

## Inflows to ARM Loxahatchee National Wildlife Refuge

07/16/98

### Summary

	BMP Performance: 25% (ECP Design)					WY 1979-1988	
	<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>
<b>Flow (kac-ft/yr)</b>							
Runoff Untrtd	365.7	0.0	0.0	0.0	0.0	0.0	0.0
STA Outflow	0.0	277.5	287.3	287.1	287.2	291.7	291.7
Lake Untrtd	98.7	0.0	0.0	0.0	0.0	0.0	0.0
LEC WS	4.2	17.0	0.3	0.2	0.0	0.2	0.7
ACME	33.4	41.2	41.9	42.0	42.0	41.8	41.8
L8	17.3	0.0	0.0	0.0	0.0	0.0	0.0
Total	519.3	335.7	329.5	329.2	329.2	333.6	334.1
<b>P Load (mtons/yr)</b>							
Runoff Untrtd	82.3	0.0	0.0	0.0	0.0	0.0	0.0
STA Outflow	0.0	16.1	17.5	17.4	17.4	18.3	18.3
Lake Untrtd	12.4	0.0	0.0	0.0	0.0	0.0	0.0
LEC WS	0.6	2.4	0.0	0.0	0.0	0.0	0.1
ACME	2.1	2.5	2.6	2.6	2.6	2.6	2.6
L8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
Total	98.5	21.1	20.1	20.0	20.0	20.9	21.0
<b>P Conc. (ppb)</b>							
Runoff Untrtd	182	0	0	0	0	0	0
STA Outflow	0	47	49	49	49	51	51
Lake Untrtd	102	0	0	0	0	0	0
LEC WS	115	115	122	122	0	122	116
ACME	50	50	50	50	50	50	50
L8	56	0	0	0	0	0	0
Total	154	51	49	49	49	51	51

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<b>95Base</b>		BMP Performance: 25% (ECP Design)			WY 1979-1988
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	191.4	49.4	209	EAA Runoff to S5A
FLIMPW	S352 Lake Release	31.8	4.8	122	Historical - S352 from Lake
352RG	S352 Reg Release	21.6	3.3	122	Historical - S352 from Lake
RUNS6	S6 Runoff	174.3	32.9	153	EAA Runoff to S6
FLIMPH	S351 Lake Release	25.8	2.5	78	Mass Balance
HLSBRG	S351 Lake Release	19.6	1.9	78	Mass Balance
ACMERF	Acme	33.4	2.1	50	Assumed treated to 50 ppb
L8TCA1	L8 Basin	17.3	1.2	56	Historical - L8 to Refuge
WLC352	W. Supply thru S5A *	3.5	0.5	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	0.7	0.1	78	Mass Balance
	Total	519.3	98.5	154	
	Total LEC WS *	4.2	0.6	115	
	Total Exc. LEC WS	515.1	98.0	154	

<b>50Base</b>		BMP Performance: 25% (ECP Design)			WY 1979-1988
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	153.2	9.5	50	Mass Balance
ST1EQ1	STA-1E Outflow	124.3	6.7	43	Mass Balance
ACMERF	Acme	41.2	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 *	14.2	2.1	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	2.9	0.3	78	Historical - S351 from Lake
WLES6	Runoff to LEC *	0.0	0.0	163	Mass Balance
	Total	335.7	21.1	51	
	Total LEC WS *	17.0	2.4	115	
	Total Exc. LEC WS	318.7	18.7	47	

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<b>ALT-A</b>		BMP Performance: 25% (ECP Design)			WY 1979-1988
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	155.3	9.8	51	Mass Balance
ST1EQ1	STA-1E Outflow	132.0	7.7	47	Mass Balance
ACMERF	Acme	41.9	2.6	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 *	0.3	0.0	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	0.0	0.0	78	Historical - S351 from Lake
WLES6	Runoff to LEC *	0.0	0.0	163	Mass Balance
	Total	329.5	20.1	49	
	Total LEC WS *	0.3	0.0	122	
	Total Exc. LEC WS	329.2	20.0	49	

<b>ALT-B</b>		BMP Performance: 25% (ECP Design)			WY 1979-1988
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	155.1	9.8	51	Mass Balance
ST1EQ1	STA-1E Outflow	132.0	7.7	47	Mass Balance
ACMERF	Acme	42.0	2.6	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 *	0.2	0.0	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	0.0	0.0	78	Historical - S351 from Lake
WLES6	Runoff to LEC *	0.0	0.0	163	Mass Balance
	Total	329.2	20.0	49	
	Total LEC WS *	0.2	0.0	122	
	Total Exc. LEC WS	329.1	20.0	49	

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<b>ALT-C</b>		BMP Performance: 25% (ECP Design)			WY 1979-1988
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	155.2	9.8	51	Mass Balance
ST1EQ1	STA-1E Outflow	132.0	7.7	47	Mass Balance
ACMERF	Acme	42.0	2.6	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 *	0.0	0.0	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	0.0	0.0	78	Historical - S351 from Lake
WLES6	Runoff to LEC *	0.0	0.0	163	Mass Balance
	Total	329.2	20.0	49	
	Total LEC WS *	0.0	0.0	0	
	Total Exc. LEC WS	329.2	20.0	49	

<b>ALT-D</b>		BMP Performance: 25% (ECP Design)			WY 1979-1988
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	167.9	11.7	57	Mass Balance
ST1EQ1	STA-1E Outflow	123.8	6.6	43	Mass Balance
ACMERF	Acme	41.8	2.6	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 *	0.2	0.0	122	Historical - S352 from Lake
WL2351	W. Supply thru S6*	0.0	0.0	78	Historical - S351 from Lake
WLES6	Runoff to LEC *	0.0	0.0	163	Mass Balance
	Total	333.6	20.9	51	
	Total LEC WS *	0.2	0.0	122	
	Total Exc. LEC WS	333.5	20.9	51	

### Inflows to ARM Loxahatchee National Wildlife Refuge

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**A-D13R**

BMP Performance: 25% (ECP Design)

WY 1979-1988

Term	Description	Flow kac-ft/yr	Load mtons/yr	Conc ppb	Concentration Data Source
ST1WQ1	STA-1W Outflow	168.0	11.8	57	Mass Balance
ST1EQ1	STA-1E Outflow	123.7	6.6	43	Mass Balance
ACMERF	Acme	41.8	2.6	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 *	0.6	0.1	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	334.1	21.0	51	
	Total LEC WS *	0.7	0.1	116	
	Total Exc. LEC WS	333.5	20.9	51	