Table MCN-7. McNary 2008 Spill Pattern for fish passage. (Discharge at forebay elevation 339)

(13 March 2008)

SPILLWAY BAY (Gate Opening in feet)																						Total Stops	Total Spill
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		(kcfs)
																		5.5	5.2	1		11.7	20.7
																	1	5.5	5.2	1		12.7	22.7
																	1	5.5	5.2	1	1	13.7	24.7
																	1	5.5	5.2	2	1	14.7	26.6
																	2	5.5	5.2	2	1	15.7	28.5
																1	2	5.5	5.2	2	1	16.7	30.5
																2	2	5.5	5.2	2	1	17.7	32.4
														1		2	2	5.5	5.2	2	1	18.7	34.4
														1		2	2	5.5	5.2	2	2	19.7	36.3
														2		2	2	5.5	5.2	2	2	20.7	38.2
														2	1	2	2	5.5	5.2	2	2	21.7	40.2
														2	2	2	2	5.5	5.2	2	2	22.7	42.1
													1	**2**	**2**	**2**	**2**	**5.5**	**5.2**	**2**	**2**	**23.7**	**44.1**
													2	2	2	2	2	5.5	5.2	2	2	24.7	46.0
										1		2		2	2	2	2	5.5	5.2	2	2	25.7	48.0
										2		2		2	2	2	2	5.5	5.2	2	2	26.7	49.9
								1		2		2		2	2	2	2	5.5	5.2	2	2	27.7	51.9
								2		2		2		2	2	2	2	5.5	5.2	2	2	28.7	53.8
								2	1	2		2		2	2	2	2	5.5	5.2	2	2	29.7	55.8
								2	2	2		2		2	2	2	2	5.5	5.2	2	2	30.7	57.7
								2	2	2		2	1	2	2	2	2	5.5	5.2	2	2	31.7	59.7
								2	**2**	**2**		**2**	**2**	**2**	**2**	**2**	**2**	**5.5**	**5.2**	**2**	**2**	32.7	61.6
								2	2	2	1	2	2	2	2	2	2	5.5	5.2	2	2	33.7	63.6
								2	2	2	2	2	2	2	2	2	2	5.5	5.2	2	2	34.7	65.5
						1		2	2	2	2	2	2	2	2	2	2	5.5	5.2	2	2	35.7	67.5

1) TSWs in bays 19 and 20 have flow equivalent to 5.5 and 5.2 stops at forebay elevation of 339, respectively.

2) Raise gates for TSWs approximately 3 to 5 feet above water surface to ensure free surface and debris passage.

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(13 March 2008)

SPILLWAY BAY (Gate Opening in feet)																						Total Stops	Total Spill
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		(kcfs)
						2		2	2	2	2	2	2	2	2	2	2	5.5	5.2	2	2	36.7	69.4
				1		2		2	2	2	2	2	2	2	2	2	2	5.5	5.2	2	2	37.7	71.4
				2		2		2	2	2	2	2	2	2	2	2	2	5.5	5.2	2	2	38.7	73.3
2.5	2	3.5		2		2		2		2		2	1	2		2	2	5.5	5.2	2	2	39.7	74.8
2.5	2	3.5		2		2		2		2		2	1	2	1	2	2	5.5	5.2	2	2	40.7	76.8
2.5	2	3.5		2	1	2		2		2		2	1	2	1	2	2	5.5	5.2	2	2	41.7	78.8
2.5	2	3.5		2	1	2		2	1	2		2	1	2	1	2	2	5.5	5.2	2	2	42.7	80.8
2.5	2	3.5		2	1	2		2	1	2	1	2	1	2	1	2	2	5.5	5.2	2	2	43.7	82.8
2.5	2	3.5		2	1	2	1	2	1	2	1	2	1	2	1	2	2	5.5	5.2	2	2	44.7	84.8
2.5	2	3.5	1	2	1	2	1	2	1	2	1	2	1	2	1	2	2	5.5	5.2	2	2	45.7	86.8
2.5	2	3.5	1	2	1	2	1	2	1	2	1	2	1	2	1	2	2	5.5	5.2	2.5	2.5	46.7	88.5
2.5	2	3.5	1	2	1	2	1	2	1	2	1	2	2	2	1	2	2	5.5	5.2	2.5	2.5	47.7	90.4
2.5	2	3.5	1	2	1	2	1	2	1	2	1	2	2	2	1	2	2	5.5	5.2	2.5	2.5	47.7	90.4
2.5	2	3.5	1	2	1	2	1	2	1	2	1	2	2	2	2	2	2	5.5	5.2	2.5	2.5	48.7	92.3
2.5	2	3.5	1	2	2	2	1	2	1	2	1	2	2	2	2	2	2	5.5	5.2	2.5	2.5	49.7	94.2
2.5	2	3.5	1	2	2	2	1	2	2	2	1	2	2	2	2	2	2	5.5	5.2	2.5	2.5	50.7	96.1
2.5	2	3.5	1	2	2	2	1	2	2	2	2	2	2	2	2	2	2	5.5	5.2	2.5	2.5	51.7	98.0
2.5	2	3.5	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5.5	5.2	2.5	2.5	52.7	99.9
2.5	2	3.5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5.5	5.2	2.5	2.5	53.7	101.8
2.5	2.5	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5.5	5.2	2.5	2.5	54.7	103.4
2.5	2.5	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	5.5	5.2	3.5	2.5	55.7	105.1
2.5	2.5	4	2	2	2	2	2	2	2	2	2	2	2	2	2.5	2.5	3	5.5	5.2	2.5	2.5	56.7	106.8
2.5	2.5	4	2	2	2	2.5	2	2	2	2.5	2	2	2	2	2.5	2.5	3	5.5	5.2	2.5	2.5	57.7	108.5
2.5	2.5	4	2	2.5	2	2.5	2	2	2	2.5	2	2	2	2.5	2.5	2.5	3	5.5	5.2	2.5	2.5	58.7	110.2
2.5	2.5	4	2	2.5	2	2.5	2	2.5	2	2.5	2	2.5	2	2.5	2.5	2.5	3	5.5	5.2	2.5	2.5	59.7	111.9

1) TSWs in bays 19 and 20 have flow equivalent to 5.5 and 5.2 stops at forebay elevation of 339, respectively.

2) Raise gates for TSWs approximately 3 to 5 feet above water surface to ensure free surface and debris passage.

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		(kcfs)
2.5	2.5	4	2	2.5	2.5	2.5	2	2.5	2.5	2.5	2	2.5	2	2.5	2.5	2.5	3	5.5	5.2	2.5	2.5	60.7	113.6
2.5	2.5	4	2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2	2.5	2.5	2.5	3	5.5	5.2	2.5	2.5	61.7	115.3
2.5	2.5	4	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2	2.5	2.5	2.5	3	5.5	5.2	2.5	2.5	62.7	117.0
2.5	2.5	4	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3	5.5	5.2	3	2.5	63.7	118.7
2.5	2.5	4	3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3	3	3	5.5	5.2	3	2.5	64.7	120.4
2.5	2.5	4.5	3	2.5	2.5	2.5	2.5	2.5	2.5	3	2.5	2.5	2.5	2.5	3	3	3	5.5	5.2	3	2.5	65.7	122.1
2.5	2.5	4.5	3	2.5	2.5	3	2.5	2.5	2.5	3	2.5	3	2.5	2.5	3	3	3	5.5	5.2	3	2.5	66.7	123.8
2.5	2.5	4.5	3	3	2.5	3	2.5	3	2.5	3	2.5	3	2.5	2.5	3	3	3	5.5	5.2	3	2.5	67.7	125.5
2.5	2.5	4.5	3	3	3	3	2.5	3	2.5	3	2.5	3	2.5	3	3	3	3	5.5	5.2	3	2.5	68.7	127.2
2.5	2.5	5	3	3	3	3	2.5	3	3	3	2.5	3	2.5	3	3	3	3	5.5	5.2	3	2.5	69.7	128.8
2.5	2.5	5	3	3	3	3	3	3	3	3	3	3	2.5	3	3	3	3	5.5	5.2	3	2.5	70.7	130.5
3	3	5	3	3	3	3	3	3	3	3	3	3	2.5	3	3	3	3	5.5	5.2	3	2.5	71.7	132.2
3	3	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	5.5	5.2	3	3	72.7	133.9
3	3	5	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	5.5	5.2	3	3	73.7	135.5
3	3	5	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	5.5	5.2	3	3	74.7	137.1
3	4	5	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	5.5	5.2	3	3	75.7	138.7
4	4	5	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	5.5	5.2	3	3	76.7	140.3
4	4	5	3	3	3	4	3	3	3	3	3	3	3	3	3	4	4	5.5	5.2	3	3	77.7	141.9
4	4	5	3	3	3	4	3	3	3	4	3	3	3	3	3	4	4	5.5	5.2	3	3	78.7	143.5
4	4	5	3	4	3	4	3	3	3	4	3	3	3	3	3	4	4	5.5	5.2	3	3	79.7	145.1
4	4	5	3	4	3	4	3	3	3	4	3	3	3	4	3	4	4	5.5	5.2	3	3	80.7	146.7
4	4	5	3	4	3	4	3	4	3	4	3	3	3	4	3	4	4	5.5	5.2	3	3	81.7	148.3
4	4	5	3	4	3	4	3	4	3	4	3	4	3	4	3	4	4	5.5	5.2	3	3	82.7	149.9
4	4	5	3	4	4	4	3	4	3	4	3	4	3	4	3	4	4	5.5	5.2	3	3	83.7	151.5
4	4	5	3	4	4	4	3	4	4	4	3	4	3	4	3	4	4	5.5	5.2	3	3	84.7	153.1

1) TSWs in bays 19 and 20 have flow equivalent to 5.5 and 5.2 stops at forebay elevation of 339, respectively.

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(13 March 2008)

SPILLWAY BAY (Gate Opening in feet)																						Total Stops	Total Spill
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		(kcfs)
4	4	5	3	4	4	4	3	4	4	4	4	4	3	4	3	4	4	5.5	5.2	3	3	85.7	154.7
4	4	5	3	4	4	4	4	4	4	4	4	4	3	4	3	4	4	5.5	5.2	3	3	86.7	156.3
4	4	5	3	4	4	4	4	4	4	4	4	4	3	4	4	4	4	5.5	5.2	3	3	87.7	157.9
4	4	5	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	5.5	5.2	3	3	88.7	159.5
4	4	5	4	4	4	4	4	4	4	4	4	4	3	4	4	4	4	5.5	5.2	4	3	89.7	161.1
4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5.5	5.2	4	3	90.7	162.7
4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5.5	5.2	4	3	91.7	164.3
4	4	5	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5.5	5.2	4	3	92.7	165.9
4	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5.5	5.2	4	3	93.7	167.5
5	5	5	4	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5.5	5.2	4	3	94.7	169.1
5	5	5	4	4	4	5	4	4	4	4	4	4	4	4	4	5	5	5.5	5.2	4	3	95.7	170.7
5	5	5	4	4	4	5	4	4	4	5	4	4	4	4	4	5	5	5.5	5.2	4	3	96.7	172.3
5	5	5	4	5	4	5	4	4	4	5	4	4	4	4	4	5	5	5.5	5.2	4	3	97.7	173.9
5	5	5	4	5	4	5	4	4	4	5	4	4	4	5	4	5	5	5.5	5.2	4	3	98.7	175.5
5	5	5	4	5	4	5	4	5	4	5	4	4	4	5	4	5	5	5.5	5.2	4	3	99.7	177.1
5	5	5	4	5	4	5	4	5	4	5	4	5	4	5	4	5	5	5.5	5.2	4	3	100.7	178.7
5	5	5	4	5	4	5	4	5	4	5	4	5	4	5	4	5	5	5.5	5.2	5	3	101.7	180.3
5	5	5	4	5	5	5	4	5	4	5	4	5	4	5	4	5	5	5.5	5.2	5	3	102.7	181.9
5	5	5	4	5	5	5	4	5	5	5	4	5	4	5	4	5	5	5.5	5.2	5	3	103.7	183.5
5	5	5	4	5	5	5	4	5	5	5	5	5	4	5	4	5	5	5.5	5.2	5	3	104.7	185.1
5	5	5	4	5	5	5	5	5	5	5	5	5	4	5	4	5	5	5.5	5.2	5	3	105.7	186.7
5	5	5	4	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5.5	5.2	5	3	106.7	188.3
5	5	5	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5.5	5.2	5	3	107.7	189.9
5	5	6	5	5	5	5	5	5	5	5	5	5	4	5	5	5	5	5.5	5.2	5	3	108.7	191.5
5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5.5	5.2	5	3	109.7	193.1

1) TSWs in bays 19 and 20 have flow equivalent to 5.5 and 5.2 stops at forebay elevation of 339, respectively.

2) Raise gates for TSWs approximately 3 to 5 feet above water surface to ensure free surface and debris passage.

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(13 March 2008)

SPILLWAY BAY (Gate Opening in feet)																						Total Stops	Total Spill
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22		(kcfs)
5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	5	6	5.5	5.2	5	3	110.7	194.7
5	5	6	5	5	5	5	5	5	5	5	5	5	5	5	5	6	6	5.5	5.2	5	3	111.7	196.3
5	5	6	5	5	5	5	5	5	5	5	5	5	5	6	5	6	6	5.5	5.2	5	3	112.7	197.9
5	5	6	5	5	5	5	5	5	5	5	5	6	5	6	5	6	6	5.5	5.2	5	3	113.7	199.5
5	5	6	5	5	5	5	5	5	5	5	5	6	5	6	6	6	6	5.5	5.2	5	3	114.7	201.1
5	5	6	6	5	5	5	5	5	5	5	5	6	5	6	6	6	6	5.5	5.2	5	3	115.7	202.7
5	5	6	6	5	5	5	5	5	5	5	5	6	5	6	6	6	6	5.5	5.2	6	3	116.7	204.3
5	5	6	6	5	5	5	5	5	5	5	6	6	5	6	6	6	6	5.5	5.2	6	3	117.7	205.9
5	5	6	6	5	5	5	5	5	5	5	5	6	6	6	6	6	6	5.5	5.2	6	4	118.7	207.5
5	5	6	6	6	5	5	5	5	5	5	6	6	6	6	6	6	6	5.5	5.2	6	4	120.7	210.7
5	5	6	6	6	5	6	5	5	5	6	6	6	6	6	6	6	6	5.5	5.2	6	4	122.7	213.9
5	5	6	6	6	6	6	5	6	5	6	6	6	6	6	6	6	6	5.5	5.2	6	4	124.7	217.1
5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5.5	5.2	6	4	126.7	220.3
6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5.5	5.2	6	4	128.7	223.5
6	6	6	6	6	6	6	6	6	6	7	6	7	6	7	6	7	6	5.5	5.2	6	4	132.7	229.9
6	6	6	6	6	6	7	6	7	6	7	6	7	6	7	6	7	6	5.5	5.2	6	4	134.7	233.1
6	6	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	6	5.5	5.2	6	4	136.7	236.3
7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	6	7	7	5.5	5.2	6	4	138.7	239.5
7	6	7	6	7	6	7	6	7	6	7	6	7	7	7	7	7	7	5.5	5.2	6	4	140.7	242.7
7	6	7	6	7	6	7	6	7	7	7	7	7	7	7	7	7	7	5.5	5.2	6	4	142.7	245.9
7	6	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5.5	5.2	6	4	144.7	249.1
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5.5	5.2	6	4	146.7	252.3
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5.5	5.2	6	6	148.7	255.5
7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	5.5	5.2	7	7	150.7	258.7

1) TSWs in bays 19 and 20 have flow equivalent to 5.5 and 5.2 stops at forebay elevation of 339, respectively.

2) Raise gates for TSWs approximately 3 to 5 feet above water surface to ensure free surface and debris passage.