

# Appendix 3C-2: Summary of Annual Flows and Total Phosphorus Loads by Structure for Water Year 2007

Florida Department of Environmental Protection

**Table 1.** Annual flows and total phosphorus loads by structure for Water Year 2007.

## Into STA-1 Inflow Basin

Structure	Flow	Phosphorus	
	1000 ac-ft	Load (kg)	FWMC (ppb)
S5A_P	180.556	53,614	241
<i>S5A from EAA</i>	<i>155.444</i>	<i>47,146</i>	<i>246</i>
<i>S5A from East Beach</i>	<i>9.536</i>	<i>4,276</i>	<i>364</i>
<i>S5A from Lake</i>	<i>11.233</i>	<i>1,531</i>	<i>111</i>
<i>S5AW from Lake</i>	<i>0.210</i>	<i>32</i>	<i>125</i>
<i>S5AW from L8 Basin</i>	<i>4.134</i>	<i>628</i>	<i>123</i>
<i>Mass Balance Adjustment</i>	<i>0.000</i>	<i>0</i>	<i>0</i>
S5AS	0.000	0	n/a
<i>S5AS from Lake</i>	<i>0.000</i>	<i>0</i>	
<i>S5AS from L8 Basin</i>	<i>0.000</i>	<i>0</i>	
G300	0.017	2	91
G301	63.044	4,055	52
G311	7.823	1,189	123
<b>Total</b>	<b>251.440</b>	<b>58,860</b>	<b>190</b>

## From STA-1 Inflow Basin

Structure	Flow	Phosphorus	
	1000 ac-ft	Load (kg)	FWMC (ppb)
S-5AS	94.750	10,990	94
<i>From S-5A</i>	<i>23.512</i>	<i>4,662</i>	<i>161</i>
<i>from EAA</i>	<i>20.242</i>	<i>4,100</i>	<i>164</i>
<i>from East Beach</i>	<i>1.242</i>	<i>372</i>	<i>243</i>
<i>from Lake</i>	<i>1.490</i>	<i>136</i>	<i>74</i>
<i>from L8 Basin</i>	<i>0.538</i>	<i>55</i>	<i>82</i>
<i>From WCA-1</i>	<i>56.957</i>	<i>3,597</i>	<i>51</i>
<i>From G-311</i>	<i>4.488</i>	<i>476</i>	<i>86</i>
<i>Mass Balance Adjustment</i>	<i>-8.583</i>	<i>-2,156</i>	
Net S-5AS	86.166	8,834	83
G-300	0.000	0	n/a
G-301	0.000	0	n/a
G-302	121.698	41,511	277
<i>From S-5A</i>	<i>109.481</i>	<i>35740</i>	<i>265</i>
<i>from EAA</i>	<i>94.255</i>	<i>31428</i>	<i>270</i>
<i>from East Beach</i>	<i>5.782</i>	<i>2851</i>	<i>400</i>
<i>from Lake</i>	<i>6.938</i>	<i>1042</i>	<i>122</i>
<i>from L8 Basin</i>	<i>2.507</i>	<i>418</i>	<i>135</i>
<i>From WCA-1</i>	<i>3.536</i>	<i>220</i>	<i>50</i>
<i>From G-311</i>	<i>2.423</i>	<i>281</i>	<i>94</i>
<i>Mass Balance Adjustment</i>	<i>-4.705</i>	<i>-4899</i>	
Net G-302	116.993	36,613	217
G-311	54.689	22,504	334
<i>From S-5A</i>	<i>47.562</i>	<i>13212</i>	<i>225</i>
<i>from EAA</i>	<i>40.947</i>	<i>11,618</i>	<i>230</i>
<i>from East Beach</i>	<i>2.512</i>	<i>1,054</i>	<i>340</i>
<i>from Lake</i>	<i>3.014</i>	<i>385</i>	<i>104</i>
<i>from L8 Basin</i>	<i>1.089</i>	<i>155</i>	<i>115</i>
<i>From WCA-1</i>	<i>0.020</i>	<i>0</i>	<i>1</i>
<i>Mass Balance Adjustment</i>	<i>-6.409</i>	<i>-9091</i>	
Net G-311	48.280	13,413	163
<b>Total</b>	<b>251.440</b>	<b>58,860</b>	<b>190</b>

Table 1. Continued.

## Into WCA-1

Structure	Flow	Phosphorus	
	1000 ac-ft	Load (kg)	FWMC (ppb)
G300 & G301	0.000	0	n/a
<i>from EAA</i>	0.000	0	n/a
<i>from East Beach</i>	0.000	0	n/a
<i>from Lake</i>	0.000	0	n/a
<i>from L8 Basin</i>	0.000	0	n/a
<i>From WCA1</i>	0.000	0	n/a
<i>from G311</i>	0.000	0	n/a
<i>Mass Balance Adjustment</i>	0.000	0	
S362 (from STA-1E)	97.818	8,622	71
<i>from EAA</i>	39.975	3,523	71
<i>from East Beach</i>	2.452	216	71
<i>from Lake</i>	2.948	260	71
<i>from L8 Basin</i>	6.001	529	71
<i>From WCA1</i>	2.574	227	71
<i>from G311</i>	0.201	18	71
<i>C51W</i>	37.998	3,349	71
<i>From S361</i>	7.600	670	71
<i>Mass Balance Adjustment</i>	-1.932	-170	71
G251 (from STA-1W)	17.905	3,276	148
<i>from EAA</i>	14.425	2,639	148
<i>from East Beach</i>	0.885	162	148
<i>from Lake</i>	1.062	194	148
<i>from L8 Basin</i>	0.384	70	148
<i>From WCA1</i>	0.541	99	148
<i>from G311</i>	0.371	68	148
<i>Mass Balance Adjustment</i>	0.238	21	71
G310 (from STA-1W)	108.341	15,217	114
<i>from EAA</i>	87.284	12,260	114
<i>from East Beach</i>	5.354	752	114
<i>from Lake</i>	6.425	902	114
<i>from L8 Basin</i>	2.321	326	114
<i>From WCA1</i>	3.275	460	114
<i>from G311</i>	2.244	315	114
<i>Mass Balance Adjustment</i>	1.438	202	114
ACME1 (from Basin B)	13.611	1,968	117
ACME2 (from Basin B)	12.711	2,217	141
<b>Total</b>	<b>250.387</b>	<b>31,299</b>	<b>101</b>

## From WCA-1

Structure	Flow	Phosphorus	
	1000 ac-ft	Load (kg)	FWMC (ppb)
S10A	40.068	1,501	30
S10C	45.354	3,706	66
S10D	44.646	6,051	110
S39	19.701	511	21
G300	0.017	2	91
G301	63.044	4,055	52
G94A	2.057	415	163
G94B	3.909	159	33
G94C	13.359	482	29
<b>Total</b>	<b>232.155</b>	<b>16,882</b>	<b>59</b>

Table 1. Continued.

## Into WCA-2

Structure	Flow	Phosphorus	
	1000 ac-ft	Load (kg)	FWMC (ppb)
G335 (from STA-2)	217.572	11008	41
<i>from EAA</i>	189.383	9,582	41
<i>from East Beach</i>	18.859	954	41
<i>from Lake</i>	9.329	472	41
<i>Mass Balance Adjustment</i>	0.000	-0.162	41
S7	236.606	6,044	21
<i>from STA 3/4</i>	223.682	3,587	21
<i>From Lake O</i>	6.810	176	21
<i>from EAA</i>	202.375	5,242	21
<i>From C-139</i>	2.966	77	21
<i>From SFCD</i>	8.175	212	21
<i>From SSDD</i>	3.356	87	21
From diversion (G371)	12.923	2,457	154
<i>from Lake O</i>	11.619	2,207	154
<i>from EAA</i>	1.304	248	154
<i>Mass Balance Adjustment</i>	0.000	0	154
S10A (from WCA1)	40.068	1,501	30
S10C (from WCA1)	45.354	3,706	66
S10D (from WCA1)	44.646	6,051	110
N. Springs Improv. District	0.000	0	n/a
<b>Total</b>	<b>584.246</b>	<b>28310</b>	<b>39</b>

## From WCA-2

Structure	Flow	Phosphorus	
	1000 ac-ft	Load (kg)	FWMC (ppb)
S7	60.972	1,618	22
S11A (from WCA2)	151.877	1,628	9
S11B (from WCA2)	114.40	1,458	10
S11C (from WCA2)	102.882	1,631	13
S38	23.885	574	19
S34	5.684	152	22
<b>Total</b>	<b>459.697</b>	<b>7,061</b>	<b>12</b>

Table 1. Continued.

## Into WCA-3

Structure	Flow	Phosphorus	
	1000 ac-ft	Load (kg)	FWMC (ppb)
S140 (from L28 Canal)	88.518	5,117	47
S190 (from Feeder Canal)	70.727	18,759	215
L3 Borrow Canal (from C139-G409)	11.530	6,273	441
STA6	16.755	925	45
S8	168.83	8,255	40
<i>From STA3/4</i>	<i>122.862</i>	<i>2,658</i>	<i>18</i>
<i>From Lake O</i>	<i>3.740</i>	<i>83</i>	<i>18</i>
<i>From EAA</i>	<i>111.158</i>	<i>2,468</i>	<i>18</i>
<i>From C-139</i>	<i>1.629</i>	<i>36</i>	<i>18</i>
<i>From SFCD</i>	<i>4.490</i>	<i>100</i>	<i>18</i>
<i>From SSDD</i>	<i>1.844</i>	<i>41</i>	<i>18</i>
<i>From diversion (G373)</i>	<i>14.710</i>	<i>1,081</i>	<i>60</i>
<i>From Lake O</i>	<i>14.320</i>	<i>1,060</i>	<i>60</i>
<i>From EAA</i>	<i>0.011</i>	<i>1</i>	<i>60</i>
<i>From C-139</i>	<i>0.133</i>	<i>10</i>	<i>60</i>
<i>From SFCD</i>	<i>0.158</i>	<i>12</i>	<i>60</i>
<i>From SSDD</i>	<i>0.088</i>	<i>7</i>	<i>60</i>
STA5	31.260	4,516	117
<i>Mass Balance Adjustment</i>	<i>0.000</i>	<i>0</i>	
S150	28.26	644	18
<i>from STA 3/4</i>	<i>26.720</i>	<i>382</i>	<i>12</i>
<i>From Lake O</i>	<i>0.813</i>	<i>12</i>	<i>12</i>
<i>From EAA</i>	<i>24.175</i>	<i>358</i>	<i>12</i>
<i>From C-139</i>	<i>0.354</i>	<i>5</i>	<i>12</i>
<i>From SFCD</i>	<i>0.977</i>	<i>14</i>	<i>12</i>
<i>From SSDD</i>	<i>0.401</i>	<i>6</i>	<i>12</i>
<i>From diversion (G371)</i>	<i>1.544</i>	<i>263</i>	<i>138</i>
<i>from Lake O</i>	<i>1.388</i>	<i>236</i>	<i>138</i>
<i>from EAA</i>	<i>0.156</i>	<i>27</i>	<i>138</i>
<i>Mass Balance Adjustment</i>	<i>0.000</i>	<i>-1</i>	
G404 & G357	22.889	2,099	74
<i>From STA3/4</i>	<i>16.657</i>	<i>678</i>	<i>33</i>
<i>From Lake O to G409</i>	<i>0.507</i>	<i>21</i>	<i>33</i>
<i>From EAA</i>	<i>15.070</i>	<i>613</i>	<i>33</i>
<i>From C-139</i>	<i>0.221</i>	<i>9</i>	<i>33</i>
<i>From SFCD</i>	<i>0.609</i>	<i>25</i>	<i>33</i>
<i>From SSDD</i>	<i>0.250</i>	<i>10</i>	<i>33</i>
<i>From diversion (G373)</i>	<i>1.994</i>	<i>275</i>	<i>112</i>
<i>From Lake O</i>	<i>1.941</i>	<i>268</i>	<i>112</i>
<i>From EAA</i>	<i>0.001</i>	<i>0</i>	<i>112</i>
<i>From C-139</i>	<i>0.018</i>	<i>2</i>	<i>112</i>
<i>From SFCD</i>	<i>0.021</i>	<i>3</i>	<i>112</i>
<i>From SSDD</i>	<i>0.012</i>	<i>2</i>	<i>112</i>
STA5	4.238	1,148	220
<i>Mass Balance Adjustment</i>	<i>0.000</i>	<i>-2</i>	
S11A (from WCA2)	151.877	1,628	9
S11B (from WCA2)	114.40	1,458	10
S11C (from WCA2)	102.882	1,631	13
G123 (from N. New River)	0.000	0	n/a
S9 (from C-11 West)	42.459	999	19
S9A (from C-11 West)	81.353	1,307	13
<b>Total</b>	<b>900.481</b>	<b>49,094</b>	<b>44</b>

## From WCA-3

Structure	Flow	Phosphorus	
	1000 ac-ft	Load (kg)	FWMC (ppb)
S150	7.308	286	32
S8	0.000	0	n/a
S31	0.024	0	10
S337	8.867	258	24
S343A	0.000	0	25
S343B	16.479	284	14
S344	0.000	0	n/a
S12A	42.809	422	8
S12B	46.399	455	8
S12C	99.540	1227	10
S12D	121.779	2017	13
S333 <sup>2</sup>	135.668	2888	17
S355A/S355B	0	0	n/a
<b>Total</b>	<b>478.875</b>	<b>7837</b>	<b>13</b>

Table 1. Continued.

## Into Everglades National Park

Structure	Flow	Phosphorus	
	1000 ac-ft	Load (kg)	FWMC (ppb)
S12A (from WCA3)	42.809	422	8
S12B (from WCA3)	46.399	455	8
S12C (from WCA3)	99.540	1,227	10
S12D (from WCA3)	121.779	2,017	13
S-333-S334 (from WCA3) <sup>3</sup>	97.181	2,187	18
S355A/S355B (from WCA3)	0	0	n/a
S174 (from L-31W)	0.001	0	5
S332D	45.048	375	7
S18C	80.357	693	7
<b>Total</b>	<b>533.115</b>	<b>7,376</b>	<b>11</b>

## From Everglades National Park

Structure	Flow	Phosphorus	
	1000 ac-ft	Load (kg)	FWMC (ppb)
S197	0.000	0	n/a
<b>Total</b>	<b>0.000</b>	<b>0</b>	<b>n/a</b>

FWMC = flow-weighted mean concentration

<sup>1</sup> The values are proportionally calculated based on summation of EAA model outputs of S7 and S8 Basins.

<sup>2</sup> The value included S334 from WCA3.

<sup>3</sup> TP load was calculated using concentration at S333 and flow of S333-S334.