

Inflows to ARM Loxahatchee National Wildlife Refuge

07/16/98

Summary

	BMP Performance: 25% (ECP Design)					1965-1995	
	<u>95Base</u>	<u>50Base</u>	<u>ALT-A</u>	<u>ALT-B</u>	<u>ALT-C</u>	<u>ALT-D</u>	<u>A-D13R</u>
Flow (kac-ft/yr)							
Runoff Untrtd	402.2	0.0	0.0	0.0	0.0	0.0	0.0
STA Outflow	0.0	284.6	297.9	297.4	298.2	307.4	307.4
Lake Untrtd	98.1	0.0	0.0	0.0	0.0	0.0	0.0
LEC WS	3.2	23.1	3.8	1.7	1.1	2.1	2.6
ACME	31.2	39.0	39.8	39.8	39.8	39.6	39.6
L8	27.3	0.0	0.0	0.0	0.0	0.0	0.0
Total	562.1	346.6	341.4	338.9	339.1	349.1	349.7
P Load (mtons/yr)							
Runoff Untrtd	90.3	0.0	0.0	0.0	0.0	0.0	0.0
STA Outflow	0.0	17.4	19.2	19.1	19.3	20.9	20.9
Lake Untrtd	12.3	0.0	0.0	0.0	0.0	0.0	0.0
LEC WS	0.5	3.3	0.6	0.3	0.2	0.3	0.4
ACME	1.9	2.4	2.5	2.5	2.5	2.4	2.4
L8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
Total	106.9	23.1	22.2	21.9	21.9	23.7	23.7
P Conc. (ppb)							
Runoff Untrtd	182	0	0	0	0	0	0
STA Outflow	0	50	52	52	52	55	55
Lake Untrtd	102	0	0	0	0	0	0
LEC WS	116	114	121	120	120	118	117
ACME	50	50	50	50	50	50	50
L8	56	0	0	0	0	0	0
Total	154	54	53	52	52	55	55

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95Base		BMP Performance: 25% (ECP Design)			1965-1995
SFWMM		Flow	Load	Conc	
<u>Term</u>	<u>Description</u>	<u>kac-ft/yr</u>	<u>mtons/yr</u>	<u>ppb</u>	<u>Concentration Data Source</u>
RUNS5A	S5A Runoff	207.7	53.6	209	EAA Runoff to S5A
FLIMPW	S352 Lake Release	28.2	4.2	122	Historical - S352 from Lake
352RG	S352 Reg Release	25.1	3.8	122	Historical - S352 from Lake
RUNS6	S6 Runoff	194.6	36.7	153	EAA Runoff to S6
FLIMPH	S351 Lake Release	23.2	2.2	78	Mass Balance
HLSBRG	S351 Lake Release	21.6	2.1	78	Mass Balance
ACMERF	Acme	31.2	1.9	50	Assumed treated to 50 ppb
L8TCA1	L8 Basin	27.3	1.9	56	Historical - L8 to Refuge
WLC352	W. Supply thru S5A *	2.8	0.4	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	0.5	0.0	78	Mass Balance
	Total	562.1	106.9	154	
	Total LEC WS *	3.2	0.5	116	
	Total Exc. LEC WS	558.9	106.5	154	

50Base		BMP Performance: 25% (ECP Design)			1965-1995
SFWMM		Flow	Load	Conc	
<u>Term</u>	<u>Description</u>	<u>kac-ft/yr</u>	<u>mtons/yr</u>	<u>ppb</u>	<u>Concentration Data Source</u>
ST1WQ1	STA-1W Outflow	162.2	11.0	55	Mass Balance
ST1EQ1	STA-1E Outflow	122.4	6.4	43	Mass Balance
ACMERF	Acme	39.0	2.4	50	Assumed treated to 50 ppb
L8TCA1	L8 Basin	0.0	0.0	56	Historical - L8 to Refuge
ST1BYP	STA-1W Bypass	0.0	0.0	209	Mass Balance
WLC352	W. Supply thru S5A *	18.9	2.8	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	4.1	0.4	78	Historical - S351 from Lake
WLES6	Runoff to LEC *	0.0	0.0	163	Mass Balance
	Total	346.6	23.1	54	
	Total LEC WS *	23.1	3.3	114	
	Total Exc. LEC WS	323.5	19.8	50	

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ALT-A		BMP Performance: 25% (ECP Design)			1965-1995
SFWMM		Flow	Load	Conc	
<u>Term</u>	<u>Description</u>	<u>kac-ft/yr</u>	<u>mtons/yr</u>	<u>ppb</u>	<u>Concentration Data Source</u>
ST1WQ1	STA-1W Outflow	167.4	11.7	57	Mass Balance
ST1EQ1	STA-1E Outflow	130.4	7.5	46	Mass Balance
ACMERF	Acme	39.8	2.5	50	Assumed treated to 50 ppb
L8TCA1	L8 Basin	0.0	0.0	56	Historical - L8 to Refuge
ST1BYP	STA-1W Bypass	0.0	0.0	209	Mass Balance
WLC352	W. Supply thru S5A *	3.7	0.6	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	0.1	0.0	78	Historical - S351 from Lake
WLES6	Runoff to LEC *	0.0	0.0	163	Mass Balance
	Total	341.4	22.2	53	
	Total LEC WS *	3.8	0.6	121	
	Total Exc. LEC WS	337.6	21.6	52	

ALT-B		BMP Performance: 25% (ECP Design)			1965-1995
SFWMM		Flow	Load	Conc	
<u>Term</u>	<u>Description</u>	<u>kac-ft/yr</u>	<u>mtons/yr</u>	<u>ppb</u>	<u>Concentration Data Source</u>
ST1WQ1	STA-1W Outflow	166.8	11.7	57	Mass Balance
ST1EQ1	STA-1E Outflow	130.7	7.5	46	Mass Balance
ACMERF	Acme	39.8	2.5	50	Assumed treated to 50 ppb
L8TCA1	L8 Basin	0.0	0.0	56	Historical - L8 to Refuge
ST1BYP	STA-1W Bypass	0.0	0.0	209	Mass Balance
WLC352	W. Supply thru S5A *	1.6	0.2	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	0.1	0.0	78	Historical - S351 from Lake
WLES6	Runoff to LEC *	0.0	0.0	163	Mass Balance
	Total	338.9	21.9	52	
	Total LEC WS *	1.7	0.3	120	
	Total Exc. LEC WS	337.2	21.6	52	

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ALT-C		BMP Performance: 25% (ECP Design)			1965-1995
SFWMM		Flow	Load	Conc	
<u>Term</u>	<u>Description</u>	<u>kac-ft/yr</u>	<u>mtons/yr</u>	<u>ppb</u>	<u>Concentration Data Source</u>
ST1WQ1	STA-1W Outflow	167.5	11.8	57	Mass Balance
ST1EQ1	STA-1E Outflow	130.7	7.5	46	Mass Balance
ACMERF	Acme	39.8	2.5	50	Assumed treated to 50 ppb
L8TCA1	L8 Basin	0.0	0.0	56	Historical - L8 to Refuge
ST1BYP	STA-1W Bypass	0.0	0.0	209	Mass Balance
WLC352	W. Supply thru S5A *	1.0	0.2	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	0.1	0.0	78	Historical - S351 from Lake
WLES6	Runoff to LEC *	0.0	0.0	163	Mass Balance
	Total	339.1	21.9	52	
	Total LEC WS *	1.1	0.2	120	
	Total Exc. LEC WS	338.0	21.7	52	

ALT-D		BMP Performance: 25% (ECP Design)			1965-1995
SFWMM		Flow	Load	Conc	
<u>Term</u>	<u>Description</u>	<u>kac-ft/yr</u>	<u>mtons/yr</u>	<u>ppb</u>	<u>Concentration Data Source</u>
ST1WQ1	STA-1W Outflow	179.6	13.8	62	Mass Balance
ST1EQ1	STA-1E Outflow	127.8	7.1	45	Mass Balance
ACMERF	Acme	39.6	2.4	50	Assumed treated to 50 ppb
L8TCA1	L8 Basin	0.0	0.0	56	Historical - L8 to Refuge
ST1BYP	STA-1W Bypass	0.0	0.0	209	Mass Balance
WLC352	W. Supply thru S5A *	1.8	0.3	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	0.2	0.0	78	Historical - S351 from Lake
WLES6	Runoff to LEC *	0.0	0.0	163	Mass Balance
	Total	349.1	23.7	55	
	Total LEC WS *	2.1	0.3	118	
	Total Exc. LEC WS	347.1	23.4	55	

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A-D13R

BMP Performance: 25% (ECP Design)

1965-1995

Term	Description	Flow kac-ft/yr	Load mtons/yr	Conc ppb	Concentration Data Source
SFWMM					
ST1WQ1	STA-1W Outflow	179.6	13.8	62	Mass Balance
ST1EQ1	STA-1E Outflow	127.8	7.1	45	Mass Balance
ACMERF	Acme	39.6	2.4	50	Assumed treated to 50 ppb
L8TCA1	L8 Basin	0.0	0.0	56	Historical - L8 to Refuge
ST1BYP	STA-1W Bypass	0.0	0.0	209	Mass Balance
WLC352	W. Supply thru S5A *	2.3	0.3	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	0.3	0.0	78	Historical - S351 from Lake
WLES6	Runoff to LEC *	0.0	0.0	163	Mass Balance
	Total	349.7	23.7	55	
	Total LEC WS *	2.6	0.4	117	
	Total Exc. LEC WS	347.1	23.3	54	