son der son der son der son der Son der son der son der son der son der son der son der son der son der son der son der son der son der son der

A REPART OF A STATE OF A REAL

## ORDER NO. PSC 12-0339-PAA-WS DOCKET NO. 120006-WS PAGE 8

14

#### Attachment 1 Page 1 of 6

#### SUMMARY OF RESULTS

#### Leverage Formula Update

	Results	in Effect
(A) DCF ROE for Natural Gas Index	9.08%	8.25%
(B) CAPM ROE for Natural Gas Index	9.70%	<u>9.40%</u>
AVERAGE	9.39%	8.83%
Bond Yield Differential	0,59%	0.57%
Private Placement Premium	0.50%	0.50%
Small-Utility Risk Premium	0.50%	0.50%
Adjustment to Reflect Required Equity		
Return at a 40% Equity Ratio	1.15%	0.76%
Cost of Equity for Average Florida WAW		
Utility at a 40% Equity Ratio	12.14%	11.16%

2011 Leverage Formula (Currently in Effe	ct)
Return on Common Equity 👘 😑	7.13% + 1.610/ER
Range of Returns on Equity =	8.74% - 11.16%
Proposed 2012 Leverage Formula (Update	d)
Return on Common Equity =	5.84% + 2.521/ER
Range of Returns on Equity =	8.36% - 12.14%

etter and

AND THE REAL PROPERTY.

- Filte H

#### ORDER NO. PSC-12-0339-PAA-WS DOCKET NO. 120006-WS PAGE 9

Attachment 1 Page 2 of 6

4:38pm

p. 10

of 14

Marginal Cost of Investor Capital Average Water and Wastewater Utility

m: Office of Commission Clerk

Capital Co	mponent	Ratio	Marginal <u>Cost Rate</u>	Weighted Marginal <u>Cost Rate</u>
Common Total Deb	Equity	48.94%	10.99%	5.38%
		100.00%	5.0770 Stars	8.36%

A 40% equity ratio is the floor for calculating the required return on common equity. The return on equity at a 40% equity ratio is 5.84% + 2.521/.40 = 12.14%

#### Marginal Cost of Investor Capital Average Water & Wastewater Utility at 40% Equity Ratio

<u>Capital Component</u>	Ratio	Marginal <u>Cost Rate</u>	Weighted Marginal Cost Rate
Common Equity	40.00%	12.14%	4.86%
Total Debi	60.00%	5.84% *	3.50%
Total Debi	<u>60.00%</u> 100.00%	5.84% *	「御外たいかちを読む

Where: ER = Equity Ratio = Common Equity/(Common Equity + Preferred Equity + Long-Term Debt + Short-Term Debt)

Assumed Baa3 rate for April 2012 plus a 50 basis point private placement premium and a 50 basis point small utility risk premium.

Sources: Moody's Credit Perspectives and Value Line Selection and Opinion

Los Haunda Beury/Handaba Dao

#### ORDER NO. PSC-12-0339-PAA-WS DOCKET NO. 120006-WS PAGE 10

are en ple l'

Attachment I Page 3 of 6 To: SU942 TKCB

Office

of Commission Clerk

-28-12

4:38pm

p. H

of 14

#### ANNUAL DISCOUNTED CASH FLOW MODEL

INDEX	NAJURAL	GAS INDEX	e Andre in the second			VALUE	E ICELE- Mar	A OCTOBA				
Property and states of the second states of						Marcine 1715		un racenz		Provide State	APRI	
COMPANY	DIVO	DIVI	DIV2	DIV3	D)V4	EPS4	ROE4	GRI-4	GR4+	HI- PR	LO- PR	AVER-P
AGL RESOURCES INC	1.84	1 88	1.92	1.96	2.00	4.10	12 00	1.0208	1.0615	39.75	37.75	38 7
ATMOS ENERGY CORPORATION	1.38	1.40	1.43	1.45	1.48	2.70	8.00	1.0187	1:0361	32.65	30.80	31.7
LACLEDE GROUP, INC.	1.65	1.69	1.73	1 76	1 80	3.05	10.00	1.0212	1.0410	39.98	38.45	39.2
NORTHWEST NATURAL GAS CO.	1.78	1 82	1.86	1.90	1.94	3.60	10.50	1 0215	1,0484	46.08	43.90	44.9
PIEDMONT NATURAL GAS CO., INC.	1.19	1.23	1.27	131	1 35	1.90	13.00	1.0315	1.0376	31 61	29.05	30.3
SOUTH JERSEY INDUSTRIES, INC.	1.64	) 80	1.94	2 09	2.25	4,50	17.00	1 0772	1 0850	51.03	47.42	49.2
SOUTHWEST GAS CORPORATION	1 18	i.30	1 39	1.49	1.60	3.80	12.00	1.0717	1,0695	43.52	40.76	42.1
WGL HOLDINGS, INC.	1.59	1.63	1.67	1.71	1.75	2.80	10.00	1 0240	1 0375	41 30	38 56	39.9
							Press Bart	The second second		1		
AVERAGE	1.5313	1.5938	1.6500	1.7092	1.7713	3.3063	11.5625	1.0358	1.0521			39.5

#### S&P STOCK GUIDE MAY 2012 with APRIL Stock Prices

Stock Price	w/four Percent Flor	tation Costs	\$37.96		Annual	9 08%	ROE	
	Cash Flows	1.4181	1.3512:	1.2826	1.2180	1.1617	31.5251	
Present Valu	e of Cash Flows	37.9566		a Ballana an			A STATE	1

NOTE: The cash flows for this multi-stage DCF Model are derived using the average forecasted dividends and the near term and long term growth rates. The discount rate, equales the cash flows with the average stock of flotation cost.

三时代和日春秋~~~

\$37.96 = April 2012 average stock price with a 4% flotation cost. 9:08% = Cost of equity required to match the current stock price with the expected cash flows.

Sources

1 Stock Prices - S&P Stock Guide, May 2012 Edition. 2 DPS, EPS, ROE - Value Line Issue: March 9, 2012,

	17.8-5		5.655		6590	23
To	<b>SU9</b>	42	TK	CB		

From: Office of Commission Clerk

ORDER NO. PSC DOCKET NO. 120006-WS PAGE 11

ĸ

K

RF

Attachment 1 Page 4 of 6

Capital Asset Pricing Model Cost of Equity for Water and Wastewater Industry

CAPM analysis formula

RF + Beta (MR - RF)

-0339-PAA-WS

Investor's required rate of return

Risk-free rate (Blue Chip forecast for Long-term Treasury bond,

May 1, 2012)

Beta

Measure of industry-specific risk (Average for water utilities followed by Value Line)

MR

Market return (Value Line Investment Survey For Windows, May 2012)

70% = 3.66% + 0.68(12.31% - 3.66%) + 0.20%

网络金属装饰 自己的复数子中的分词称

Auto Di Charles

11111

and the total of

節和於

Note: The market return was calculated using a quarterly DCF model for a large number of dividend paying stocks followed by Value Line. For May 2012, the result was 12.31%. Also, 20-basis points were added to the CAPM result to allow for a four-percent flotation cost.

From: Office of Commission Clerk

of 14

# ORDER NO. PSC-12-0339-PAA-WS DOCKET NO. 120006-WS PAGE 12

To: SU942 TKCB

MO

April Sour

A DESCRIPTION

Attachment 1 Page 5 of 6

	P	BONI ublic Utilit	YIEL	D DIFFERI Term Bond	Yield	LS Averages		er den menneden	
Ibrith Average Spread		0.1482		0.1482		0.1482		0.1482	
THYEAR	A2	SPREAD	A3	SPREAD	Baał	SPREAD	Baa2	SPREAD	Baa3
2012	4.23	0.15	4.38	0.15	4.53	0.15	4.68	0.15	4.83
s: Moody's Credit Pe	espectives ar	d Value Line	Selection	and Opinion					

ME DANFERREITE 1 crines

andese

1.58

149

**《**就社》

# ORDER NO. PSC-12-0339-PAA-WS DOCKET NO. 120006-WS PAGE 13

#### Attachment 1 Page 6 of 6

#### INDEX STATISTICS AND FACTS

Natural Gas Distribution Proxy Group	S & P Bond <u>Rating</u>	% of Gas <u>Revenue</u>	V/L Market Capital (S millions)	Equity Ratio	Value Line Beta
AGL Resources Inc.	BBB+	68%	\$ 3.061.43	40.38%	0.75
Annos Energy Composition	BBB+	62%	\$ 2,906.33	46.62%	0.70
Laclede Group, Inc.	A	56%	\$ 887.66	55.26%	0.60
Northwest Natural Gas Co.	A+	56%	\$ 1,205.91	46.46%	0.60
Piedmont Natural Gas Co., Inc.	A	100%	\$ 2,155.24	49.77%	0.70
South Jersey Industries, Inc.	BBB+	58%	\$ 1,463.00	45.49%	0.65
Southwest Gas Corporation	BBB+	74%	\$ 1,918.20	49.43%	0.75
WGL Holdings; Inc.	A+	51%	\$ 2,027.40	58.12%	0.65
Average:				48 04%	0.68

Sources:

ACUERCENINGS Franklin Alfra Lavers whop,

**第三日**本日日

To: SU942 TKCB

Value Line Investment Survey for Windows, May 2012 S.E.C. Forms 10Q and 10K for Companies AUS Utility Report, May 2012 Standard & Poor's Ratings Direct

R The

#### UPDATED CAPACITY ANALYSIS

#### REPORT

#### FOR

#### SUN LAKES ESTATES

#### WASTEWATER TREATMENT PLANT

BREVARD COUNTY, FLORIDA Facility ID: FLA010353 Permit No.: FLA010353 Expires: 10/1/2010

Prepared For: Sun Lakes Homeowners Association 5600 US Hwy 1N Sharps, Florida,32927

SEPTEMBER 9, 2010

Prepared By: McDonald Group International, Inc. 9030 S. Brittany Path Inverness, Florida 34452 C.A.-7580



#### **CAPACITY ANALYSIS**

#### REPORT

#### FOR

#### **Sun Lakes Estates**

#### Wastewater Treatment Plant

#### **Brevard County, Florida**

The information contained in this report was prepared in accordance with sound engineering principals, and the recommendations contained within have been discussed with the permittee

Date:

George J. McDonald, P.E., FL PROFESSIONAL ENGINEER NO. 44740 McDonald Group International, Inc. CA-0007580 9030 S. Brittany Path, Inverness, Florida 34452 (352)-637-1652

I am fully aware and intend to comply with the recommendations and schedules included in this report

Date:

Thad Terry Sun Lakes Homeowners Association 5600 US Hwy 1N Sharps, Florida,32927 321-639-1124

#### **CAPACITY ANALYSIS REPORT** FOR Sun Lakes Estates WASTEWATER TREATMENT PLANT

# **Table of Contents**

1.0	. Genera	al 5
	1.1	Authorization and Purpose 5
	1.2_	Related Reports and Documents 5
	1.3	General Service Area Description
	1.4	Facility Information
	1.5	Scope of Report
	1.6	Information Sources
2.0	Existi	ng Conditions and Permitted Capacities
	2.1	Influent Strength
	2.2	Updated Flow Information 12
	2.2.1	Flow Calibration 12
	2.2.2	Plant Flow Characteristics 12
	2.2.2	Peak Hour Flows
	2.2.5	Ffluent Quality 14
	2.5	Design and Current Loadings 14
	$\frac{2.7}{2.5}$	Effluent Disposal / Pausa
	2.5	Waste Sludge Disposal or David Statem
	$\frac{2.0}{2.61}$	General Information A hout Dule 62 640 EDA Dule 502
	2.0.1	Deneral Information About Kule 02-040, EPA Kule 503 17
2.0	<u>2.0.2</u>	Disposal and Reuse of waste Sludge From fachame w w IP 17
5.0	Future	Unit What Constitution Projection
	3.1	Unit Waste Generation Rates 19
	3.2	Future Possible Average Flow
1.0	3.3	Growth Rate 19
4.0	Summa	ary and Recommendations
<u>Figures</u>		
Figure 1.1 Street	Location N	ſар
Figure 1.2 USGS	Мар	8
Figure 1.3 Process	Plan	0
Figure 1.4 Site P	lan	10
Figure 2.2 Flow	Thort	
Figure 2.2 Flow C		
Tables		
Table 1.4 WWTF	Effluent L	imitation Standards
Table 2.1 Influent	Strength	
Table 2.2 Flow a	nd Perform	nance History
Table 2.3 Effluer	t Quality /	Analysis 14

		1 1
Table 2.2	Flow and Performance History	13
Table 2.3	Effluent Quality Analysis	14
Table 2.4 -	· Process Data	15
Table 2.5 I	Effluent Disposal\Reuse System	16
Table 2.6	Sludge (Residuals) Disposal	18
Table 3.2	Future Possible Average Flow	19

3

#### **CAPACITY ANALYSIS REPORT**

#### 1.0. General

Florida Department of Environmental Protection (FDEP) Rule 62-600.405(4) F.A.C. requires that a capacity analysis report be submitted to the Department with a permit application to renew a Wastewater facility permit.

This capacity analysis is submitted to the FDEP by McDonald Group International, George J. McDonald, P.E., consultant engineer for Sun Lakes Homeowners Association, the owner and operator of the Sun Lakes Estates Wastewater Treatment Plant located in Brevard County, Florida in order to comply with Rule 62-600.405, F.A.C. The last capacity analysis report is believed to have been performed during the last permit renewal.

The facility is located at 616 Emerald Lake Drive, Sharps, Florida. A location map and USGS quad map are provided in Figures 1.1 and 1.2, respectively.

#### 1.1 <u>Authorization and Purpose</u>

Sun Lakes Homeowners Association has retained George J. McDonald, P.E. to study their plant's historical flows, service area characteristics, and issues which effect changes in future capacity requrements of their wastewater treatment plant in order to provide a capacity analysis report (CAR) in support of the wastewater plant permit application.

#### 1.2 Related Reports and Documents

Accompanying this report is an Operations and Maintenance Performance Report, as well as FDEP Forms 1 and 2A for a domestic wastewater treatment plant. Additional information is contained in the accompanying reports and documents.

#### 1.3 General Service Area Description

The treatment facility serves Sun Lakes Estates. This area consists of approximately of about 206 mobile home units at present.

#### 1.4 Facility Information

This Wastewater Treatment Plant is presently permitted for the flow capacity and discharge limitation standards in the following table:

# Table 1.4 WWTF Effluent Limitation Standards Sun Lakes Estates

- 1. Maximum flow capacity 0.135 MGD
- 2. BOD and TSS maximum concentrations -

20 mg/L annual average

- 30 mg/L monthly average
- 45 mg/L weekly average
- 60 mg/L any one sample
- 3. pH range 6.00 to 8.50
- 4. Fecal Coliform -

200 #/100 annual average

- 800 #/100 maximum
- 5. Minimum  $Cl_2$  conc. 0.5 mg/L
- 6. Nitrate 12 mg/L max

The Sun Lakes Estates Wastewater Treatment Plant has been active since 1/84.

#### Process

It is an activated sludge waste treatment facility operating in the extended aeration mode. The treatment process comprises the following: flow equalization, aeration, final settling; sludge digestion, disinfection. A process plan follows the USGS map in the following pages as figure 1.3.

#### Modifications

The facility has not been reported to have been modified in the last 5 years.

#### Notices of violation

According to the Owner and the operator, no recent notices of violation have been received or consent orders entered into.

#### 1.5 Scope of Report

Although containing many elements of a regular capacity analysis report, the depth and scope of this report is meant to equal or exceed the requirements for an "abbreviated" capacity analysis report.

#### 1.6 Information Sources

This report is prepared based on information supplied by the permittee, information that may be found in FDEP public databases, the current permit, and information supplied by the operator. The report relies on the accuracy of this information for all analysis and opinions.





#### Figure 1.2 USGS Map



7

. . . . .

Figure 1.3 Process Plan



Figure 1.4 Site Plan

ź



THIS SITE PLAN SKETCH BASED ON SITE OBSERVATIONS, AERIAL IMAGES, AND INFORMATION PROVIDED BY OWNER AND OPERATOR. THIS IS NOT A SURVEY

#### 2.0 Existing Conditions and Permitted Capacities

The Sun Lakes Estates Wastewater Treatment Plant has been active since 1/84. It is an activated sludge waste treatment facility operating in the extended aeration mode. The current operating permit, FLA010353 is due to expire 10/1/2010.

The Wastewater Treatment Plant is presently permitted to discharge effluent meeting the Secondary Treatment Technology Based Effluent Standards listed in the table in section 1.4.

#### 2.1 Influent Strength

The major parameters used to evaluate influent strength are influent BOD, TSS, TKN. Of these only BOD and TSS are often required to be tested by permit.

Based on available test data, the influent strength is estimated to be as follows:

## Table 2.1 Influent Strength

Parameter	<u>Characterization</u>			
CBOD <sub>5</sub>	242 mg/L			
TSS	258 mg/L			

This is considered to be a normal strength wastewater

#### 2.2 Updated Flow Information

In this section, data and analysis is presented regarded current plant flows

#### 2.2.1 Flow Calibration

Flows to this wastewater plant are determined by an effluent flow meter.

The accuracy of this method is maintained by the operator.

#### 2.2.2 Plant Flow Characteristics

Data from Discharge Monitoring Reports (DMRs) were studied to determine the present plant flow characteristics. Table 2.2 summarizes the data taken from the DMRs for the period reviewed.

Figure 2.2 graphically illustrates the month average and rolling three month average flow for the period reviewed:



#### Figure 2.2 Flow Chart

**Historic FLow** 

## Table 2.2 Flow and Performance History

		Flow		BOD An	BOD Mo	BOD	Tss An	TSS Mo					Fecal				
	Flow An Avg	3MADF	Flow Mo Avg	Avg	Avg	Max	Avg	Avg	TSS Max	pH Min	pH Max	Fecal An	MGM	TRC	Nitrate	BOD In	TSS In
Jul-01	0.056		0.056	19.6	24.6		23.5	23.5		6.8	7	200	200		0.02	146	234
Aug-01	0.063		0.07	23.8	28.1		33.2	21.4		7.4	8.4	99	2	0	0.02	150	347
Sep-01	0.061	0.061	0.058	58.2	63.5		26.9	14.4		6.6	8.4	100	103	0.5	0.022	138	67
Oct-01	0.06	0.060	0.053	54	3.75		25.4	8		7.4	8.2	93.1	11	0.6	0.03	81	83.7
Nov-01	0.059	0.054	0.05	50	3.1		23.8	5		7.5	8.3	105.7	258	0.5	0.08	163	83
Dec-01	0.057	0.049	0.045	46.4	4.3		22.4	6.5		7.3	8	98.2	9	0.6	0.89	175	102
Jan-02	0.036	0.047	0.045	40.8	2		20.6	12.2		7.1	8	97	90	0.6	1,152	100	102
Feb-02	0.054	0.043	0.038	38	4.7	5.8	19.6	8	12.3	7,5	8.4	89,6	2	0.5	0.99	157	146
Mar-02	0.053	0.043	0.047	35.8	9.7	17.9	23	23.2	41.5	7.5	8.5	87.7	65	0.6	1.15	166	285
Apr-02	0.053	0.048	0.058	33.5	3.5		25.9	617		7	83	82.8	25	0.6	0.45	272	203
May-02	0.054	0.052	0.051	25.8			48.5	22.9		7	7 2	507.3	502	0.5	0.02	386	500
Jun-02	0.055	0.059	0.067	13.1	37	6	17.5	9.25	14	67	7 5	001.0	17	0.5	0.058	146	509
Jul-02	0.051	0.060	0.061	11.3	2.5	26	15.7	2.5	26	6.9	78	48 2	2.5	0.5	0.330	167	307
Aug-02	0.054	0.066	0.069	9	7.85	7.85	15.19	7.85	97	7.2	7.6	56.5	48.5	0.5	0.189	110	504
Sen-02	0,031	0.063	0.059		26	26	13.15	7.5	10	7.1	7 4	90.00	653	0.5	0.738	87.5	197
Oct-02	0.048	0.058	0.045	4.55	3.05	4.2	14.41	5 75	6	7	7.4	08.7	6	0.5	0.256	125.5	102
Nov 02	0.047	0.038	0.041	4.53	1 25	5.2	14.41	16.75	26.5	7.2	7.6	6	0	0.5	1.80	123.5	101.3
Dec 02	0.047	0.040	0.041	4.33	2.55	5.4	14.5	10.75	20.5	7.2	7.0	77.2	5	0.5	1.09	174	525
Dec=02	0.032	0.040	0.034	4.45	2.55	0.7	14.4	4.25	0	1.5	7.0	(0.0	0.5	0.5	1.34	1/4	181
Jan-03	0.048	0.037	0.037	4.03	3.9	0.5	14.00	2	0	0.5	7.0	09.9	1	0.5	0.092	319	313
reb-03	0.03	0.033	0.029	4.33	2.9	4.5	13.9	8.5	13	7.2	7.8	/1.4	1	0.5	0.376	135	136
Mar-03	0.049	0.034	0.037	4.43	5.05	9.8	14.4	20.5	27	7.4	7.6	68.7	37.5	0.5	1.4	194	86.7
Apr-03	0.055	0.034	0.037	4.51	4.8	4.9	14.8	20.5	29	7.4	7.6	66.1	13	0.5	0.116	256	342
May-03	0.046	0.038	0.04	4.4	6.8	6.8	10.8	14.5	14.5	7.4	7.8	66.3	2	0.5	0.074	184	83.3
Jun-03	0.045	0.038	0.038	4.4	4./	7.9	11.7	23.2	51	7.5	7.8	65.2	0.5	0.5	0.063	299	374
Jul-03	0.039	0.037	0.034							7.4	7.8			1.8			
Aug-03	0.039	0.037	0.038				10.0	20	20	7.4	7.6			0.5			
Sep-03	0.031	0.038	0.042	4.6	6.6	6.6	16.4	36	36	7.5	7.8	61	1	0.5	0.116	133	212
Oct-03	0.034	0.040	0.041	4.8	7.4	9.6	15.8	9.25	16	7.5	7.8	56.3	1	0.9	0.721	143	1545
Nov-03	0.036	0.041	0.041	4.7	4.5	4.5	16.9	30.2	50	7	7.4	50.4	2	0.6	0.092	223	189
Dec-03	0.036	0.042	0.044	4.8	5.6	8	15.2	8.25	9	7.6	7.8	51.9	1	2.2		266	467
Feb-04	0.039	0.042	0.041	6	7.1	8	14.7	6.5	7	7.1	7.8	4.96	4	0.5	0.067	217.5	223
Mar-04	0.038	0.044	0.046	6.1	8.1	16.3	14	5.7	8.5	7.4	7.9	4.65	1	0.5	0.144	282	194
Apr-04	0.038	0.044	0.044	5.9	4	4		26.5	26.5	7.8	7.2	7.98	48	2	0.005	389	218
May-04	0.039	0.047	0.051	5.7	3.35	5.2	13.3	5.5	7.5	6.8	7.5	7.3	1	0.8	10.4	209	372
Jun-04	0.043	0.050	0.056	5.9	8.2	9.7	13.3	14.4	18.8	7.5	7.8	7.4	9.5	0.5	0.056	172	211.5
Jul-04	0.049	0.053	0.053	6	7.35	13.1	13.1	10.65	14	7.5	7.8	8.05	17	0.5	0.049	186.5	198.5
Aug-04	0.051	0.057	0.061	6.73	10.9	12	15.23	11.1	14	7.5	7.8	62.7	667	0.6	0.025	185	285
Sep-04	0.047	0.053	0.044	6.33	2	2	12.6	5.2	8.4	7.3	7.6	63.7	12.5	0.5	0.54	92.5	109
Oct-04	0.05	0.051	0.049	5.99	2	2	12.1	6.3	6.6	7.6	7.9	59.3	7.5	0.5	0.045	150	240
Nov-04	0.049	0.045	0.041	5.6	2	2	11.4	3.9	4.4	7.5	7.7	54.8	1	1	0.181	150	125
Dec-04	0.048	0.042	0.036	5.3	2	2	11.3	11	12	7.4	7.9	50.6	1	0.5	0.663	240	215
Jan-05	0.045	0.033	0.022	4.8	9.6	17	3.98	9.6	17	7.3	7.8	1	1	0.6	0.0215	150	82.9
Mar-05	0.041	0.029	0.03	4,77	2.8	3.3	9.2	8.1	10.8	7.2	7.6	10,5	54,5	0.5	0.76	146	156
Apr-05	0.042	0.033	0.047	4.71	4.1	4.4	8.8	8.4	16.8	6.1	7.8	9.76	1	0.5	0.95	190	220
May-05	0.044	0.039	0.041	4.28	4.1	4.1	8.49	3	3	7.1	7.5	6.02	1	0.5	0.032	225	105
Jun-05	0.04	0.046	0.05	5.16	12.5	15	8.61	9.1	11	7.2	7.5	8.56	1	0.5	0.058	205	150
Jul-05	0.05	0.047	0.05	5.13	4.85	7.7	8.34	5.2	8.4	7.1	7.5	7.97	1	0.5	0.0635	200	150
Aug-05	0.05	0.051	0.053	5.08	4.45	6.9	8.05	4.6	7.2	7.1	7.5	1	5	0.8	0.425	140	130
Sep-05	0.05	0.051	0.051	7.15	32	32	7.58	2	2	7.3	76	1	1	0.5	13	240	410
Oct-05	0.051	0.053	0.054	6.75	2	2	7 25	33	6.4	7.2	7.4	1 19	3.5	0.5	63	110	410
Nov-05	0.05	0.049	0.041	6.38	2	2	6.8	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DATA	NO DAT
Dec-05	0.044	0.045	0.041	7	2	2	5	2	2	7	73	5.1	1	0.8	27	175	NO DATA

12

	Flow		w BOD An BOD Mo BOD		Tss An TSS Mo			Fecal									
	Flow An Avg	3MADF	Flow Mo Avg	Avg	Avg	Max	Avg	Avg	TSS Max	pH Min	pH Max	Fecal An	MGM	TRC	Nitrate	BOD In	
Jan-06	0.044	0.055	0.082	6.61	2.05	2.1	5,1	6.5	11	7.3	7.6	4,78	1	0.5	0.035	145	155
Feb-06	0.052	0.070	0.087	6.12	2	2	5.38	6.9	10	7.1	7.4	1.88	13.5	0.5	2.7	155	112
Mar-06	0.051	0.072	0.046	5.8	2	2	5.43	6.1	7	7.1	7.4	12.5	1	0.5	2.88	130	142
Apr-06	0.054	0.060	0.046	5.88	2	2	4.64	1.5	2	7.2	7.3	2.5	1.5	0.5	0.398	110	74
May-06	0.053	0.046	0.046	5.64	2.85	3.3	5.48	15.6	24	7.1	7.4	1.5	2	0.5	0.0835	115	71
Jun-06	0.052	0.043	0.038	5.47	3.55	3.6	5.95	11.7	15	7.2	7.3	1.65	3.5	0.5	0.12	192	85
Jul-06	0.052	0.044	0.049	5.26	2.85	3.3	5.88	5.1	5.2	7.2	7.3	1.6	1	0.5	0.417	120	80
Sep-06	0.062	0.053	0.073	4.83	2	2.1	6.46	11.8	15	7	7.3	1	i	0.5	1 29	91.5	1150
Oct-06	0.061	0.060	0.057	4.61	2.02	2.04	6.23	3.5	3.6	7	7.2	1	î	0.5	2.03	151.5	110.8
Nov-06	0.059	0.057	0.041	4 4 1	2	2	6.27	6.65	10.3	6.9	73	11	2.5	0.5	4 76	312	351
Dec-06	0.057	0.043	0.032	4.29	2.85	2.87	6.01	3	3.2	7	7.3	1	1	0.5	1.27	320	467
Jan-07	0.055	0.035	0.032	4.27	4.04	6.09	6.33	10.2	14	6.8	7.2	1	1	0.5	0.587	242	251
Feb-07	0.053	0.031	0.028	4 17	2.98	3.18	7 41	20.4	30	7	7.2	i	1	0.7	0.0814	256	202
Mar-07	0.051	0.029	0.027	4 33	6 37	9.99	7 76	12.07	18.4	7	73	i	i	0.5	0.01	237	159
Apr-07	0.05	0.031	0.039	4 36	4 73	NO DATA	75	4.4	ΝΟΠΑΤΑ	7	74	1	ŝ	0.5	0.0691	224	106
May-07	0.051	0.044	0.066	4.2	2 36	2 72	7 74	4.2	52	71	74	1	÷.	0.5	0.035	270	200
Jun=07	0.052	0.057	0.066	4 47	3 51	3 51	7 27	7 75	10	7	7.5	50	225	0.5	0.3145	221	299
Jul-07	0.051	0.060	0.049	4.78	2	2	7.03	4.25	4 25	71	74	1	1	0.5	1 23	266	230
Aug-07	0.049	0.067	0.087	41	2	2	7.11	8.09	9.67	71	7.5	1	1	0.5	0.42	401	219
Sep-07	0.049	0.063	0.053	3.03	2	2	6.93	4 88	5 33	71	7.4	1	1	0.5	0.01	215	299
Oct-07	0.057	0.076	0.089	3 79	2 19	2 38	4.81	4	6.25	71	74	1	1	0.5	0.562	242	220
Nov-07	0.053	0.068	0.063	3.65	2	2	4.01	34	4.8	7.2	7.4	1	1	0.5	1.695	325	420
Dec-07	0.052	0.067	0.05	3 52	2 05	2 11	4 17	3.87	4.0	7.2	7.6	1	15	0.5	0.0313	326	420
Jan-08	0.052	0.007	0.033	3.40	3.18	4 37	4.18	5.67	6.5	7.2	7.8	1	1.5	0.5	0.463	6 37	214
Feb-08	0.05	0.038	0.03	3.37	2	2	4.10	11	12	73	7.5	1	4.5	0.5	0.405	242	3.14
Mar-08	0.046	0.031	0.03	3.26	2	2	4.08	7 72	7 75	7.5	7.5	1	1	0.5	0.0233	242	202
Apr-08	0.040	0.030	0.031	3.16	2	2	5.57	12 1	12.3	7.2	7.5	1	1	0.5	0.152	251	204
May 08	0.044	0.021	0.031	2.22	2.05	5.9	5.04	12.1	30.9	7.5	7.5	1	1	0.5	0.155	231	313
Jun 08	0.044	0.036	0.047	3.15	2.75	2.41	6.14	9 55	12.3	7.2	7.5		1	0.5	0.037	217	228
Jul 08	0.044	0.030	0.047	21	2.2	2.41	0.14 0.11	5.0	6.9	7.2	7.5	1	1	0.5	0.01	175	246
Jui-08	0.044	0.037	0.034	3.1	2.25	3.1	0.41 9.16	5.75	0.0	7.2	7.5	1	1.5	0.8	0.034	175	70
Aug-08	0.043	0.041	0.001	3.00	2.1	3.4	7.0	5.25	5.5	7	7.4	1.1	3.3	0.6	0.290	1/5	180
Oct 08	0.043	0.041	0.029	3.00	3.05	6.1	7.7	5	5	7.2	7.4	1	2	0.5	0.037	250	630
New 08	0.041	0.030	0.025	3.07	5.05	10.1	7.07	5	5	7.2	7.4	1.1	2.5	0.5	0.0415	215	185
D 08	0.04	0.029	0.033	3.33	6.75	7.1	7.54	0.4	0.5	7.1	7.5	1	2	0.8	0.000	235	284
Dec-08	0.039	0.031	0.034	3.30	5.05	6.4	7.00	9.4	7	7.2	7.0	1	1	0.5	0.023	220	845
Jan-09	0.038	0.034	0.036	2.00	5.95	57	7.57	0.5	67	7.4	7.0	3.9	50	0.5	0.116	293	330
reb-09	0.038	0.030	0.039	3.88	0.05	5.7	7.47	0.0	0.7	7.3	7.0	3.0	1	0.5	0.375	270	132.5
Mar-09	0.038	0.038	0.038	4.27	9.05	9.0	7,02	9.05	10	7.2	7.5	3.4	1.5	0.5	0.0915	260	255
Apr-09	0.038	0.039	0.041	4.75	10	11	9.80	12.5	12.5	7.5	7.5	2	2	0.5	0.0765	335	240
May-09	0.038	0.040	0.04	4.69	4	60	9.92	10.75	16	7.5	7.4	1	2	0.5	0.063	195	315
Jun-09	0.038	0.040	0.038	4.76	5.05	6.6	9.84	8.9	9.3	7.2	7.4	1	1.5	1	0.08	265	215
Jul-09	0.038	0.039	0.038	4.92	0.85	0.0	9.82	10	15	7.2	7.4	2	60.5	1	0.089	270	215
Aug-09	0.038	0.037	0.036	4.71	2.23	2.5	9.49	5.25	3.5	7.2	7.4	2	2	0.8	0.226	185	230
Sep-09	0.039	0.040	0.047	4.58	3.05	4.1	9.10	5.5	0	7.2	7.5	2	2	1	0.425	258	229
Oct-09	0.038	0.039	0.034	4.38	2.03	4.1	9.41	15	8	1.2	7.4	2	2.5	0.5	0.214	174	195.5
NOV-09	0.038	0.042	0.044	4.3	3.33	4.1	9.10	5.01.2	5 011	7.2	7.4	1	1 011	0.8	2.03	124	145
Dec-09	0.038	0.038	0.035	41/	2.05	3.00	0.04	5.005	5.00	7.2	7.4	1	1.00	0.8	0.385	225	165
Jan-10	0.038	0.038	0.036	4.27	2.5	1.5	0.34	5.00	5.00	7.2	1.3	1.00	1.00	1.5	2.55	245	250
reb-10	0.037	0.032	0.025	4.18	3.13	2.0	9.49	21	32	1.2	1.5	100	1.00	0.3	0.18	143	305

#### 2.2.3 Peak Hour Flows

Peak hour flows were determined consideration of the availability of a surge tank and the probable attenuation.

Based on this, the peak hour factor is estimated to be 3.5, attenuated to 1.9 times the average daily flow.

#### 2.3 Effluent Quality

The treated wastewater leaving the plant must meet specific limitations established by the FDEP in the current permit. Table 2.3 shows the current plant performance for the period studied versus the permitted requirements for effluent quality.

#### Table 2.3 Effluent Quality Analysis Sun Lakes Estates

Since February of 2007

Parameter	Result	Units	Limit
AADF	0.053	MGD	0.135
M3MADF	0.076	MGD	
Mo Flow	0.089	MGD	
BOD An Avg	4.92	mg/L	20
BOD Mo Avg	10	mg/L	30
BOD Max	11	mg/L	60
TSS An Avg	9.92	mg/L	20
TSS Mo Avg	21	mg/L	30
TSS Max	32	mg/L	60
p H Min	7		6
p H Max	7.8		8.5
Fecal An Avg	50	#/100 ML	200
Fecal Max	225	#/100 ML	800
Nitrate	5.036	mg/L	12
TRC	0.5	mg/L	0.5

#### 2.4 Design and Current Loadings

The Sun Lakes Estates Wastewater Treatment Plant is an activated sludge wastewater treatment plant operating in the extended aeration mode.

Figure 1.3 at the beginning of this report provides a graphical illustration of the unit process flow scheme.

Table 2.4 lists each unit process along with the associated loading rate with pertinent dimensional or volumetric data. (Volumetric, areas and dimensional data is estimated from information in the manufacturer's catalog data, and also by approximate field measure)

Process design data is also incorporated into table 2.4.

			Curren	t Flow	Design Flow
Influent Characteristics:					
	BOD	mg/L	242		242
	TSS	mg/L	258		258
	TKN	mg/L	40		40
	Max Month	MGD	0.053		0.135
Effluent Targets					
	BOD	mg/L	<20		<20
	TSS	mg/L	<20		<20
	Nitrate	mg/L	<12		<12
	Disinfection			basic	basic
Surge Tank					
	Volume of Tank	Gal	22400		22400
	Vs/Q			0.42	0.17
	Inflow Peak Factor			3.5	3.5
	Design - OutFlow Peak	C-1	9(5)	1.9	1.9
	Theoretical Minimum Vs	Gal	8030		22050
Process Design:					
	Process Mode		E	xt Aer	Ext Aer
	Temp			20	20
	MLSS mg/L			3711	3908
	SRT days			35	11.5

#### Table 2.4 - Process Data

	Current Flow	Design Flow
Yield Coefficient	0.63	0.80
anoxic	0	0
aeration	0.076	0.076
Total Volume MGAL	0.076	0.076
V/Q, hrs.	34.4	13.5
BOD Loading, #/1000 cf	10.5	26.8
Solids, Oxic, Lbs	2352	2477
Solids, Anoxic, Lbs	0	0
MLSS Recirculation, %	0	0
RAS Recycle, %	100	100
RAS mg/L	7421	7817
WAS, lb/day	67	215.42
WAS, gpd	1086	3304
Tank Configuration	series	series

#### Aeration System:

з

Process O2, lb/day	300	691
Diffuser Efficiency, %	6	6
Air Rqd., SCFM	201	463
lb O2/#BOD	2.8	2.5
Air supply, CF/# BOD	2710	2449

Type Aeration	Diffused	Diffused
Number of Eductors	3	3
Return Rate/Eductor, GPM	12.3	31.3
Air Eductors	48.3	78.4
Skimmer Air	16.1	26.1
Air Rqd. RAS:	64	104
Air Rqd. Process:	201	463
Air Rqd.Digester	45	45
Volume Surge	22400	22400
Air Rqd.Surge	90	90
Total Air Rqd.:	400	703
HP Required	16.0	28.1
Hp provided	(2) 20 Hp	(2) 20 Hp

#### **Final Settling:**

1	1
385	385
10	10
16	16
29200	29200
13.2	5.2
1.9	1.9
138	351
	1 385 10 16 29200 13.2 1.9 138

Current Flow	Design Flow
262	666
9	23
12	33
	Current Flow 262 9 12

#### Disinfection:

	Method	Hypochlorination	Hypochlorination
	No. of CCCs	1	1
	Volume EA, gallons	5000	5000
	Total CCC volume est	5000	5000
	Cl2 Residual, mg/L	0.5	0.5
	Cl2 Dose, mg/L	8	8
	Consumption, lb/day	3.54	9.01
	Hypochlorination System		
	Est. Sodium Hypochlorite strength, %	15	15
	Dose required, mg/L	8	8
	Available Chlorine, lb/gal	1.25	1.25
	dose, #/gal	6.68E-05	6.68E-05
	Avg dose, #/day	3.54	9.01
	Avg dose, gal/day	2.8	7.2
	Peak Hour Capacity, gal/day	5	14
	CCC Retention Time		
	@ ADF, minutes	136	53
	@ PHF, minutes	71	28
	Residual * Detention	36	14
	Disinfection Level	Basic	Basic
Aerobic Sludge Digestion:			
Digestion	WAS Flow, gpd	1086	3304
	Total Solids,#/day	67.20	215
	WAS, mg/L	7421	7817
	% Volatile	75	75
	WASv, mg/L	5566	5863
	Total VSS,#/d	50	162
	VSS, #/Digester cf/day	0.03	0.11
	Thick Solids,%		The second second second second second second second second second second second second second second second s
	Digester Vol, gal	11200	11200
	Initial Est.SRT, days	13	4
	Temp, Degrees C	20	20
	VSS Destroyed, %	22.91	13.14
	Avg. Solids, mg/L	7000	7000
	Supernatant Solids,mg/L	300	300
	WAS Fraction Not Destroyed	0.83	0.90
	WAS Fraction in Digester	0.61	0.70
	Supernatant, gpd	418	976
	TSS in Digester, #	654	654

	Current Flow	Design Flow
Total SS Removed, #/d	57	197
Supernatant TSS,#/d	1.0	2.4
Sludge Discharge,#/d	56	194
Sludge Rem/year, DTR	10.2	35.4
Sludge Discharge,gpd	667	2328
Digester SRT, days	11.5	3.3
Sludge Stabiliz. Class	<b< td=""><td><b< td=""></b<></td></b<>	<b< td=""></b<>
Digester HRT, days	10.3	3.4
O2 Rqd, VSS, #/d	23	42
Air, SCFM	19	35
Diffuser Effic.,%	5	5
Air Rqd. Mixing, SCFM	45	45
Design SCFM	45	45

## Land Application

System	
--------	--

ROO1	ROO1
0.053	0.206
297000	297000
6.82	6.82
perc ponds	perc ponds
4x2	.4x2
0.18	0.69
2.00	7.79
	ROO1 0.053 297000 6.82 perc ponds 4x2 0.18 2.00

#### 2.5 Effluent Disposal / Reuse

Effluent from the treatment plant is disposed or reused by percolation evaporation ponds.

The relationship of the effluent disposal system to the treatment facility is shown in the site plan in figure 1.4

The associated loading rates of this system at current and design flows is as follows:

#### Table 2.5 Effluent Disposal\Reuse System

System Type	<b>Application Area</b>		Flow	Loading Rate
		(acres)	(MGD)	(in/wk)
percolation evaporation ponds		6.82	0.206	7.79
			0.063	2.38

Note: 1.9 gpd/sf equals 21.3 in/wk; 5.6 gpd/sf equals 62.9 in/wk.

The hydraulic application area consists of 6.82 acres per permit. The system consists of four dual cell percolation evaporation ponds.

The effluent disposal system has a nominal permitted capacity of 0.206 MGD, annual average flow. It is limited to 0.135 MGD by the permitted capacity of the plant.

#### 2.6 Waste Sludge Disposal or Reuse System

#### 2.6.1 General Information About Rule 62-640, EPA Rule 503

The disposal of waste sludge from domestic wastewater plants in Florida is regulated by the FDEP under their rule 62-640, by the Federal Government under EPA rule 503, and often by local regulation which varies.

The relationship of the rules to each other is complex, but generally, WWTP owners have two ways to comply with rule 62-640 and rule 503. First, if the Owner elects to use a sludge hauler solely to haul his waste sludge to a land application site, the Owner will usually have to have on file with FDEP an Agricultural Use Plan (AUP). In many cases, the Owner will also need to obtain approval from the USEPA for the same site. In the second case, the Owner can enter into a contract with a sludge hauler who holds a permit from the FDEP to haul, treat and dispose of sludge himself. The hauler will have a type of permit known as a Regional Residuals Treatment Facility or Regional residuals Management Facility permit.

The primary difference between the first and second case is that in the first case, the sludge hauler is not permitted by FDEP to treat sludge, and so the Owner will hold the State FDEP AUP and the Federal permit, whereas in the second case, the hauler will usually hold those responsibilities.

Both rule 62-640 and Rule 503 have extensive record keeping and permitting requirements, particularly for facilities that have their sludge removed to an agricultural use site. Basically records include keeping a running total of when sludge is hauled, where, and keeping a running tally on the accumulation of the amount of heavy metals disposed of at the land application site. For plants hauling their sludge to another treatment, matters are significantly simplified, but hauling records are still required.

#### Disposal and Reuse of Waste Sludge From Sun Lakes Estates WWTP. 2.6.2

Estimated sludge removal quantities (dry annual tonnage) is shown below. Sludge from this facility is removed by Shelley's Environmental. Please refer to the process calculations in table 2.4 for information on the SRT and predicted VSS destruction from this facility from the aerobic process alone. Sludge from this facility is hauled to another treatment plant for further stabilization and disposal. The disposition of the sludge is as follows:

#### Table 2.6 Sludge (Residuals) Disposal

dual Treatment

	Direct Land Application	Regional Residual Treatm Facility
Quantity Site/Facility	0 dry-tons/yr	10.2 dry-tons/yr
Name		Shelley's Environmental Systems
Location		Zellwood and Sanford
County		Orange

#### 3.0 Future Conditions - Wastewater Flow Projection

#### 3.1 Unit Waste Generation Rates

The current ADF unit waste generation rate(s) applicable to this facility is gpd per mobile home.

From section 3.1, the annual average daily flow is 0.053 MGD.

There are 263 mobile homes served by this facility at the present.

From this, it is concluded that the unit waste generation rate is 202 gpd per mobile home.

#### 3.2 Future Possible Average Flow

The future possible average flow to this facility is calculated in table 3.2 under the premise that the maximum future or build out flow is equal to the maximum number of units that contribute wastewater times their unit waste generation rate.

#### Table 3.2 Future Possible Average Flow

Type of Unit	#of Units	Unit Waste Generation Rate	<b>Future Flow</b>
mobile home	450	202 gpd per mobile home	0.091 MGD

3.3 Growth Rate

Future growth rates can be predicted from several methods. In general, the major methods are: linear regression of historical flow, local municipal comprehensive plan projections, and site specific knowledge.

In this case, site specific knowledge was used to predict flows using information supplied by the owners. The 263 lots presently occupied represent the bulk of the constructed subdivision and the areas is essentially built out. The owner has additional property which are undeveloped which might bring the number of connected units to 450, but, there are no plans for any such expansion at this time. The population demographics appear stable, and no further growth is expected for the next ten years. Annual average flows are expected to remain about 0.053 MGD.

#### 4.0 Summary and Recommendations

a.

Based on the analysis of the wastewater treatment plant, effluent disposal or reuse system and sludge handling stream, the maximum ratable capacity of the system as a whole is 0.135 MGD, as noted in the foregoing sections.

The effluent disposal system has a nominal permitted capacity of 0.206 MGD, annual average flow. It is limited to 0.135 MGD by the permitted capacity of the plant.

Future maximum capacity actually required for the next five to ten years is anticipated to not exceed 0.053 MGD, annual average basis.

In accordance with 62-600.405 F.A.C. and based on future flow projections and present capacity, the owner of this facility needs to continue to monitor the proper operation of the plant.