



# FISH RIVER CHAIN OF LAKES CONCEPT PLAN

APRIL 2018

IRVING WOODLANDS, LLC

**Watershed: MUD LAKE**

**Development type: COMM/ECON DEV**

**Sheet # MUD LAKE CD-1**

Land Surface Type or Lot #(s) with description	# of lots or (area_sf) (roads_LF)	Export Coefficient from Table 3.1	Pre-treatment Algal Av. P Export (lbs P/year)	No Treatment or BMP(s)	Post-treatment Algal Av. P Export (lbs P/year)	Description	
COMM/ECON DEV lots Mud Lake CD-1 (HSG C)	10					Mud Lake CD-1 lots	
COMM/ECON DEV lots Mud Lake CD-1 (HSG D)	20					Mud Lake CD-1 lots	
COMM/ECON DEV lot (typical) including buildings, parking, lawns, leach field high export; HSG C soils	7500	0.5	0.086	1	0.086	buildings/roof	
	3500	1.75	0.141	1	0.141	roads/driveways/walks	
	10000	1.25	0.287	1	0.287	parking	
	15000	0.6	0.207	1	0.207	open lawn/septic/grass	
	<b>total</b>			0.720		0.720	Mud Lake CD-1/ per lot (HSG C soils)
<b>total</b>					<b>7.203</b>	Mud Lake CD-1 lots (HSG C soils)	
COMM/ECON DEV lot (typical) including buildings, parking, lawns, leach field high export; HSG D soils	7500	0.5	0.086	1	0.086	buildings/roof	
	3500	1.75	0.141	1	0.141	roads/driveways/walks	
	10000	1.25	0.287	1	0.287	parking	
	15000	0.8	0.275	1	0.275	open lawn/septic/grass	
	<b>total</b>				0.789		Mud Lake CD-1/ per lot (HSG D soils)
<b>total</b>					<b>15.783</b>	Mud Lake CD-1 lots (HSG D soils)	
Mud Lake CD-1 Roads high export; HSG C soils	1500	1.75	1.446	1	1.446	new 24' roads (LF)	
	1500	0.6	0.537	1	0.537	new roads (50' ROW) clearing (LF)	
	<b>total</b>					<b>1.983</b>	
Mud Lake CD-1 Roads high export; HSG D soils	3500	1.75	3.375	1	3.375	new 24' roads (LF)	
	3500	0.8	1.671	1	1.671	new roads (50' ROW) clearing (LF)	
	<b>total</b>					<b>5.046</b>	
Mud Lake CD-1 Export				<b>Total PostPPE (lbs P/year)</b>	<b>30.015</b>		
<b>Mud Lake P allocation assigned budget for CD-1 (export + 10%)</b>						<b>33</b>	



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Watershed: MUD LAKE Development type: COMM/ECON DEV Sheet # MUD LAKE CD-2

Land Surface Type or Lot #(s) with description	# of lots or (area_sf) (roads_LF)	Export Coefficient from Table 3.1	Pre-treatment Algal Av. P Export (lbs P/year)	No Treatment or BMP(s)	Post-treatment Algal Av. P Export (lbs P/year)	Description
COMM/ECON DEV lots Mud Lake CD-2 (HSG D)	5					Mud Lake CD-2 lots
COMM/ECON DEV lot (typical) including buildings, parking, lawns, leach field high export; HSG D soils	7500	0.5	0.086	1	0.086	buildings/roof
	3500	1.75	0.141	1	0.141	roads/driveways/walks
	10000	1.25	0.287	1	0.287	parking
	15000	0.8	0.275	1	0.275	open lawn/septic/grass
	total				0.789	Mud Lake CD-2/ per lot (HSG D soils)
					<b>3.946</b>	Mud Lake CD-2 lots (HSG D soils)
Mud Lake CD-2 Roads high export; HSG D soils	1000	1.75	0.964	1	0.964	new 24' roads (LF)
	1000	0.8	0.478	1	0.478	new roads (50' ROW) clearing (LF)
	total				<b>1.442</b>	
Mud Lake CD-2 Export		<b>Total Pre-PPE (lbs P/year)</b>		<b>Total PostPPE (lbs P/year)</b>	<b>5.387</b>	
<b>Mud Lake P allocation assigned budget for CD-2 (export + 10%)</b>					<b>6</b>	



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<b>SUMMARY</b> <b>FISH RIVER CHAIN OF LAKES CONCEPT PLAN</b> <b>Watershed: <u>MUD LAKE</u></b>					% total Mud Lake budget	
	LOTS	COMMON	ROADS	TOTAL		
Mud Lake CD-1	22.99	NA	7.03	30.01		
Mud Lake CD-2	3.95	NA	1.44	5.39		
<b>MUD LAKE TOTAL P EXPORT (COMM/ECONN DEV LOTS)</b>	26.93		8.47	35.40	34.1%	
Total Mud Lake P budget					103.75	100.0%
<b>total P budget allocated for all Concept Plan Development in Mud Lake watershed</b>				<b>39</b>	<b>37.5%</b>	
Total Mud Lake P Budget (reserve) available for non Concept Plan sources				65	62.5%	