Table 10F. Effluent Limitations – Copper, Total Recoverable for City of Grass Valley, Wastewater Treatment Plant

Hardness (H) in mg/L	200 ≤ H < 250		250 ≤ H < 300		300 ≤ H < 350		350 ≤ H < 400		H ≥ 400	
CV	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL
0.1	130	150	160	180	180	210	210	240	220	250
0.2	130	170	150	200	180	230	200	270	210	280
0.3	120	190	150	220	170	260	190	290	200	310
0.4	120	200	140	240	170	280	190	310	200	330
0.5	110	200	130	240	150	280	170	320	180	340
0.6	98	200	120	240	140	280	160	320	170	340
0.7	91	200	110	240	130	280	150	320	160	340
0.8	86	200	100	240	120	280	140	320	150	340
0.9	81	200	98	240	120	280	130	320	140	340
1.0	78	200	94	240	110	280	130	320	130	340
1.1	75	200	91	240	110	280	120	320	130	340
1.2	73	200	88	240	100	280	120	320	130	340
1.3	71	200	86	240	100	280	110	320	120	340
1.4	69	200	84	240	98	280	110	320	120	340
1.5	68	200	82	240	96	280	110	320	120	340
1.6	67	200	81	240	95	280	110	320	120	340
1.7	66	200	80	240	93	280	110	320	110	340
1.8	65	200	79	240	92	280	110	320	110	340
1.9	65	200	78	240	91	280	100	320	110	340
2.0	64	200	77	240	90	280	100	320	110	340
2.1	63	200	77	240	90	280	100	320	110	340
2.2	63	200	76	240	89	280	100	320	110	340
2.3	63	200	76	240	88	280	100	320	110	340
2.4	62	200	75	240	88	280	100	320	110	340
2.5	62	200	75	240	87	280	100	320	110	340
2.6	61	200	74	240	87	280	99	320	110	340
2.7	61	200	74	240	86	280	99	320	110	340
2.8	61	200	74	240	86	280	98	320	100	340
2.9	61	200	73	240	86	280	98	320	100	340
3.0	60	200	73	240	85	280	98	320	100	340
3.1	60	200	73	240	85	280	97	320	100	340
3.2	60	200	72	240	85	280	97	320	100	340
3.3	60	200	72	240	84	280	96	320	100	340
3.4	59	200	72	240	84	280	96	320	100	340
3.5	59	200	72	240	84	280	96	320	100	340
3.6	59	200	71	240	83	280	94	310	100	330
3.7	59	200	71	240	83	280	93	310	99	330
3.8	59	200	71	240	82	270	92	310	97	330
3.9	58	200	70	240	81	270	91	310	96	320
4.0	58	200	69	230	80	270	90	300	95	320

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Table 11A. Effluent Limitations – Zinc, Total Recoverable for City of Grass Valley, Wastewater Treatment Plant

Hardness (H) in mg/L	0 ≤ H < 5		5 ≤ H < 10		10 ≤ H < 15		15 ≤ H < 20		20 ≤ H < 25	
CV	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL
0.1	7.8	9.0	20	23	30	35	40	47	50	58
0.2	6.8	9.0	17	23	27	35	35	47	44	58
0.3	6.0	9.0	15	23	23	35	31	47	39	58
0.4	5.4	9.0	14	23	21	35	28	47	35	58
0.5	4.9	9.0	12	23	19	35	25	47	31	58
0.6	4.5	9.0	11	23	18	35	23	47	29	58
0.7	4.2	9.0	11	23	16	35	22	47	27	58
0.8	3.9	9.0	10	23	15	35	20	47	25	58
0.9	3.7	9.0	9.5	23	15	35	19	47	24	58
1.0	3.6	9.0	9.1	23	14	35	19	47	23	58
1.1	3.4	9.0	8.7	23	13	35	18	47	22	58
1.2	3.3	9.0	8.5	23	13	35	17	47	21	58
1.3	3.3	9.0	8.3	23	13	35	17	47	21	58
1.4	3.2	9.0	8.1	23	12	35	17	47	20	58
1.5	3.1	9.0	7.9	23	12	35	16	47	20	58
1.6	3.1	9.0	7.8	23	12	35	16	47	20	58
1.7	3.0	9.0	7.7	23	12	35	16	47	19	58
1.8	3.0	9.0	7.6	23	12	35	16	47	19	58
1.9	3.0	9.0	7.5	23	12	35	15	47	19	58
2.0	2.9	9.0	7.4	23	11	35	15	47	19	58
2.1	2.9	9.0	7.4	23	11	35	15	47	19	58
2.2	2.9	9.0	7.3	23	11	35	15	47	19	58
2.3	2.9	9.0	7.3	23	11	35	15	47	18	58
2.4	2.8	9.0	7.2	23	11	35	15	47	18	58
2.5	2.8	9.0	7.2	23	11	35	15	47	18	58
2.6	2.8	9.0	7.1	23	11	35	15	47	18	58
2.7	2.8	9.0	7.1	23	11	35	15	47	18	58
2.8	2.8	9.0	7.1	23	11	35	14	47	18	58
2.9	2.8	9.0	7.0	23	11	35	14	47	18	58
3.0	2.8	9.0	7.0	23	11	35	14	47	18	58
3.1	2.8	9.0	7.0	23	11	35	14	47	18	58
3.2	2.7	9.0	7.0	23	11	35	14	47	18	58
3.3	2.7	9.0	6.9	23	11	35	14	47	18	58
3.4	2.7	9.0	6.9	23	11	35	14	47	18	58
3.5	2.7	9.0	6.9	23	11	35	14	47	17	58
3.6	2.7	9.0	6.9	23	11	35	14	47	17	58
3.7	2.7	9.0	6.8	23	11	35	14	47	17	58
3.8	2.7	9.0	6.8	23	11	35	14	47	17	58
3.9	2.7	9.0	6.8	23	10	35	14	47	17	58
4.0	2.7	9.0	6.8	23	10	35	14	47	17	58

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Table 11B. Effluent Limitations – Zinc, Total Recoverable for City of Grass Valley Wastewater Treatment Plant

Hardness (H) in mg/L	25 ≤ H < 30		30 ≤ H < 35		35 ≤ H < 40		40 ≤ H < 45		45 ≤ H < 50	
CV	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL
0.1	59	69	68	79	77	89	86	99	94	110
0.2	52	69	60	79	67	89	75	99	82	110
0.3	46	69	53	79	60	89	66	99	73	110
0.4	41	69	47	79	53	89	59	99	65	110
0.5	37	69	43	79	48	89	54	99	59	110
0.6	34	69	39	79	45	89	50	99	54	110
0.7	32	69	37	79	41	89	46	99	51	110
0.8	30	69	35	79	39	89	43	99	48	110
0.9	28	69	33	79	37	89	41	99	45	110
1.0	27	69	31	79	35	89	39	99	43	110
1.1	26	69	30	79	34	89	38	99	42	110
1.2	25	69	29	79	33	89	37	99	40	110
1.3	25	69	29	79	32	89	36	99	39	110
1.4	24	69	28	79	32	89	35	99	39	110
1.5	24	69	27	79	31	89	34	99	38	110
1.6	23	69	27	79	30	89	34	99	37	110
1.7	23	69	27	79	30	89	33	99	37	110
1.8	23	69	26	79	30	89	33	99	36	110
1.9	23	69	26	79	29	89	33	99	36	110
2.0	22	69	26	79	29	89	32	99	36	110
2.1	22	69	26	79	29	89	32	99	35	110
2.2	22	69	25	79	29	89	32	99	35	110
2.3	22	69	25	79	28	89	32	99	35	110
2.4	22	69	25	79	28	89	31	99	34	110
2.5	22	69	25	79	28	89	31	99	34	110
2.6	21	69	25	79	28	89	31	99	34	110
2.7	21	69	25	79	28	89	31	99	34	110
2.8	21	69	24	79	28	89	31	99	34	110
2.9	21	69	24	79	28	89	31	99	34	110
3.0	21	69	24	79	27	89	30	99	33	110
3.1	21	69	24	79	27	89	30	99	33	110
3.2	21	69	24	79	27	89	30	99	33	110
3.3	21	69	24	79	27	89	30	99	33	110
3.4	21	69	24	79	27	89	30	99	33	110
3.5	21	69	24	79	27	89	30	99	33	110
3.6	21	69	24	79	27	89	30	99	33	110
3.7	21	69	24	79	27	89	30	99	33	110
3.8	20	69	24	79	27	89	30	99	33	110
3.9	20	69	24	79	27	89	30	99	32	110
4.0	20	69	23	79	26	89	29	99	32	110

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Table 11C. Effluent Limitations – Zinc, Total Recoverable for City of Grass Valley Wastewater Treatment Plant

Hardness (H) in mg/L	50 ≤ H < 55		55 ≤ H < 60		60 ≤ H < 65		65 ≤ H < 70		70 ≤ H < 75	
CV	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL
0.1	100	120	110	130	120	140	130	150	140	160
0.2	90	120	97	130	100	140	110	150	120	160
0.3	79	120	86	130	92	140	98	150	100	160
0.4	71	120	77	130	82	140	88	150	93	160
0.5	64	120	70	130	75	140	80	150	85	160
0.6	59	120	64	130	69	140	73	150	78	160
0.7	55	120	60	130	64	140	68	150	72	160
0.8	52	120	56	130	60	140	64	150	68	160
0.9	49	120	53	130	57	140	61	150	65	160
1.0	47	120	51	130	55	140	58	150	62	160
1.1	45	120	49	130	53	140	56	150	60	160
1.2	44	120	48	130	51	140	55	150	58	160
1.3	43	120	46	130	50	140	53	150	56	160
1.4	42	120	45	130	49	140	52	150	55	160
1.5	41	120	44	130	48	140	51	150	54	160
1.6	41	120	44	130	47	140	50	150	53	160
1.7	40	120	43	130	46	140	49	150	52	160
1.8	39	120	43	130	46	140	49	150	52	160
1.9	39	120	42	130	45	140	48	150	51	160
2.0	39	120	42	130	45	140	48	150	51	160
2.1	38	120	41	130	44	140	47	150	50	160
2.2	38	120	41	130	44	140	47	150	50	160
2.3	38	120	41	130	44	140	47	150	50	160
2.4	38	120	41	130	44	140	46	150	49	160
2.5	37	120	40	130	43	140	46	150	49	160
2.6	37	120	40	130	43	140	46	150	49	160
2.7	37	120	40	130	43	140	46	150	49	160
2.8	37	120	40	130	43	140	46	150	48	160
2.9	37	120	40	130	42	140	45	150	48	160
3.0	36	120	39	130	42	140	45	150	48	160
3.1	36	120	39	130	42	140	45	150	48	160
3.2	36	120	39	130	42	140	45	150	48	160
3.3	36	120	39	130	42	140	45	150	47	160
3.4	36	120	39	130	42	140	44	150	47	160
3.5	36	120	39	130	41	140	44	150	47	160
3.6	36	120	39	130	41	140	44	150	47	160
3.7	36	120	38	130	41	140	44	150	47	160
3.8	35	120	38	130	41	140	44	150	47	160
3.9	35	120	38	130	41	140	44	150	46	160
4.0	35	120	38	130	41	140	44	150	46	160

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Table 11D. Effluent Limitations – Zinc, Total Recoverable for City of Grass Valley Wastewater Treatment Plant

Hardness (H) in mg/L	75 ≤ H < 80		80 ≤ H < 85		85 ≤ H < 90		90 ≤ H < 95		95 ≤ H < 100	
CV	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL
0.1	140	170	150	170	160	180	170	190	170	200
0.2	120	170	130	170	140	180	140	190	150	200
0.3	110	170	120	170	120	180	130	190	130	200
0.4	99	170	100	170	110	180	110	190	120	200
0.5	90	170	94	170	99	180	100	190	110	200
0.6	82	170	87	170	91	180	96	190	100	200
0.7	77	170	81	170	85	180	89	190	93	200
0.8	72	170	76	170	80	180	84	190	88	200
0.9	69	170	72	170	76	180	80	190	83	200
1.0	66	170	69	170	73	180	76	190	80	200
1.1	63	170	67	170	70	180	73	190	77	200
1.2	61	170	65	170	68	180	71	190	74	200
1.3	60	170	63	170	66	180	69	190	73	200
1.4	58	170	62	170	65	180	68	190	71	200
1.5	57	170	60	170	63	180	67	190	70	200
1.6	56	170	59	170	62	180	65	190	68	200
1.7	56	170	59	170	62	180	65	190	67	200
1.8	55	170	58	170	61	180	64	190	67	200
1.9	54	170	57	170	60	180	63	190	66	200
2.0	54	170	57	170	60	180	62	190	65	200
2.1	53	170	56	170	59	180	62	190	65	200
2.2	53	170	56	170	59	180	61	190	64	200
2.3	53	170	55	170	58	180	61	190	64	200
2.4	52	170	55	170	58	180	61	190	63	200
2.5	52	170	55	170	58	180	60	190	63	200
2.6	52	170	54	170	57	180	60	190	63	200
2.7	51	170	54	170	57	180	60	190	62	200
2.8	51	170	54	170	57	180	59	190	62	200
2.9	51	170	54	170	56	180	59	190	62	200
3.0	51	170	53	170	56	180	59	190	62	200
3.1	51	170	53	170	56	180	59	190	61	200
3.2	50	170	53	170	56	180	58	190	61	200
3.3	50	170	53	170	56	180	58	190	61	200
3.4	50	170	53	170	55	180	58	190	61	200
3.5	50	170	52	170	55	180	58	190	60	200
3.6	50	170	52	170	55	180	58	190	60	200
3.7	49	170	52	170	55	180	57	190	60	200
3.8	49	170	52	170	55	180	57	190	60	200
3.9	49	170	52	170	54	180	57	190	60	200
4.0	49	170	52	170	54	180	57	190	60	200

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Table 11E. Effluent Limitations – Zinc, Total Recoverable for City of Grass Valley Wastewater Treatment Plant

Hardness (H) in mg/L	100 ≤ H < 120		120 ≤ H < 140		140 ≤ H < 160		160 ≤ H < 180		180 ≤ H < 200	
CV	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL
0.1	190	220	220	260	250	290	280	320	310	350
0.2	170	220	190	260	220	290	240	320	270	350
0.3	150	220	170	260	190	290	210	320	240	350
0.4	130	220	150	260	170	290	190	320	210	350
0.5	120	220	140	260	160	290	170	320	190	350
0.6	110	220	130	260	140	290	160	320	180	350
0.7	100	220	120	260	130	290	150	320	160	350
0.8	97	220	110	260	130	290	140	320	150	350
0.9	92	220	110	260	120	290	130	320	150	350
1.0	88	220	100	260	110	290	130	320	140	350
1.1	85	220	98	260	110	290	120	320	140	350
1.2	82	220	95	260	110	290	120	320	130	350
1.3	80	220	93	260	100	290	120	320	130	350
1.4	79	220	90	260	100	290	110	320	120	350
1.5	77	220	89	260	100	290	110	320	120	350
1.6	76	220	87	260	99	290	110	320	120	350
1.7	75	220	86	260	97	290	110	320	120	350
1.8	74	220	85	260	96	290	110	320	120	350
1.9	73	220	84	260	95	290	110	320	120	350
2.0	72	220	83	260	94	290	100	320	110	350
2.1	72	220	83	260	93	290	100	320	110	350
2.2	71	220	82	260	93	290	100	320	110	350
2.3	71	220	81	260	92	290	100	320	110	350
2.4	70	220	81	260	91	290	100	320	110	350
2.5	70	220	80	260	91	290	100	320	110	350
2.6	69	220	80	260	90	290	100	320	110	350
2.7	69	220	80	260	90	290	100	320	110	350
2.8	69	220	79	260	90	290	100	320	110	350
2.9	69	220	79	260	89	290	99	320	110	350
3.0	68	220	79	260	89	290	99	320	110	350
3.1	68	220	78	260	88	290	98	320	110	350
3.2	68	220	78	260	88	290	98	320	110	350
3.3	67	220	78	260	88	290	98	320	110	350
3.4	67	220	77	260	87	290	97	320	110	350
3.5	67	220	77	260	87	290	97	320	110	350
3.6	67	220	77	260	87	290	97	320	110	350
3.7	67	220	77	260	87	290	96	320	110	350
3.8	66	220	76	260	86	290	96	320	110	350
3.9	66	220	76	260	86	290	96	320	110	350
4.0	66	220	76	260	86	290	95	320	100	350

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Table 11F. Effluent Limitations – Zinc, Total Recoverable for City of Grass Valley Wastewater Treatment Plant

Hardness (H) in mg/L	200 ≤ H < 250		250 ≤ H < 300		300 ≤ H < 350		350 ≤ H < 400		H ≥ 400	
CV	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL
0.1	350	410	420	480	480	560	540	630	570	660
0.2	310	410	360	480	420	560	470	630	500	660
0.3	270	410	320	480	370	560	420	630	440	660
0.4	240	410	290	480	330	560	380	630	400	660
0.5	220	410	260	480	300	560	340	630	360	660
0.6	200	410	240	480	280	560	310	630	330	660
0.7	190	410	220	480	260	560	290	630	310	660
0.8	180	410	210	480	240	560	270	630	290	660
0.9	170	410	200	480	230	560	260	630	280	660
1.0	160	410	190	480	220	560	250	630	260	660
1.1	160	410	180	480	210	560	240	630	250	660
1.2	150	410	180	480	210	560	230	630	250	660
1.3	150	410	170	480	200	560	230	630	240	660
1.4	140	410	170	480	200	560	220	630	230	660
1.5	140	410	170	480	190	560	220	630	230	660
1.6	140	410	160	480	190	560	210	630	230	660
1.7	140	410	160	480	190	560	210	630	220	660
1.8	140	410	160	480	180	560	210	630	220	660
1.9	130	410	160	480	180	560	210	630	220	660
2.0	130	410	160	480	180	560	200	630	220	660
2.1	130	410	160	480	180	560	200	630	210	660
2.2	130	410	150	480	180	560	200	630	210	660
2.3	130	410	150	480	180	560	200	630	210	660
2.4	130	410	150	480	180	560	200	630	210	660
2.5	130	410	150	480	170	560	200	630	210	660
2.6	130	410	150	480	170	560	200	630	210	660
2.7	130	410	150	480	170	560	200	630	210	660
2.8	130	410	150	480	170	560	190	630	210	660
2.9	130	410	150	480	170	560	190	630	200	660
3.0	130	410	150	480	170	560	190	630	200	660
3.1	120	410	150	480	170	560	190	630	200	660
3.2	120	410	150	480	170	560	190	630	200	660
3.3	120	410	150	480	170	560	190	630	200	660
3.4	120	410	150	480	170	560	190	630	200	660
3.5	120	410	150	480	170	560	190	630	200	660
3.6	120	410	150	480	170	560	190	630	200	660
3.7	120	410	140	480	170	560	190	630	200	660
3.8	120	410	140	480	170	560	190	630	200	660
3.9	120	410	140	480	170	560	190	630	200	660
4.0	120	410	140	480	170	560	190	630	200	660

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iv. **Applicable to Discharges in the Sacramento-San Joaquin Delta.** For discharges to receiving waters within the legal boundaries of the Sacramento-San Joaquin Delta, the priority pollutant effluent limitations, as identified in the Notice of Applicability from the Executive Officer, shall not exceed the effluent limitations in Table 12 below:

Table 12. Effluent Limitations – Priority Pollutants (Receiving Waters in the Sacramento-San Joaquin Delta)

CV	Arsenic, Total Recoverable		Copper, Total Recoverable		Cyanide, Total (as CN)		Zinc, Total Recoverable	
	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL	AMEL	MDEL
0.1	10	12	9.0	10	8.6	10	88	100
0.2	10	13	7.9	10	7.5	10	77	100
0.3	10	15	6.9	10	6.7	10	68	100
0.4	10	17	6.2	10	6.0	10	61	100
0.5	10	18	5.6	10	5.4	10	55	100
0.6	10	20	5.2	10	5.0	10	51	100
0.7	10	22	4.8	10	4.6	10	47	100
0.8	10	23	4.5	10	4.4	10	45	100
0.9	10	24	4.3	10	4.1	10	42	100
1.0	10	25	4.1	10	4.0	10	41	100
1.1	10	26	4.0	10	3.8	10	39	100
1.2	10	27	3.9	10	3.7	10	38	100
1.3	10	28	3.8	10	3.6	10	37	100
1.4	10	28	3.7	10	3.5	10	36	100
1.5	10	29	3.6	10	3.5	10	35	100
1.6	10	29	3.5	10	3.4	10	35	100
1.7	10	30	3.5	10	3.4	10	34	100
1.8	10	30	3.5	10	3.3	10	34	100
1.9	10	30	3.4	10	3.3	10	34	100
2.0	10	31	3.4	10	3.3	10	33	100
2.1	10	31	3.4	10	3.2	10	33	100
2.2	10	31	3.3	10	3.2	10	33	100
2.3	10	31	3.3	10	3.2	10	33	100
2.4	10	32	3.3	10	3.2	10	32	100
2.5	10	32	3.3	10	3.1	10	32	100
2.6	10	32	3.3	10	3.1	10	32	100
2.7	10	32	3.2	10	3.1	10	32	100
2.8	10	32	3.2	10	3.1	10	32	100
2.9	10	32	3.2	10	3.1	10	31	100
3.0	10	33	3.2	10	3.1	10	31	100
3.1	10	33	3.2	10	3.1	10	31	100
3.2	10	33	3.2	10	3.0	10	31	100
3.3	10	33	3.2	10	3.0	10	31	100
3.4	10	33	3.1	10	3.0	10	31	100
3.5	10	33	3.1	10	3.0	10	31	100
3.6	10	33	3.1	10	3.0	10	31	100
3.7	10	33	3.1	10	3.0	10	31	100
3.8	10	34	3.1	10	3.0	10	30	100
3.9	10	34	3.1	10	3.0	10	30	100
4.0	10	34	3.1	10	3.0	10	30	100

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c. **Water Quality-Based Effluent Limitations for Other Constituents of Concern**

To determine the constituents requiring effluent limitations, the Central Valley Water Board will conduct an RPA using the effluent and ambient background data as discussed in section V.C.2.b of the Fact Sheet (Attachment), the screening levels in Attachment C (where applicable), and the pollutant-specific procedures specified in section V.C.3.b of the Fact Sheet (Attachment F). See Attachment C and section V.C.3.b of the Fact Sheet (Attachment F) for additional information regarding the constituent-specific RPA procedures. For constituents that exhibit reasonable potential to cause or contribute to a water quality criterion/objective, the Executive Officer shall indicate the applicable effluent limitations in the Notice of Applicability.

i. **Acute Whole Effluent Toxicity.** Survival of aquatic organisms in 96-hour bioassays of undiluted waste shall be no less than:

(a) 70%, minimum for any one bioassay; and
(b) 90%, median for any three consecutive bioassays.

ii. **Chronic Whole Effluent Toxicity.** The effluent chronic toxicity shall not exceed 1 chronic toxicity units (as 100/NOEC) AND a percent effect of 25 percent at 100 percent effluent, for any endpoint as the median of up to three consecutive chronic toxicity tests within a six week period.

iii. **Chlorine, Total Residual.** For Dischargers that utilize chlorine for disinfection, effluent total residual chlorine shall not exceed:

(a) 0.011 mg/L, as a 4-day average; and
(b) 0.019 mg/L, as a 1-hour average.

iv. **pH**

(a) The pH of all discharges within the Sacramento and San Joaquin River Basins (except Goose Lake in Modoc County) shall at all times be within the range of 6.5 and 8.5. The Executive Officer may specify a lower instantaneous maximum in the Notice of Applicability. Table 13 below is a list of site-specific pH limits that are included in the respective discharger's current individual NPDES permit.

Table 13. Effluent Limitations – pH Site-Specific Requirements for the Sacramento and San Joaquin River Basins

Discharger	Instantaneous Maximum pH Effluent Limitation (standard units)
City of Auburn, Wastewater Treatment Plant	8.0
City of Grass Valley, Wastewater Treatment Plant	
Donner Summit Public Utilities District, Wastewater Treatment Plant	
Nevada County Sanitation District No. 1, Lake of the Pines Wastewater Treatment Plant	
Nevada County Sanitation District No. 1, Lake Wildwood Wastewater Treatment Plant	
Nevada County Sanitation District No. 1, Cascade Shores Wastewater Treatment Plant	
City of Placerville, Hangtown Creek Water Reclamation Facility	8.1
City of Atwater, Atwater Regional Wastewater Treatment Facility	8.2
City of Galt, Wastewater Treatment Plant and Reclamation Facility	

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Discharger	Instantaneous Maximum pH Effluent Limitation (standard units)
El Dorado Irrigation District, Deer Creek Wastewater Treatment Plant	8.3
El Dorado Irrigation District, El Dorado Hills Wastewater Treatment Plant	
University of California, Davis, Main Wastewater Treatment Plant	
City of Roseville, Pleasant Grove Wastewater Treatment Plant	

(b) The pH of all discharges to Goose Lake in Modoc County shall at all times be within the range of 7.5 and 9.5. The Executive Officer may specify a lower instantaneous maximum in the Notice of Applicability.

(c) The pH of all discharges within the Tulare Lake Basin shall at all times be within the range of 6.5 and 8.3. The Executive Officer may specify a lower instantaneous maximum in the Notice of Applicability. Table 14 below is a list of site-specific pH limits that are included in the respective discharger's current individual NPDES permit.

Table 14. Effluent Limitations – pH Site-Specific Requirements for the Tulare Lake Basin

Discharger	Instantaneous Maximum pH Effluent Limitation (standard units)
City of Clovis, Clovis Sewage Treatment and Water Reuse Facility (Discharge Point 002 only)	8.1
City of Clovis, Clovis Sewage Treatment and Water Reuse Facility (Discharge Point 001 only)	8.2

v. **Ammonia**

(a) **Applicable to Dischargers in the Tulare Lake Basin.** Effluent un-ionized ammonia (NH_3) shall not exceed 0.025 mg/L (as N).

(b) **Applicable to All Dischargers.** Effluent total ammonia nitrogen (as N) shall not exceed the applicable effluent limitations in Tables 15A through 15N or Tables 16A through 16D, whichever are more stringent, as specified in the Notice of Applicability.

The effluent limitations in Tables 15A through 15N are based on the 30-day criteria continuous concentration (CCC). The effluent limitations in Tables 15A through 15N applicable to each Discharger shall be determined by calculating the CCC in accordance with the procedures described in section IV.B of Attachment C and calculating the CV of effluent ammonia concentrations.

The effluent limitations in Tables 16A through 16D are based on the 1-hour criteria maximum concentration (CMC). The Central Valley Water Board will evaluate site-specific information to determine the presence or absence of salmonids in the receiving water, including the applicability of the cold freshwater habitat (COLD). If the Central Valley Water Board determines that salmonids are present or potentially present in the receiving water, the effluent limitations based on the CMC shall be selected from Tables 16A through 16B. If the Central Valley Water Board determines that the salmonids are not present in the receiving water, the effluent limitations based on the CMC shall be selected from Tables 16C through 16D. The effluent limitations

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in Tables 16A through 16D applicable to each Discharger shall be determined based on the maximum permitted pH (see pH effluent limitations in section V.A.1.c.iv above) or on the maximum observed effluent pH, whichever is lower, and calculating the CV of effluent ammonia concentrations.

The Discharger may request seasonal effluent limitations for ammonia in the Notice of Intent. The Discharger's request shall specify the requested timeframes for the seasonal limitations (e.g., 1 May through 31 October and 1 November through 30 April) and provide a justification describing why seasonal effluent limitations are necessary and appropriate.

Mass-based average monthly and average weekly effluent limitations for total ammonia nitrogen (as N) shall be established in the Notice of Applicability based on the design average dry weather flow.

Table 15A. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC[1] (mg/L)	0.0 ≤ CCC < 0.1		0.1 ≤ CCC < 0.2		0.2 ≤ CCC < 0.3		0.3 ≤ CCC < 0.4		0.4 ≤ CCC < 0.5	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	0.099	0.12	0.099	0.12	0.20	0.23	0.30	0.35	0.40	0.47
0.2	0.098	0.14	0.098	0.14	0.20	0.27	0.29	0.41	0.39	0.54
0.3	0.096	0.15	0.096	0.15	0.19	0.31	0.29	0.46	0.39	0.62
0.4	0.095	0.17	0.095	0.17	0.19	0.35	0.29	0.52	0.38	0.69
0.5	0.094	0.19	0.094	0.19	0.19	0.38	0.28	0.58	0.38	0.77
0.6	0.093	0.21	0.093	0.21	0.19	0.42	0.28	0.63	0.37	0.84
0.7	0.092	0.22	0.092	0.22	0.18	0.45	0.28	0.67	0.37	0.90
0.8	0.091	0.24	0.091	0.24	0.18	0.48	0.27	0.72	0.36	0.95
0.9	0.089	0.25	0.089	0.25	0.18	0.50	0.27	0.75	0.36	1.00
1.0	0.088	0.26	0.088	0.26	0.18	0.52	0.27	0.78	0.35	1.04
1.1	0.087	0.27	0.087	0.27	0.17	0.54	0.26	0.81	0.35	1.08
1.2	0.086	0.28	0.086	0.28	0.17	0.55	0.26	0.83	0.35	1.10
1.3	0.085	0.28	0.085	0.28	0.17	0.56	0.26	0.84	0.34	1.12
1.4	0.084	0.28	0.084	0.28	0.17	0.57	0.25	0.85	0.34	1.14
1.5	0.083	0.29	0.083	0.29	0.17	0.57	0.25	0.86	0.33	1.14
1.6	0.082	0.29	0.082	0.29	0.16	0.57	0.25	0.86	0.33	1.15
1.7	0.081	0.29	0.081	0.29	0.16	0.57	0.24	0.86	0.33	1.15
1.8	0.080	0.29	0.080	0.29	0.16	0.57	0.24	0.86	0.32	1.15
1.9	0.079	0.29	0.079	0.29	0.16	0.57	0.24	0.86	0.32	1.14
2.0	0.079	0.28	0.079	0.28	0.16	0.57	0.24	0.85	0.31	1.13
2.1	0.078	0.28	0.078	0.28	0.16	0.56	0.23	0.84	0.31	1.12
2.2	0.077	0.28	0.077	0.28	0.15	0.56	0.23	0.83	0.31	1.11
2.3	0.076	0.27	0.076	0.27	0.15	0.55	0.23	0.82	0.30	1.10
2.4	0.075	0.27	0.075	0.27	0.15	0.54	0.23	0.81	0.30	1.08
2.5	0.074	0.27	0.074	0.27	0.15	0.53	0.22	0.80	0.30	1.07
2.6	0.074	0.26	0.074	0.26	0.15	0.53	0.22	0.79	0.29	1.05
2.7	0.073	0.26	0.073	0.26	0.15	0.52	0.22	0.78	0.29	1.04
2.8	0.072	0.26	0.072	0.26	0.14	0.51	0.22	0.77	0.29	1.02
2.9	0.071	0.25	0.071	0.25	0.14	0.50	0.21	0.75	0.29	1.01
3.0	0.071	0.25	0.071	0.25	0.14	0.49	0.21	0.74	0.28	0.99
3.1	0.070	0.24	0.070	0.24	0.14	0.49	0.21	0.73	0.28	0.97
3.2	0.069	0.24	0.069	0.24	0.14	0.48	0.21	0.72	0.28	0.96
3.3	0.068	0.24	0.068	0.24	0.14	0.47	0.21	0.71	0.27	0.94
3.4	0.068	0.23	0.068	0.23	0.14	0.46	0.20	0.69	0.27	0.92
3.5	0.067	0.23	0.067	0.23	0.13	0.45	0.20	0.68	0.27	0.91
3.6	0.066	0.22	0.066	0.22	0.13	0.45	0.20	0.67	0.27	0.89

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CCC[1] (mg/L)	0.0 ≤ CCC < 0.1		0.1 ≤ CCC < 0.2		0.2 ≤ CCC < 0.3		0.3 ≤ CCC < 0.4		0.4 ≤ CCC < 0.5	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
3.7	0.066	0.22	0.066	0.22	0.13	0.44	0.20	0.66	0.26	0.88
3.8	0.065	0.22	0.065	0.22	0.13	0.43	0.20	0.65	0.26	0.86
3.9	0.065	0.21	0.065	0.21	0.13	0.42	0.19	0.64	0.26	0.85
4.0	0.064	0.21	0.064	0.21	0.13	0.42	0.19	0.62	0.26	0.83

1 CCC – Criteria continuous concentration

Table 15B. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	0.5 ≤ CCC < 0.6		0.6 ≤ CCC < 0.7		0.7 ≤ CCC < 0.8		0.8 ≤ CCC < 0.9		0.9 ≤ CCC < 1.0	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	0.49	0.59	0.59	0.70	0.69	0.82	0.79	0.94	0.89	1.1
0.2	0.49	0.68	0.59	0.81	0.68	0.95	0.78	1.1	0.88	1.2
0.3	0.48	0.77	0.58	0.93	0.67	1.1	0.77	1.2	0.87	1.4
0.4	0.48	0.87	0.57	1.0	0.67	1.2	0.76	1.4	0.86	1.6
0.5	0.47	0.96	0.56	1.2	0.66	1.3	0.75	1.5	0.85	1.7
0.6	0.46	1.0	0.56	1.3	0.65	1.5	0.74	1.7	0.84	1.9
0.7	0.46	1.1	0.55	1.3	0.64	1.6	0.73	1.8	0.83	2.0
0.8	0.45	1.2	0.54	1.4	0.63	1.7	0.72	1.9	0.82	2.1
0.9	0.45	1.3	0.54	1.5	0.63	1.8	0.72	2.0	0.81	2.3
1.0	0.44	1.3	0.53	1.6	0.62	1.8	0.71	2.1	0.80	2.3
1.1	0.44	1.3	0.52	1.6	0.61	1.9	0.70	2.2	0.79	2.4
1.2	0.43	1.4	0.52	1.7	0.60	1.9	0.69	2.2	0.78	2.5
1.3	0.43	1.4	0.51	1.7	0.60	2.0	0.68	2.2	0.77	2.5
1.4	0.42	1.4	0.51	1.7	0.59	2.0	0.67	2.3	0.76	2.6
1.5	0.42	1.4	0.50	1.7	0.58	2.0	0.67	2.3	0.75	2.6
1.6	0.41	1.4	0.49	1.7	0.58	2.0	0.66	2.3	0.74	2.6
1.7	0.41	1.4	0.49	1.7	0.57	2.0	0.65	2.3	0.73	2.6
1.8	0.40	1.4	0.48	1.7	0.56	2.0	0.64	2.3	0.72	2.6
1.9	0.40	1.4	0.48	1.7	0.56	2.0	0.64	2.3	0.72	2.6
2.0	0.39	1.4	0.47	1.7	0.55	2.0	0.63	2.3	0.71	2.5
2.1	0.39	1.4	0.47	1.7	0.54	2.0	0.62	2.2	0.70	2.5
2.2	0.38	1.4	0.46	1.7	0.54	1.9	0.61	2.2	0.69	2.5
2.3	0.38	1.4	0.46	1.6	0.53	1.9	0.61	2.2	0.68	2.5
2.4	0.38	1.4	0.45	1.6	0.53	1.9	0.60	2.2	0.68	2.4
2.5	0.37	1.3	0.45	1.6	0.52	1.9	0.59	2.1	0.67	2.4
2.6	0.37	1.3	0.44	1.6	0.51	1.8	0.59	2.1	0.66	2.4
2.7	0.36	1.3	0.44	1.6	0.51	1.8	0.58	2.1	0.66	2.3
2.8	0.36	1.3	0.43	1.5	0.50	1.8	0.58	2.0	0.65	2.3
2.9	0.36	1.3	0.43	1.5	0.50	1.8	0.57	2.0	0.64	2.3
3.0	0.35	1.2	0.42	1.5	0.49	1.7	0.56	2.0	0.63	2.2
3.1	0.35	1.2	0.42	1.5	0.49	1.7	0.56	1.9	0.63	2.2
3.2	0.35	1.2	0.41	1.4	0.48	1.7	0.55	1.9	0.62	2.2
3.3	0.34	1.2	0.41	1.4	0.48	1.6	0.55	1.9	0.62	2.1
3.4	0.34	1.2	0.41	1.4	0.47	1.6	0.54	1.8	0.61	2.1
3.5	0.34	1.1	0.40	1.4	0.47	1.6	0.54	1.8	0.60	2.0
3.6	0.33	1.1	0.40	1.3	0.47	1.6	0.53	1.8	0.60	2.0
3.7	0.33	1.1	0.40	1.3	0.46	1.5	0.53	1.8	0.59	2.0
3.8	0.33	1.1	0.39	1.3	0.46	1.5	0.52	1.7	0.59	1.9
3.9	0.32	1.1	0.39	1.3	0.45	1.5	0.52	1.7	0.58	1.9
4.0	0.32	1.0	0.38	1.2	0.45	1.5	0.51	1.7	0.58	1.9

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Table 15C. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	1.0 ≤ CCC < 1.1		1.1 ≤ CCC < 1.2		1.2 ≤ CCC < 1.3		1.3 ≤ CCC < 1.4		1.4 ≤ CCC < 1.5	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	0.99	1.2	1.1	1.3	1.2	1.4	1.3	1.5	1.4	1.6
0.2	0.98	1.4	1.1	1.5	1.2	1.6	1.3	1.8	1.4	1.9
0.3	0.96	1.5	1.1	1.7	1.2	1.9	1.3	2.0	1.3	2.2
0.4	0.95	1.7	1.0	1.9	1.1	2.1	1.2	2.3	1.3	2.4
0.5	0.94	1.9	1.0	2.1	1.1	2.3	1.2	2.5	1.3	2.7
0.6	0.93	2.1	1.0	2.3	1.1	2.5	1.2	2.7	1.3	2.9
0.7	0.92	2.2	1.0	2.5	1.1	2.7	1.2	2.9	1.3	3.1
0.8	0.91	2.4	1.0	2.6	1.1	2.9	1.2	3.1	1.3	3.3
0.9	0.89	2.5	0.98	2.8	1.1	3.0	1.2	3.3	1.3	3.5
1.0	0.88	2.6	0.97	2.9	1.1	3.1	1.1	3.4	1.2	3.7
1.1	0.87	2.7	0.96	3.0	1.0	3.2	1.1	3.5	1.2	3.8
1.2	0.86	2.8	0.95	3.0	1.0	3.3	1.1	3.6	1.2	3.9
1.3	0.85	2.8	0.94	3.1	1.0	3.4	1.1	3.6	1.2	3.9
1.4	0.84	2.8	0.93	3.1	1.0	3.4	1.1	3.7	1.2	4.0
1.5	0.83	2.9	0.92	3.1	1.0	3.4	1.1	3.7	1.2	4.0
1.6	0.82	2.9	0.91	3.2	0.99	3.4	1.1	3.7	1.2	4.0
1.7	0.81	2.9	0.89	3.2	0.98	3.4	1.1	3.7	1.1	4.0
1.8	0.80	2.9	0.88	3.2	0.96	3.4	1.0	3.7	1.1	4.0
1.9	0.79	2.9	0.87	3.1	0.95	3.4	1.0	3.7	1.1	4.0
2.0	0.79	2.8	0.86	3.1	0.94	3.4	1.0	3.7	1.1	4.0
2.1	0.78	2.8	0.85	3.1	0.93	3.4	1.0	3.6	1.1	3.9
2.2	0.77	2.8	0.85	3.1	0.92	3.3	1.0	3.6	1.1	3.9
2.3	0.76	2.7	0.84	3.0	0.91	3.3	0.99	3.6	1.1	3.8
2.4	0.75	2.7	0.83	3.0	0.90	3.3	0.98	3.5	1.1	3.8
2.5	0.74	2.7	0.82	2.9	0.89	3.2	0.97	3.5	1.0	3.7
2.6	0.74	2.6	0.81	2.9	0.88	3.2	0.96	3.4	1.0	3.7
2.7	0.73	2.6	0.80	2.9	0.87	3.1	0.95	3.4	1.0	3.6
2.8	0.72	2.6	0.79	2.8	0.86	3.1	0.94	3.3	1.0	3.6
2.9	0.71	2.5	0.78	2.8	0.86	3.0	0.93	3.3	1.0	3.5
3.0	0.71	2.5	0.78	2.7	0.85	3.0	0.92	3.2	0.99	3.5
3.1	0.70	2.4	0.77	2.7	0.84	2.9	0.91	3.2	0.98	3.4
3.2	0.69	2.4	0.76	2.6	0.83	2.9	0.90	3.1	0.97	3.3
3.3	0.68	2.4	0.75	2.6	0.82	2.8	0.89	3.1	0.96	3.3
3.4	0.68	2.3	0.75	2.5	0.81	2.8	0.88	3.0	0.95	3.2
3.5	0.67	2.3	0.74	2.5	0.81	2.7	0.87	3.0	0.94	3.2
3.6	0.66	2.2	0.73	2.5	0.80	2.7	0.86	2.9	0.93	3.1
3.7	0.66	2.2	0.72	2.4	0.79	2.6	0.86	2.9	0.92	3.1
3.8	0.65	2.2	0.72	2.4	0.78	2.6	0.85	2.8	0.91	3.0
3.9	0.65	2.1	0.71	2.3	0.78	2.5	0.84	2.8	0.91	3.0
4.0	0.64	2.1	0.70	2.3	0.77	2.5	0.83	2.7	0.90	2.9

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Table 15D. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	1.5 ≤ CCC < 1.6		1.6 ≤ CCC < 1.7		1.7 ≤ CCC < 1.8		1.8 ≤ CCC < 1.9		1.9 ≤ CCC < 2.0	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	1.5	1.8	1.6	1.9	1.7	2.0	1.8	2.1	1.9	2.2
0.2	1.5	2.0	1.6	2.2	1.7	2.3	1.8	2.4	1.9	2.6
0.3	1.4	2.3	1.5	2.5	1.6	2.6	1.7	2.8	1.8	2.9
0.4	1.4	2.6	1.5	2.8	1.6	2.9	1.7	3.1	1.8	3.3
0.5	1.4	2.9	1.5	3.1	1.6	3.3	1.7	3.5	1.8	3.6
0.6	1.4	3.1	1.5	3.3	1.6	3.6	1.7	3.8	1.8	4.0
0.7	1.4	3.4	1.5	3.6	1.6	3.8	1.7	4.0	1.7	4.3
0.8	1.4	3.6	1.4	3.8	1.5	4.1	1.6	4.3	1.7	4.5
0.9	1.3	3.8	1.4	4.0	1.5	4.3	1.6	4.5	1.7	4.8
1.0	1.3	3.9	1.4	4.2	1.5	4.4	1.6	4.7	1.7	5.0
1.1	1.3	4.0	1.4	4.3	1.5	4.6	1.6	4.8	1.7	5.1
1.2	1.3	4.1	1.4	4.4	1.5	4.7	1.6	5.0	1.6	5.2
1.3	1.3	4.2	1.4	4.5	1.4	4.8	1.5	5.0	1.6	5.3
1.4	1.3	4.3	1.3	4.5	1.4	4.8	1.5	5.1	1.6	5.4
1.5	1.2	4.3	1.3	4.6	1.4	4.9	1.5	5.2	1.6	5.4
1.6	1.2	4.3	1.3	4.6	1.4	4.9	1.5	5.2	1.6	5.5
1.7	1.2	4.3	1.3	4.6	1.4	4.9	1.5	5.2	1.5	5.5
1.8	1.2	4.3	1.3	4.6	1.4	4.9	1.4	5.2	1.5	5.4
1.9	1.2	4.3	1.3	4.6	1.4	4.8	1.4	5.1	1.5	5.4
2.0	1.2	4.2	1.3	4.5	1.3	4.8	1.4	5.1	1.5	5.4
2.1	1.2	4.2	1.2	4.5	1.3	4.8	1.4	5.1	1.5	5.3
2.2	1.2	4.2	1.2	4.4	1.3	4.7	1.4	5.0	1.5	5.3
2.3	1.1	4.1	1.2	4.4	1.3	4.7	1.4	4.9	1.4	5.2
2.4	1.1	4.1	1.2	4.3	1.3	4.6	1.4	4.9	1.4	5.1
2.5	1.1	4.0	1.2	4.3	1.3	4.5	1.3	4.8	1.4	5.1
2.6	1.1	4.0	1.2	4.2	1.3	4.5	1.3	4.7	1.4	5.0
2.7	1.1	3.9	1.2	4.2	1.2	4.4	1.3	4.7	1.4	4.9
2.8	1.1	3.8	1.2	4.1	1.2	4.3	1.3	4.6	1.4	4.9
2.9	1.1	3.8	1.1	4.0	1.2	4.3	1.3	4.5	1.4	4.8
3.0	1.1	3.7	1.1	4.0	1.2	4.2	1.3	4.5	1.3	4.7
3.1	1.0	3.6	1.1	3.9	1.2	4.1	1.3	4.4	1.3	4.6
3.2	1.0	3.6	1.1	3.8	1.2	4.1	1.2	4.3	1.3	4.5
3.3	1.0	3.5	1.1	3.8	1.2	4.0	1.2	4.2	1.3	4.5
3.4	1.0	3.5	1.1	3.7	1.2	3.9	1.2	4.2	1.3	4.4
3.5	1.0	3.4	1.1	3.6	1.1	3.9	1.2	4.1	1.3	4.3
3.6	1.0	3.3	1.1	3.6	1.1	3.8	1.2	4.0	1.3	4.2
3.7	0.99	3.3	1.1	3.5	1.1	3.7	1.2	3.9	1.3	4.2
3.8	0.98	3.2	1.0	3.4	1.1	3.7	1.2	3.9	1.2	4.1
3.9	0.97	3.2	1.0	3.4	1.1	3.6	1.2	3.8	1.2	4.0
4.0	0.96	3.1	1.0	3.3	1.1	3.5	1.2	3.7	1.2	4.0

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Table 15E. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	2.0 ≤ CCC < 2.1		2.1 ≤ CCC < 2.2		2.2 ≤ CCC < 2.3		2.3 ≤ CCC < 2.4		2.4 ≤ CCC < 2.5	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	2.0	2.3	2.1	2.5	2.2	2.6	2.3	2.7	2.4	2.8
0.2	2.0	2.7	2.0	2.8	2.1	3.0	2.2	3.1	2.3	3.2
0.3	1.9	3.1	2.0	3.2	2.1	3.4	2.2	3.6	2.3	3.7
0.4	1.9	3.5	2.0	3.6	2.1	3.8	2.2	4.0	2.3	4.2
0.5	1.9	3.8	2.0	4.0	2.1	4.2	2.2	4.4	2.3	4.6
0.6	1.9	4.2	1.9	4.4	2.0	4.6	2.1	4.8	2.2	5.0
0.7	1.8	4.5	1.9	4.7	2.0	4.9	2.1	5.2	2.2	5.4
0.8	1.8	4.8	1.9	5.0	2.0	5.3	2.1	5.5	2.2	5.7
0.9	1.8	5.0	1.9	5.3	2.0	5.5	2.1	5.8	2.1	6.0
1.0	1.8	5.2	1.9	5.5	1.9	5.7	2.0	6.0	2.1	6.3
1.1	1.7	5.4	1.8	5.7	1.9	5.9	2.0	6.2	2.1	6.5
1.2	1.7	5.5	1.8	5.8	1.9	6.1	2.0	6.3	2.1	6.6
1.3	1.7	5.6	1.8	5.9	1.9	6.2	2.0	6.5	2.0	6.7
1.4	1.7	5.7	1.8	6.0	1.9	6.2	1.9	6.5	2.0	6.8
1.5	1.7	5.7	1.7	6.0	1.8	6.3	1.9	6.6	2.0	6.9
1.6	1.6	5.7	1.7	6.0	1.8	6.3	1.9	6.6	2.0	6.9
1.7	1.6	5.7	1.7	6.0	1.8	6.3	1.9	6.6	2.0	6.9
1.8	1.6	5.7	1.7	6.0	1.8	6.3	1.8	6.6	1.9	6.9
1.9	1.6	5.7	1.7	6.0	1.7	6.3	1.8	6.6	1.9	6.8
2.0	1.6	5.7	1.7	5.9	1.7	6.2	1.8	6.5	1.9	6.8
2.1	1.6	5.6	1.6	5.9	1.7	6.2	1.8	6.5	1.9	6.7
2.2	1.5	5.6	1.6	5.8	1.7	6.1	1.8	6.4	1.8	6.7
2.3	1.5	5.5	1.6	5.8	1.7	6.0	1.7	6.3	1.8	6.6
2.4	1.5	5.4	1.6	5.7	1.7	6.0	1.7	6.2	1.8	6.5
2.5	1.5	5.3	1.6	5.6	1.6	5.9	1.7	6.1	1.8	6.4
2.6	1.5	5.3	1.5	5.5	1.6	5.8	1.7	6.1	1.8	6.3
2.7	1.5	5.2	1.5	5.4	1.6	5.7	1.7	6.0	1.7	6.2
2.8	1.4	5.1	1.5	5.4	1.6	5.6	1.7	5.9	1.7	6.1
2.9	1.4	5.0	1.5	5.3	1.6	5.5	1.6	5.8	1.7	6.0
3.0	1.4	4.9	1.5	5.2	1.6	5.4	1.6	5.7	1.7	5.9
3.1	1.4	4.9	1.5	5.1	1.5	5.3	1.6	5.6	1.7	5.8
3.2	1.4	4.8	1.5	5.0	1.5	5.3	1.6	5.5	1.7	5.7
3.3	1.4	4.7	1.4	4.9	1.5	5.2	1.6	5.4	1.6	5.6
3.4	1.4	4.6	1.4	4.9	1.5	5.1	1.6	5.3	1.6	5.5
3.5	1.3	4.5	1.4	4.8	1.5	5.0	1.5	5.2	1.6	5.4
3.6	1.3	4.5	1.4	4.7	1.5	4.9	1.5	5.1	1.6	5.4
3.7	1.3	4.4	1.4	4.6	1.4	4.8	1.5	5.0	1.6	5.3
3.8	1.3	4.3	1.4	4.5	1.4	4.7	1.5	5.0	1.6	5.2
3.9	1.3	4.2	1.4	4.4	1.4	4.7	1.5	4.9	1.6	5.1
4.0	1.3	4.2	1.3	4.4	1.4	4.6	1.5	4.8	1.5	5.0

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Table 15F. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	2.5 ≤ CCC < 2.6		2.6 ≤ CCC < 2.7		2.7 ≤ CCC < 2.8		2.8 ≤ CCC < 2.9		2.9 ≤ CCC < 3.0	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	2.5	2.9	2.6	3.0	2.7	3.2	2.8	3.3	2.9	3.4
0.2	2.4	3.4	2.5	3.5	2.6	3.7	2.7	3.8	2.8	3.9
0.3	2.4	3.9	2.5	4.0	2.6	4.2	2.7	4.3	2.8	4.5
0.4	2.4	4.3	2.5	4.5	2.6	4.7	2.7	4.9	2.8	5.0
0.5	2.3	4.8	2.4	5.0	2.5	5.2	2.6	5.4	2.7	5.6
0.6	2.3	5.2	2.4	5.4	2.5	5.6	2.6	5.9	2.7	6.1
0.7	2.3	5.6	2.4	5.8	2.5	6.1	2.6	6.3	2.7	6.5
0.8	2.3	6.0	2.4	6.2	2.4	6.4	2.5	6.7	2.6	6.9
0.9	2.2	6.3	2.3	6.5	2.4	6.8	2.5	7.0	2.6	7.3
1.0	2.2	6.5	2.3	6.8	2.4	7.0	2.5	7.3	2.6	7.6
1.1	2.2	6.7	2.3	7.0	2.4	7.3	2.4	7.5	2.5	7.8
1.2	2.2	6.9	2.2	7.2	2.3	7.4	2.4	7.7	2.5	8.0
1.3	2.1	7.0	2.2	7.3	2.3	7.6	2.4	7.9	2.5	8.1
1.4	2.1	7.1	2.2	7.4	2.3	7.7	2.4	8.0	2.4	8.2
1.5	2.1	7.2	2.2	7.4	2.2	7.7	2.3	8.0	2.4	8.3
1.6	2.1	7.2	2.1	7.5	2.2	7.8	2.3	8.0	2.4	8.3
1.7	2.0	7.2	2.1	7.5	2.2	7.8	2.3	8.0	2.4	8.3
1.8	2.0	7.2	2.1	7.5	2.2	7.7	2.3	8.0	2.3	8.3
1.9	2.0	7.1	2.1	7.4	2.1	7.7	2.2	8.0	2.3	8.3
2.0	2.0	7.1	2.0	7.4	2.1	7.6	2.2	7.9	2.3	8.2
2.1	1.9	7.0	2.0	7.3	2.1	7.6	2.2	7.9	2.3	8.1
2.2	1.9	6.9	2.0	7.2	2.1	7.5	2.2	7.8	2.2	8.1
2.3	1.9	6.9	2.0	7.1	2.1	7.4	2.1	7.7	2.2	8.0
2.4	1.9	6.8	2.0	7.0	2.0	7.3	2.1	7.6	2.2	7.9
2.5	1.9	6.7	1.9	6.9	2.0	7.2	2.1	7.5	2.2	7.8
2.6	1.8	6.6	1.9	6.8	2.0	7.1	2.1	7.4	2.1	7.6
2.7	1.8	6.5	1.9	6.7	2.0	7.0	2.0	7.3	2.1	7.5
2.8	1.8	6.4	1.9	6.6	1.9	6.9	2.0	7.2	2.1	7.4
2.9	1.8	6.3	1.9	6.5	1.9	6.8	2.0	7.0	2.1	7.3
3.0	1.8	6.2	1.8	6.4	1.9	6.7	2.0	6.9	2.0	7.2
3.1	1.7	6.1	1.8	6.3	1.9	6.6	2.0	6.8	2.0	7.1
3.2	1.7	6.0	1.8	6.2	1.9	6.5	1.9	6.7	2.0	6.9
3.3	1.7	5.9	1.8	6.1	1.8	6.3	1.9	6.6	2.0	6.8
3.4	1.7	5.8	1.8	6.0	1.8	6.2	1.9	6.5	2.0	6.7
3.5	1.7	5.7	1.7	5.9	1.8	6.1	1.9	6.4	1.9	6.6
3.6	1.7	5.6	1.7	5.8	1.8	6.0	1.9	6.2	1.9	6.5
3.7	1.6	5.5	1.7	5.7	1.8	5.9	1.8	6.1	1.9	6.4
3.8	1.6	5.4	1.7	5.6	1.8	5.8	1.8	6.0	1.9	6.3
3.9	1.6	5.3	1.7	5.5	1.7	5.7	1.8	5.9	1.9	6.1
4.0	1.6	5.2	1.7	5.4	1.7	5.6	1.8	5.8	1.9	6.0

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Table 15G. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	3.0 ≤ CCC < 3.1		3.1 ≤ CCC < 3.2		3.2 ≤ CCC < 3.3		3.3 ≤ CCC < 3.4		3.4 ≤ CCC < 3.5	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	3.0	3.5	3.1	3.6	3.2	3.7	3.3	3.9	3.4	4.0
0.2	2.9	4.1	3.0	4.2	3.1	4.3	3.2	4.5	3.3	4.6
0.3	2.9	4.6	3.0	4.8	3.1	4.9	3.2	5.1	3.3	5.2
0.4	2.9	5.2	2.9	5.4	3.0	5.5	3.1	5.7	3.2	5.9
0.5	2.8	5.8	2.9	5.9	3.0	6.1	3.1	6.3	3.2	6.5
0.6	2.8	6.3	2.9	6.5	3.0	6.7	3.1	6.9	3.2	7.1
0.7	2.8	6.7	2.8	7.0	2.9	7.2	3.0	7.4	3.1	7.6
0.8	2.7	7.2	2.8	7.4	2.9	7.6	3.0	7.9	3.1	8.1
0.9	2.7	7.5	2.8	7.8	2.9	8.0	3.0	8.3	3.0	8.5
1.0	2.7	7.8	2.7	8.1	2.8	8.3	2.9	8.6	3.0	8.9
1.1	2.6	8.1	2.7	8.3	2.8	8.6	2.9	8.9	3.0	9.1
1.2	2.6	8.3	2.7	8.5	2.8	8.8	2.8	9.1	2.9	9.4
1.3	2.6	8.4	2.6	8.7	2.7	9.0	2.8	9.3	2.9	9.5
1.4	2.5	8.5	2.6	8.8	2.7	9.1	2.8	9.4	2.9	9.7
1.5	2.5	8.6	2.6	8.9	2.7	9.2	2.7	9.4	2.8	9.7
1.6	2.5	8.6	2.6	8.9	2.6	9.2	2.7	9.5	2.8	9.8
1.7	2.4	8.6	2.5	8.9	2.6	9.2	2.7	9.5	2.8	9.8
1.8	2.4	8.6	2.5	8.9	2.6	9.2	2.7	9.5	2.7	9.7
1.9	2.4	8.6	2.5	8.8	2.5	9.1	2.6	9.4	2.7	9.7
2.0	2.4	8.5	2.4	8.8	2.5	9.1	2.6	9.3	2.7	9.6
2.1	2.3	8.4	2.4	8.7	2.5	9.0	2.6	9.3	2.6	9.5
2.2	2.3	8.3	2.4	8.6	2.5	8.9	2.5	9.2	2.6	9.4
2.3	2.3	8.2	2.4	8.5	2.4	8.8	2.5	9.1	2.6	9.3
2.4	2.3	8.1	2.3	8.4	2.4	8.7	2.5	8.9	2.6	9.2
2.5	2.2	8.0	2.3	8.3	2.4	8.6	2.5	8.8	2.5	9.1
2.6	2.2	7.9	2.3	8.2	2.4	8.4	2.4	8.7	2.5	9.0
2.7	2.2	7.8	2.3	8.0	2.3	8.3	2.4	8.6	2.5	8.8
2.8	2.2	7.7	2.2	7.9	2.3	8.2	2.4	8.4	2.4	8.7
2.9	2.1	7.5	2.2	7.8	2.3	8.0	2.4	8.3	2.4	8.5
3.0	2.1	7.4	2.2	7.7	2.3	7.9	2.3	8.2	2.4	8.4
3.1	2.1	7.3	2.2	7.5	2.2	7.8	2.3	8.0	2.4	8.3
3.2	2.1	7.2	2.1	7.4	2.2	7.6	2.3	7.9	2.4	8.1
3.3	2.1	7.1	2.1	7.3	2.2	7.5	2.3	7.8	2.3	8.0
3.4	2.0	6.9	2.1	7.2	2.2	7.4	2.2	7.6	2.3	7.9
3.5	2.0	6.8	2.1	7.0	2.1	7.3	2.2	7.5	2.3	7.7
3.6	2.0	6.7	2.1	6.9	2.1	7.1	2.2	7.4	2.3	7.6
3.7	2.0	6.6	2.0	6.8	2.1	7.0	2.2	7.2	2.2	7.5
3.8	2.0	6.5	2.0	6.7	2.1	6.9	2.2	7.1	2.2	7.3
3.9	1.9	6.4	2.0	6.6	2.1	6.8	2.1	7.0	2.2	7.2
4.0	1.9	6.2	2.0	6.5	2.1	6.7	2.1	6.9	2.2	7.1

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Table 15H. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	3.5 ≤ CCC < 3.6		3.6 ≤ CCC < 3.7		3.7 ≤ CCC < 3.8		3.8 ≤ CCC < 3.9		3.9 ≤ CCC < 4.0	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	3.5	4.1	3.6	4.2	3.7	4.3	3.8	4.4	3.9	4.6
0.2	3.4	4.7	3.5	4.9	3.6	5.0	3.7	5.1	3.8	5.3
0.3	3.4	5.4	3.5	5.6	3.6	5.7	3.7	5.9	3.8	6.0
0.4	3.3	6.1	3.4	6.2	3.5	6.4	3.6	6.6	3.7	6.8
0.5	3.3	6.7	3.4	6.9	3.5	7.1	3.6	7.3	3.7	7.5
0.6	3.2	7.3	3.3	7.5	3.4	7.7	3.5	7.9	3.6	8.2
0.7	3.2	7.9	3.3	8.1	3.4	8.3	3.5	8.5	3.6	8.8
0.8	3.2	8.4	3.3	8.6	3.4	8.8	3.4	9.1	3.5	9.3
0.9	3.1	8.8	3.2	9.0	3.3	9.3	3.4	9.5	3.5	9.8
1.0	3.1	9.1	3.2	9.4	3.3	9.7	3.4	9.9	3.4	10
1.1	3.1	9.4	3.1	9.7	3.2	10	3.3	10	3.4	10
1.2	3.0	9.6	3.1	9.9	3.2	10	3.3	10	3.4	11
1.3	3.0	9.8	3.1	10	3.2	10	3.2	11	3.3	11
1.4	2.9	9.9	3.0	10	3.1	11	3.2	11	3.3	11
1.5	2.9	10	3.0	10	3.1	11	3.2	11	3.2	11
1.6	2.9	10	3.0	10	3.0	11	3.1	11	3.2	11
1.7	2.8	10	2.9	10	3.0	11	3.1	11	3.2	11
1.8	2.8	10	2.9	10	3.0	11	3.1	11	3.1	11
1.9	2.8	10	2.9	10	2.9	11	3.0	11	3.1	11
2.0	2.8	9.9	2.8	10	2.9	10	3.0	11	3.1	11
2.1	2.7	9.8	2.8	10	2.9	10	3.0	11	3.0	11
2.2	2.7	9.7	2.8	10	2.8	10	2.9	11	3.0	11
2.3	2.7	9.6	2.7	9.9	2.8	10	2.9	10	3.0	11
2.4	2.6	9.5	2.7	9.8	2.8	10	2.9	10	2.9	11
2.5	2.6	9.4	2.7	9.6	2.8	9.9	2.8	10	2.9	10
2.6	2.6	9.2	2.6	9.5	2.7	9.7	2.8	10	2.9	10
2.7	2.5	9.1	2.6	9.3	2.7	9.6	2.8	9.9	2.8	10
2.8	2.5	8.9	2.6	9.2	2.7	9.5	2.7	9.7	2.8	10
2.9	2.5	8.8	2.6	9.0	2.6	9.3	2.7	9.6	2.8	9.8
3.0	2.5	8.7	2.5	8.9	2.6	9.1	2.7	9.4	2.8	9.6
3.1	2.4	8.5	2.5	8.8	2.6	9.0	2.7	9.2	2.7	9.5
3.2	2.4	8.4	2.5	8.6	2.6	8.8	2.6	9.1	2.7	9.3
3.3	2.4	8.2	2.5	8.5	2.5	8.7	2.6	8.9	2.7	9.2
3.4	2.4	8.1	2.4	8.3	2.5	8.5	2.6	8.8	2.6	9.0
3.5	2.3	7.9	2.4	8.2	2.5	8.4	2.6	8.6	2.6	8.9
3.6	2.3	7.8	2.4	8.0	2.5	8.3	2.5	8.5	2.6	8.7
3.7	2.3	7.7	2.4	7.9	2.4	8.1	2.5	8.3	2.6	8.6
3.8	2.3	7.5	2.3	7.8	2.4	8.0	2.5	8.2	2.5	8.4
3.9	2.3	7.4	2.3	7.6	2.4	7.8	2.5	8.1	2.5	8.3
4.0	2.2	7.3	2.3	7.5	2.4	7.7	2.4	7.9	2.5	8.1

ED_002551_00000895-00059

Table 15l. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	4.0 ≤ CCC < 4.1		4.1 ≤ CCC < 4.2		4.2 ≤ CCC < 4.3		4.3 ≤ CCC < 4.4		4.4 ≤ CCC < 4.5	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	4.0	4.7	4.0	4.8	4.1	4.9	4.2	5.0	4.3	5.2
0.2	3.9	5.4	4.0	5.6	4.1	5.7	4.2	5.8	4.3	6.0
0.3	3.9	6.2	3.9	6.3	4.0	6.5	4.1	6.6	4.2	6.8
0.4	3.8	6.9	3.9	7.1	4.0	7.3	4.1	7.5	4.2	7.6
0.5	3.8	7.7	3.9	7.9	3.9	8.1	4.0	8.2	4.1	8.4
0.6	3.7	8.4	3.8	8.6	3.9	8.8	4.0	9.0	4.1	9.2
0.7	3.7	9.0	3.8	9.2	3.9	9.4	3.9	9.7	4.0	9.9
0.8	3.6	9.5	3.7	9.8	3.8	10	3.9	10	4.0	11
0.9	3.6	10	3.7	10	3.8	11	3.8	11	3.9	11
1.0	3.5	10	3.6	11	3.7	11	3.8	11	3.9	11
1.1	3.5	11	3.6	11	3.7	11	3.8	12	3.8	12
1.2	3.5	11	3.5	11	3.6	12	3.7	12	3.8	12
1.3	3.4	11	3.5	11	3.6	12	3.7	12	3.8	12
1.4	3.4	11	3.5	12	3.5	12	3.6	12	3.7	12
1.5	3.3	11	3.4	12	3.5	12	3.6	12	3.7	13
1.6	3.3	11	3.4	12	3.5	12	3.5	12	3.6	13
1.7	3.3	11	3.3	12	3.4	12	3.5	12	3.6	13
1.8	3.2	11	3.3	12	3.4	12	3.5	12	3.5	13
1.9	3.2	11	3.3	12	3.3	12	3.4	12	3.5	13
2.0	3.1	11	3.2	12	3.3	12	3.4	12	3.5	12
2.1	3.1	11	3.2	12	3.3	12	3.3	12	3.4	12
2.2	3.1	11	3.2	11	3.2	12	3.3	12	3.4	12
2.3	3.0	11	3.1	11	3.2	12	3.3	12	3.3	12
2.4	3.0	11	3.1	11	3.2	11	3.2	12	3.3	12
2.5	3.0	11	3.0	11	3.1	11	3.2	11	3.3	12
2.6	2.9	11	3.0	11	3.1	11	3.2	11	3.2	12
2.7	2.9	10	3.0	11	3.1	11	3.1	11	3.2	11
2.8	2.9	10	3.0	10	3.0	11	3.1	11	3.2	11
2.9	2.9	10	2.9	10	3.0	11	3.1	11	3.1	11
3.0	2.8	9.9	2.9	10	3.0	10	3.0	11	3.1	11
3.1	2.8	9.7	2.9	10	2.9	10	3.0	10	3.1	11
3.2	2.8	9.6	2.8	9.8	2.9	10	3.0	10	3.0	11
3.3	2.7	9.4	2.8	9.6	2.9	9.9	2.9	10	3.0	10
3.4	2.7	9.2	2.8	9.5	2.8	9.7	2.9	9.9	3.0	10
3.5	2.7	9.1	2.8	9.3	2.8	9.5	2.9	9.8	3.0	10
3.6	2.7	8.9	2.7	9.1	2.8	9.4	2.9	9.6	2.9	9.8
3.7	2.6	8.8	2.7	9.0	2.8	9.2	2.8	9.4	2.9	9.6
3.8	2.6	8.6	2.7	8.8	2.7	9.1	2.8	9.3	2.9	9.5
3.9	2.6	8.5	2.7	8.7	2.7	8.9	2.8	9.1	2.8	9.3
4.0	2.6	8.3	2.6	8.5	2.7	8.7	2.8	9.0	2.8	9.2

ED_002551_00000895-00060

Table 15J. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	4.5 ≤ CCC < 4.6		4.6 ≤ CCC < 4.7		4.7 ≤ CCC < 4.8		4.8 ≤ CCC < 4.9		4.9 ≤ CCC < 5.0	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	4.4	5.3	4.5	5.4	4.6	5.5	4.7	5.6	4.8	5.7
0.2	4.4	6.1	4.5	6.2	4.6	6.4	4.7	6.5	4.8	6.6
0.3	4.3	6.9	4.4	7.1	4.5	7.3	4.6	7.4	4.7	7.6
0.4	4.3	7.8	4.4	8.0	4.5	8.1	4.6	8.3	4.7	8.5
0.5	4.2	8.6	4.3	8.8	4.4	9.0	4.5	9.2	4.6	9.4
0.6	4.2	9.4	4.3	9.6	4.4	9.8	4.5	10	4.5	10
0.7	4.1	10	4.2	10	4.3	11	4.4	11	4.5	11
0.8	4.1	11	4.2	11	4.3	11	4.3	11	4.4	12
0.9	4.0	11	4.1	12	4.2	12	4.3	12	4.4	12
1.0	4.0	12	4.1	12	4.2	12	4.2	13	4.3	13
1.1	3.9	12	4.0	12	4.1	13	4.2	13	4.3	13
1.2	3.9	12	4.0	13	4.1	13	4.1	13	4.2	14
1.3	3.8	13	3.9	13	4.0	13	4.1	13	4.2	14
1.4	3.8	13	3.9	13	4.0	13	4.0	14	4.1	14
1.5	3.7	13	3.8	13	3.9	13	4.0	14	4.1	14
1.6	3.7	13	3.8	13	3.9	13	4.0	14	4.0	14
1.7	3.7	13	3.7	13	3.8	14	3.9	14	4.0	14
1.8	3.6	13	3.7	13	3.8	13	3.9	14	3.9	14
1.9	3.6	13	3.7	13	3.7	13	3.8	14	3.9	14
2.0	3.5	13	3.6	13	3.7	13	3.8	14	3.9	14
2.1	3.5	13	3.6	13	3.7	13	3.7	13	3.8	14
2.2	3.5	12	3.5	13	3.6	13	3.7	13	3.8	14
2.3	3.4	12	3.5	13	3.6	13	3.6	13	3.7	13
2.4	3.4	12	3.5	12	3.5	13	3.6	13	3.7	13
2.5	3.3	12	3.4	12	3.5	13	3.6	13	3.6	13
2.6	3.3	12	3.4	12	3.5	12	3.5	13	3.6	13
2.7	3.3	12	3.3	12	3.4	12	3.5	12	3.6	13
2.8	3.2	11	3.3	12	3.4	12	3.5	12	3.5	13
2.9	3.2	11	3.3	12	3.4	12	3.4	12	3.5	12
3.0	3.2	11	3.2	11	3.3	12	3.4	12	3.5	12
3.1	3.1	11	3.2	11	3.3	11	3.4	12	3.4	12
3.2	3.1	11	3.2	11	3.2	11	3.3	11	3.4	12
3.3	3.1	11	3.1	11	3.2	11	3.3	11	3.4	12
3.4	3.1	10	3.1	11	3.2	11	3.3	11	3.3	11
3.5	3.0	10	3.1	10	3.2	11	3.2	11	3.3	11
3.6	3.0	10	3.1	10	3.1	10	3.2	11	3.3	11
3.7	3.0	9.9	3.0	10	3.1	10	3.2	11	3.2	11
3.8	2.9	9.7	3.0	9.9	3.1	10	3.1	10	3.2	11
3.9	2.9	9.5	3.0	9.7	3.0	10	3.1	10	3.2	10
4.0	2.9	9.4	2.9	9.6	3.0	9.8	3.1	10	3.1	10

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Table 15K. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	5.0 ≤ CCC < 5.1		5.1 ≤ CCC < 5.2		5.2 ≤ CCC < 5.3		5.3 ≤ CCC < 5.4		5.4 ≤ CCC < 5.5	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	4.9	5.9	5.0	6.0	5.1	6.1	5.2	6.2	5.3	6.3
0.2	4.9	6.8	5.0	6.9	5.1	7.0	5.2	7.2	5.3	7.3
0.3	4.8	7.7	4.9	7.9	5.0	8.0	5.1	8.2	5.2	8.3
0.4	4.8	8.7	4.9	8.8	4.9	9.0	5.0	9.2	5.1	9.4
0.5	4.7	9.6	4.8	9.8	4.9	10	5.0	10	5.1	10
0.6	4.6	10	4.7	11	4.8	11	4.9	11	5.0	11
0.7	4.6	11	4.7	11	4.8	12	4.9	12	5.0	12
0.8	4.5	12	4.6	12	4.7	12	4.8	13	4.9	13
0.9	4.5	13	4.6	13	4.7	13	4.7	13	4.8	14
1.0	4.4	13	4.5	13	4.6	14	4.7	14	4.8	14
1.1	4.4	13	4.5	14	4.5	14	4.6	14	4.7	15
1.2	4.3	14	4.4	14	4.5	14	4.6	15	4.7	15
1.3	4.3	14	4.3	14	4.4	15	4.5	15	4.6	15
1.4	4.2	14	4.3	14	4.4	15	4.5	15	4.5	15
1.5	4.2	14	4.2	15	4.3	15	4.4	15	4.5	15
1.6	4.1	14	4.2	15	4.3	15	4.4	15	4.4	16
1.7	4.1	14	4.1	15	4.2	15	4.3	15	4.4	16
1.8	4.0	14	4.1	15	4.2	15	4.3	15	4.3	15
1.9	4.0	14	4.1	15	4.1	15	4.2	15	4.3	15
2.0	3.9	14	4.0	14	4.1	15	4.2	15	4.2	15
2.1	3.9	14	4.0	14	4.0	15	4.1	15	4.2	15
2.2	3.8	14	3.9	14	4.0	14	4.1	15	4.1	15
2.3	3.8	14	3.9	14	4.0	14	4.0	15	4.1	15
2.4	3.8	14	3.8	14	3.9	14	4.0	14	4.1	15
2.5	3.7	13	3.8	14	3.9	14	3.9	14	4.0	14
2.6	3.7	13	3.8	13	3.8	14	3.9	14	4.0	14
2.7	3.6	13	3.7	13	3.8	13	3.9	14	3.9	14
2.8	3.6	13	3.7	13	3.7	13	3.8	14	3.9	14
2.9	3.6	13	3.6	13	3.7	13	3.8	13	3.8	14
3.0	3.5	12	3.6	13	3.7	13	3.7	13	3.8	13
3.1	3.5	12	3.6	12	3.6	13	3.7	13	3.8	13
3.2	3.5	12	3.5	12	3.6	12	3.7	13	3.7	13
3.3	3.4	12	3.5	12	3.6	12	3.6	12	3.7	13
3.4	3.4	12	3.5	12	3.5	12	3.6	12	3.7	12
3.5	3.4	11	3.4	12	3.5	12	3.6	12	3.6	12
3.6	3.3	11	3.4	11	3.5	12	3.5	12	3.6	12
3.7	3.3	11	3.4	11	3.4	11	3.5	12	3.6	12
3.8	3.3	11	3.3	11	3.4	11	3.5	11	3.5	12
3.9	3.2	11	3.3	11	3.4	11	3.4	11	3.5	11
4.0	3.2	10	3.3	11	3.3	11	3.4	11	3.5	11

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Table 15L. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	5.5 ≤ CCC < 5.6		5.6 ≤ CCC < 5.7		5.7 ≤ CCC < 5.8		5.8 ≤ CCC < 5.9		5.9 ≤ CCC < 6.0	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	5.4	6.4	5.5	6.6	5.6	6.7	5.7	6.8	5.8	6.9
0.2	5.4	7.4	5.5	7.6	5.6	7.7	5.7	7.9	5.8	8.0
0.3	5.3	8.5	5.4	8.6	5.5	8.8	5.6	9.0	5.7	9.1
0.4	5.2	9.5	5.3	9.7	5.4	9.9	5.5	10	5.6	10
0.5	5.2	11	5.3	11	5.4	11	5.5	11	5.5	11
0.6	5.1	11	5.2	12	5.3	12	5.4	12	5.5	12
0.7	5.0	12	5.1	13	5.2	13	5.3	13	5.4	13
0.8	5.0	13	5.1	13	5.2	14	5.3	14	5.3	14
0.9	4.9	14	5.0	14	5.1	14	5.2	15	5.3	15
1.0	4.9	14	5.0	15	5.0	15	5.1	15	5.2	15
1.1	4.8	15	4.9	15	5.0	15	5.1	16	5.2	16
1.2	4.7	15	4.8	15	4.9	16	5.0	16	5.1	16
1.3	4.7	15	4.8	16	4.9	16	4.9	16	5.0	17
1.4	4.6	16	4.7	16	4.8	16	4.9	16	5.0	17
1.5	4.6	16	4.7	16	4.7	16	4.8	17	4.9	17
1.6	4.5	16	4.6	16	4.7	16	4.8	17	4.9	17
1.7	4.5	16	4.6	16	4.6	16	4.7	17	4.8	17
1.8	4.4	16	4.5	16	4.6	16	4.7	17	4.7	17
1.9	4.4	16	4.5	16	4.5	16	4.6	17	4.7	17
2.0	4.3	16	4.4	16	4.5	16	4.6	16	4.6	17
2.1	4.3	15	4.4	16	4.4	16	4.5	16	4.6	17
2.2	4.2	15	4.3	16	4.4	16	4.5	16	4.5	16
2.3	4.2	15	4.3	15	4.3	16	4.4	16	4.5	16
2.4	4.1	15	4.2	15	4.3	15	4.4	16	4.4	16
2.5	4.1	15	4.2	15	4.2	15	4.3	16	4.4	16
2.6	4.0	14	4.1	15	4.2	15	4.3	15	4.3	16
2.7	4.0	14	4.1	15	4.1	15	4.2	15	4.3	15
2.8	4.0	14	4.0	14	4.1	15	4.2	15	4.2	15
2.9	3.9	14	4.0	14	4.1	14	4.1	15	4.2	15
3.0	3.9	14	4.0	14	4.0	14	4.1	14	4.2	15
3.1	3.8	13	3.9	14	4.0	14	4.1	14	4.1	14
3.2	3.8	13	3.9	13	3.9	14	4.0	14	4.1	14
3.3	3.8	13	3.8	13	3.9	13	4.0	14	4.0	14
3.4	3.7	13	3.8	13	3.9	13	3.9	13	4.0	14
3.5	3.7	12	3.8	13	3.8	13	3.9	13	4.0	13
3.6	3.7	12	3.7	12	3.8	13	3.9	13	3.9	13
3.7	3.6	12	3.7	12	3.8	13	3.8	13	3.9	13
3.8	3.6	12	3.7	12	3.7	12	3.8	13	3.8	13
3.9	3.6	12	3.6	12	3.7	12	3.7	12	3.8	13
4.0	3.5	11	3.6	12	3.7	12	3.7	12	3.8	12

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Table 15M. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	6.0 ≤ CCC < 6.1		6.1 ≤ CCC < 6.2		6.2 ≤ CCC < 6.3		6.3 ≤ CCC < 6.4		6.4 ≤ CCC < 6.5	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	5.9	7.0	6.0	7.1	6.1	7.3	6.2	7.4	6.3	7.5
0.2	5.9	8.1	6.0	8.3	6.0	8.4	6.1	8.5	6.2	8.7
0.3	5.8	9.3	5.9	9.4	6.0	9.6	6.1	9.7	6.2	9.9
0.4	5.7	10	5.8	11	5.9	11	6.0	11	6.1	11
0.5	5.6	12	5.7	12	5.8	12	5.9	12	6.0	12
0.6	5.6	13	5.7	13	5.8	13	5.8	13	5.9	13
0.7	5.5	13	5.6	14	5.7	14	5.8	14	5.9	14
0.8	5.4	14	5.5	15	5.6	15	5.7	15	5.8	15
0.9	5.4	15	5.5	15	5.5	16	5.6	16	5.7	16
1.0	5.3	16	5.4	16	5.5	16	5.6	16	5.7	17
1.1	5.2	16	5.3	16	5.4	17	5.5	17	5.6	17
1.2	5.2	17	5.3	17	5.3	17	5.4	17	5.5	18
1.3	5.1	17	5.2	17	5.3	17	5.4	18	5.5	18
1.4	5.1	17	5.1	17	5.2	18	5.3	18	5.4	18
1.5	5.0	17	5.1	17	5.2	18	5.2	18	5.3	18
1.6	4.9	17	5.0	18	5.1	18	5.2	18	5.3	18
1.7	4.9	17	5.0	18	5.0	18	5.1	18	5.2	18
1.8	4.8	17	4.9	17	5.0	18	5.1	18	5.1	18
1.9	4.8	17	4.8	17	4.9	18	5.0	18	5.1	18
2.0	4.7	17	4.8	17	4.9	18	5.0	18	5.0	18
2.1	4.7	17	4.7	17	4.8	17	4.9	18	5.0	18
2.2	4.6	17	4.7	17	4.8	17	4.8	17	4.9	18
2.3	4.6	16	4.6	17	4.7	17	4.8	17	4.9	18
2.4	4.5	16	4.6	17	4.7	17	4.7	17	4.8	17
2.5	4.5	16	4.5	16	4.6	17	4.7	17	4.8	17
2.6	4.4	16	4.5	16	4.6	16	4.6	17	4.7	17
2.7	4.4	16	4.4	16	4.5	16	4.6	16	4.7	17
2.8	4.3	15	4.4	16	4.5	16	4.5	16	4.6	16
2.9	4.3	15	4.3	15	4.4	16	4.5	16	4.6	16
3.0	4.2	15	4.3	15	4.4	15	4.4	16	4.5	16
3.1	4.2	15	4.3	15	4.3	15	4.4	15	4.5	16
3.2	4.1	14	4.2	15	4.3	15	4.4	15	4.4	15
3.3	4.1	14	4.2	14	4.2	15	4.3	15	4.4	15
3.4	4.1	14	4.1	14	4.2	14	4.3	15	4.3	15
3.5	4.0	14	4.1	14	4.2	14	4.2	14	4.3	15
3.6	4.0	13	4.1	14	4.1	14	4.2	14	4.3	14
3.7	4.0	13	4.0	13	4.1	14	4.1	14	4.2	14
3.8	3.9	13	4.0	13	4.0	13	4.1	14	4.2	14
3.9	3.9	13	3.9	13	4.0	13	4.1	13	4.1	14
4.0	3.8	12	3.9	13	4.0	13	4.0	13	4.1	13

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Table 15N. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CCC

CCC (mg/L)	6.5 ≤ CCC < 6.6		6.6 ≤ CCC	
CV	AMEL	AWEL	AMEL	AWEL
0.1	6.4	7.6	6.5	7.7
0.2	6.3	8.8	6.4	8.9
0.3	6.3	10	6.4	10
0.4	6.2	11	6.3	11
0.5	6.1	12	6.2	13
0.6	6.0	14	6.1	14
0.7	6.0	15	6.1	15
0.8	5.9	16	6.0	16
0.9	5.8	16	5.9	17
1.0	5.7	17	5.8	17
1.1	5.7	17	5.8	18
1.2	5.6	18	5.7	18
1.3	5.5	18	5.6	19
1.4	5.5	18	5.6	19
1.5	5.4	19	5.5	19
1.6	5.3	19	5.4	19
1.7	5.3	19	5.4	19
1.8	5.2	19	5.3	19
1.9	5.2	19	5.2	19
2.0	5.1	18	5.2	19
2.1	5.1	18	5.1	19
2.2	5.0	18	5.1	18
2.3	4.9	18	5.0	18
2.4	4.9	18	5.0	18
2.5	4.8	17	4.9	18
2.6	4.8	17	4.9	17
2.7	4.7	17	4.8	17
2.8	4.7	17	4.8	17
2.9	4.6	16	4.7	17
3.0	4.6	16	4.7	16
3.1	4.5	16	4.6	16
3.2	4.5	16	4.6	16
3.3	4.4	15	4.5	16
3.4	4.4	15	4.5	15
3.5	4.4	15	4.4	15
3.6	4.3	15	4.4	15
3.7	4.3	14	4.3	14
3.8	4.2	14	4.3	14
3.9	4.2	14	4.3	14
4.0	4.2	14	4.2	14

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Table 16A. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CMC (Salmonids Present)

CMC (mg/L)	8.11		6.77		5.62		4.64		3.83		3.15	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	7.0	7.9	5.8	6.6	4.9	5.5	4.0	4.5	3.3	3.7	2.7	3.1
0.2	6.1	7.7	5.1	6.4	4.2	5.3	3.5	4.4	2.9	3.6	2.4	3.0
0.3	5.4	7.5	4.5	6.3	3.7	5.2	3.1	4.3	2.6	3.5	2.1	2.9
0.4	4.8	7.3	4.0	6.1	3.4	5.1	2.8	4.2	2.3	3.4	1.9	2.8
0.5	4.4	7.1	3.7	6.0	3.0	4.9	2.5	4.1	2.1	3.4	1.7	2.8
0.6	4.0	7.0	3.4	5.8	2.8	4.8	2.3	4.0	1.9	3.3	1.6	2.7
0.7	3.8	6.8	3.1	5.7	2.6	4.7	2.2	3.9	1.8	3.2	1.5	2.7
0.8	3.5	6.7	3.0	5.6	2.5	4.6	2.0	3.8	1.7	3.2	1.4	2.6
0.9	3.4	6.6	2.8	5.5	2.3	4.6	1.9	3.8	1.6	3.1	1.3	2.6
1.0	3.2	6.5	2.7	5.4	2.2	4.5	1.8	3.7	1.5	3.1	1.2	2.5
1.1	3.1	6.4	2.6	5.3	2.1	4.4	1.8	3.6	1.5	3.0	1.2	2.5
1.2	3.0	6.3	2.5	5.2	2.1	4.3	1.7	3.6	1.4	3.0	1.2	2.4
1.3	2.9	6.2	2.4	5.2	2.0	4.3	1.7	3.5	1.4	2.9	1.1	2.4
1.4	2.9	6.1	2.4	5.1	2.0	4.2	1.6	3.5	1.4	2.9	1.1	2.4
1.5	2.8	6.0	2.3	5.0	1.9	4.2	1.6	3.5	1.3	2.9	1.1	2.3
1.6	2.8	6.0	2.3	5.0	1.9	4.1	1.6	3.4	1.3	2.8	1.1	2.3
1.7	2.7	5.9	2.3	4.9	1.9	4.1	1.6	3.4	1.3	2.8	1.1	2.3
1.8	2.7	5.8	2.2	4.9	1.9	4.1	1.5	3.3	1.3	2.8	1.0	2.3
1.9	2.7	5.8	2.2	4.8	1.8	4.0	1.5	3.3	1.3	2.7	1.0	2.3
2.0	2.6	5.7	2.2	4.8	1.8	4.0	1.5	3.3	1.2	2.7	1.0	2.2
2.1	2.6	5.7	2.2	4.8	1.8	3.9	1.5	3.3	1.2	2.7	1.0	2.2
2.2	2.6	5.7	2.2	4.7	1.8	3.9	1.5	3.2	1.2	2.7	1.0	2.2
2.3	2.6	5.6	2.2	4.7	1.8	3.9	1.5	3.2	1.2	2.6	1.0	2.2
2.4	2.6	5.6	2.1	4.6	1.8	3.9	1.5	3.2	1.2	2.6	1.0	2.2
2.5	2.5	5.5	2.1	4.6	1.8	3.8	1.5	3.2	1.2	2.6	0.99	2.1
2.6	2.5	5.5	2.1	4.6	1.8	3.8	1.4	3.1	1.2	2.6	0.98	2.1
2.7	2.5	5.5	2.1	4.6	1.7	3.8	1.4	3.1	1.2	2.6	0.98	2.1
2.8	2.5	5.4	2.1	4.5	1.7	3.8	1.4	3.1	1.2	2.6	0.97	2.1
2.9	2.5	5.4	2.1	4.5	1.7	3.7	1.4	3.1	1.2	2.5	0.97	2.1
3.0	2.5	5.4	2.1	4.5	1.7	3.7	1.4	3.1	1.2	2.5	0.97	2.1
3.1	2.5	5.3	2.1	4.5	1.7	3.7	1.4	3.1	1.2	2.5	0.96	2.1
3.2	2.5	5.3	2.1	4.4	1.7	3.7	1.4	3.0	1.2	2.5	0.96	2.1
3.3	2.5	5.3	2.1	4.4	1.7	3.7	1.4	3.0	1.2	2.5	0.96	2.1
3.4	2.5	5.3	2.0	4.4	1.7	3.6	1.4	3.0	1.2	2.5	0.95	2.0
3.5	2.4	5.2	2.0	4.4	1.7	3.6	1.4	3.0	1.2	2.5	0.95	2.0
3.6	2.4	5.2	2.0	4.4	1.7	3.6	1.4	3.0	1.1	2.5	0.95	2.0
3.7	2.4	5.2	2.0	4.3	1.7	3.6	1.4	3.0	1.1	2.5	0.94	2.0
3.8	2.4	5.2	2.0	4.3	1.7	3.6	1.4	3.0	1.1	2.4	0.94	2.0
3.9	2.4	5.2	2.0	4.3	1.7	3.6	1.4	2.9	1.1	2.4	0.94	2.0
4.0	2.4	5.1	2.0	4.3	1.7	3.6	1.4	2.9	1.1	2.4	0.93	2.0

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Table 16B. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CMC (Salmonids Present)

CMC (mg/L)	2.59		2.14		1.77		1.47		1.23		1.04		0.88	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	7.0	7.9	5.8	6.6	4.9	5.5	4.0	4.5	3.3	3.7	2.7	3.1	0.76	0.86
0.2	6.1	7.7	5.1	6.4	4.2	5.3	3.5	4.4	2.9	3.6	2.4	3.0	0.66	0.83
0.3	5.4	7.5	4.5	6.3	3.7	5.2	3.1	4.3	2.6	3.5	2.1	2.9	0.59	0.81
0.4	4.8	7.3	4.0	6.1	3.4	5.1	2.8	4.2	2.3	3.4	1.9	2.8	0.53	0.79
0.5	4.4	7.1	3.7	6.0	3.0	4.9	2.5	4.1	2.1	3.4	1.7	2.8	0.48	0.77
0.6	4.0	7.0	3.4	5.8	2.8	4.8	2.3	4.0	1.9	3.3	1.6	2.7	0.44	0.76
0.7	3.8	6.8	3.1	5.7	2.6	4.7	2.2	3.9	1.8	3.2	1.5	2.7	0.41	0.74
0.8	3.5	6.7	3.0	5.6	2.5	4.6	2.0	3.8	1.7	3.2	1.4	2.6	0.38	0.73
0.9	3.4	6.6	2.8	5.5	2.3	4.6	1.9	3.8	1.6	3.1	1.3	2.6	0.36	0.71
1.0	3.2	6.5	2.7	5.4	2.2	4.5	1.8	3.7	1.5	3.1	1.2	2.5	0.35	0.70
1.1	3.1	6.4	2.6	5.3	2.1	4.4	1.8	3.6	1.5	3.0	1.2	2.5	0.34	0.69
1.2	3.0	6.3	2.5	5.2	2.1	4.3	1.7	3.6	1.4	3.0	1.2	2.4	0.33	0.68
1.3	2.9	6.2	2.4	5.2	2.0	4.3	1.7	3.5	1.4	2.9	1.1	2.4	0.32	0.67
1.4	2.9	6.1	2.4	5.1	2.0	4.2	1.6	3.5	1.4	2.9	1.1	2.4	0.31	0.66
1.5	2.8	6.0	2.3	5.0	1.9	4.2	1.6	3.5	1.3	2.9	1.1	2.3	0.30	0.65
1.6	2.8	6.0	2.3	5.0	1.9	4.1	1.6	3.4	1.3	2.8	1.1	2.3	0.30	0.65
1.7	2.7	5.9	2.3	4.9	1.9	4.1	1.6	3.4	1.3	2.8	1.1	2.3	0.30	0.64
1.8	2.7	5.8	2.2	4.9	1.9	4.1	1.5	3.3	1.3	2.8	1.0	2.3	0.29	0.63
1.9	2.7	5.8	2.2	4.8	1.8	4.0	1.5	3.3	1.3	2.7	1.0	2.3	0.29	0.63
2.0	2.6	5.7	2.2	4.8	1.8	4.0	1.5	3.3	1.2	2.7	1.0	2.2	0.29	0.62
2.1	2.6	5.7	2.2	4.8	1.8	3.9	1.5	3.3	1.2	2.7	1.0	2.2	0.28	0.62
2.2	2.6	5.7	2.2	4.7	1.8	3.9	1.5	3.2	1.2	2.7	1.0	2.2	0.28	0.61
2.3	2.6	5.6	2.2	4.7	1.8	3.9	1.5	3.2	1.2	2.6	1.0	2.2	0.28	0.61
2.4	2.6	5.6	2.1	4.6	1.8	3.9	1.5	3.2	1.2	2.6	1.0	2.2	0.28	0.60
2.5	2.5	5.5	2.1	4.6	1.8	3.8	1.5	3.2	1.2	2.6	0.99	2.1	0.28	0.60
2.6	2.5	5.5	2.1	4.6	1.8	3.8	1.4	3.1	1.2	2.6	0.98	2.1	0.27	0.60
2.7	2.5	5.5	2.1	4.6	1.7	3.8	1.4	3.1	1.2	2.6	0.98	2.1	0.27	0.59
2.8	2.5	5.4	2.1	4.5	1.7	3.8	1.4	3.1	1.2	2.6	0.97	2.1	0.27	0.59
2.9	2.5	5.4	2.1	4.5	1.7	3.7	1.4	3.1	1.2	2.5	0.97	2.1	0.27	0.59
3.0	2.5	5.4	2.1	4.5	1.7	3.7	1.4	3.1	1.2	2.5	0.97	2.1	0.27	0.58
3.1	2.5	5.3	2.1	4.5	1.7	3.7	1.4	3.1	1.2	2.5	0.96	2.1	0.27	0.58
3.2	2.5	5.3	2.1	4.4	1.7	3.7	1.4	3.0	1.2	2.5	0.96	2.1	0.27	0.58
3.3	2.5	5.3	2.1	4.4	1.7	3.7	1.4	3.0	1.2	2.5	0.96	2.1	0.27	0.57
3.4	2.5	5.3	2.0	4.4	1.7	3.6	1.4	3.0	1.2	2.5	0.95	2.0	0.27	0.57
3.5	2.4	5.2	2.0	4.4	1.7	3.6	1.4	3.0	1.2	2.5	0.95	2.0	0.26	0.57
3.6	2.4	5.2	2.0	4.4	1.7	3.6	1.4	3.0	1.1	2.5	0.95	2.0	0.26	0.57
3.7	2.4	5.2	2.0	4.3	1.7	3.6	1.4	3.0	1.1	2.5	0.94	2.0	0.26	0.56
3.8	2.4	5.2	2.0	4.3	1.7	3.6	1.4	3.0	1.1	2.4	0.94	2.0	0.26	0.56
3.9	2.4	5.2	2.0	4.3	1.7	3.6	1.4	2.9	1.1	2.4	0.94	2.0	0.26	0.56
4.0	2.4	5.1	2.0	4.3	1.7	3.6	1.4	2.9	1.1	2.4	0.93	2.0	0.26	0.56

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Table 16C. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CMC (Salmonids Absent)

CMC (mg/L)	12		10		8.41		6.95		5.73		4.71	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	10	12	8.6	9.7	7.3	8.2	6.0	6.8	5.0	5.6	4.1	4.6
0.2	9.1	11	7.5	9.5	6.3	8.0	5.2	6.6	4.3	5.4	3.6	4.5
0.3	8.0	11	6.7	9.2	5.6	7.8	4.6	6.4	3.8	5.3	3.1	4.3
0.4	7.2	11	6.0	9.0	5.0	7.6	4.1	6.3	3.4	5.2	2.8	4.2
0.5	6.5	11	5.4	8.8	4.6	7.4	3.8	6.1	3.1	5.0	2.6	4.1
0.6	6.0	10	5.0	8.6	4.2	7.2	3.5	6.0	2.9	4.9	2.3	4.1
0.7	5.6	10	4.6	8.4	3.9	7.1	3.2	5.9	2.7	4.8	2.2	4.0
0.8	5.2	9.9	4.4	8.3	3.7	6.9	3.0	5.7	2.5	4.7	2.1	3.9
0.9	5.0	9.7	4.1	8.1	3.5	6.8	2.9	5.6	2.4	4.6	2.0	3.8
1.0	4.8	9.6	4.0	8.0	3.3	6.7	2.8	5.5	2.3	4.6	1.9	3.8
1.1	4.6	9.4	3.8	7.8	3.2	6.6	2.7	5.5	2.2	4.5	1.8	3.7
1.2	4.4	9.3	3.7	7.7	3.1	6.5	2.6	5.4	2.1	4.4	1.7	3.6
1.3	4.3	9.2	3.6	7.6	3.0	6.4	2.5	5.3	2.1	4.4	1.7	3.6
1.4	4.2	9.0	3.5	7.5	3.0	6.3	2.5	5.2	2.0	4.3	1.7	3.5
1.5	4.2	8.9	3.5	7.4	2.9	6.3	2.4	5.2	2.0	4.3	1.6	3.5
1.6	4.1	8.8	3.4	7.4	2.9	6.2	2.4	5.1	2.0	4.2	1.6	3.5
1.7	4.0	8.7	3.4	7.3	2.8	6.1	2.3	5.1	1.9	4.2	1.6	3.4
1.8	4.0	8.7	3.3	7.2	2.8	6.1	2.3	5.0	1.9	4.1	1.6	3.4
1.9	3.9	8.6	3.3	7.1	2.8	6.0	2.3	5.0	1.9	4.1	1.5	3.4
2.0	3.9	8.5	3.3	7.1	2.7	6.0	2.3	4.9	1.9	4.1	1.5	3.3
2.1	3.9	8.4	3.2	7.0	2.7	5.9	2.2	4.9	1.8	4.0	1.5	3.3
2.2	3.8	8.4	3.2	7.0	2.7	5.9	2.2	4.8	1.8	4.0	1.5	3.3
2.3	3.8	8.3	3.2	6.9	2.7	5.8	2.2	4.8	1.8	4.0	1.5	3.3
2.4	3.8	8.2	3.2	6.9	2.7	5.8	2.2	4.8	1.8	3.9	1.5	3.2
2.5	3.8	8.2	3.1	6.8	2.6	5.7	2.2	4.7	1.8	3.9	1.5	3.2
2.6	3.7	8.1	3.1	6.8	2.6	5.7	2.2	4.7	1.8	3.9	1.5	3.2
2.7	3.7	8.1	3.1	6.7	2.6	5.7	2.2	4.7	1.8	3.9	1.5	3.2
2.8	3.7	8.0	3.1	6.7	2.6	5.6	2.2	4.7	1.8	3.8	1.5	3.2
2.9	3.7	8.0	3.1	6.7	2.6	5.6	2.1	4.6	1.8	3.8	1.5	3.1
3.0	3.7	7.9	3.1	6.6	2.6	5.6	2.1	4.6	1.8	3.8	1.4	3.1
3.1	3.7	7.9	3.1	6.6	2.6	5.5	2.1	4.6	1.8	3.8	1.4	3.1
3.2	3.7	7.9	3.0	6.6	2.6	5.5	2.1	4.6	1.7	3.8	1.4	3.1
3.3	3.6	7.8	3.0	6.5	2.6	5.5	2.1	4.5	1.7	3.7	1.4	3.1
3.4	3.6	7.8	3.0	6.5	2.5	5.5	2.1	4.5	1.7	3.7	1.4	3.1
3.5	3.6	7.7	3.0	6.5	2.5	5.4	2.1	4.5	1.7	3.7	1.4	3.0
3.6	3.6	7.7	3.0	6.4	2.5	5.4	2.1	4.5	1.7	3.7	1.4	3.0
3.7	3.6	7.7	3.0	6.4	2.5	5.4	2.1	4.4	1.7	3.7	1.4	3.0
3.8	3.6	7.7	3.0	6.4	2.5	5.4	2.1	4.4	1.7	3.7	1.4	3.0
3.9	3.6	7.6	3.0	6.4	2.5	5.3	2.1	4.4	1.7	3.6	1.4	3.0
4.0	3.6	7.6	3.0	6.3	2.5	5.3	2.1	4.4	1.7	3.6	1.4	3.0

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Table 16D. Effluent Limitations – Ammonia Nitrogen, Total (as N) Based on CMC (Salmonids Absent)

CMC (mg/L)	3.88		3.2		2.65		2.2		1.84		1.56		1.32	
CV	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	3.4	3.8	2.8	3.1	2.3	2.6	1.9	2.1	1.6	1.8	1.3	1.5	1.1	1.3
0.2	2.9	3.7	2.4	3.0	2.0	2.5	1.7	2.1	1.4	1.7	1.2	1.5	1.0	1.3
0.3	2.6	3.6	2.1	3.0	1.8	2.4	1.5	2.0	1.2	1.7	1.0	1.4	0.88	1.2
0.4	2.3	3.5	1.9	2.9	1.6	2.4	1.3	2.0	1.1	1.7	0.93	1.4	0.79	1.2
0.5	2.1	3.4	1.7	2.8	1.4	2.3	1.2	1.9	1.0	1.6	0.85	1.4	0.72	1.2
0.6	1.9	3.3	1.6	2.8	1.3	2.3	1.1	1.9	0.92	1.6	0.78	1.3	0.66	1.1
0.7	1.8	3.3	1.5	2.7	1.2	2.2	1.0	1.9	0.85	1.5	0.72	1.3	0.61	1.1
0.8	1.7	3.2	1.4	2.6	1.2	2.2	0.96	1.8	0.80	1.5	0.68	1.3	0.58	1.1
0.9	1.6	3.1	1.3	2.6	1.1	2.1	0.91	1.8	0.76	1.5	0.65	1.3	0.55	1.1
1.0	1.5	3.1	1.3	2.6	1.1	2.1	0.87	1.8	0.73	1.5	0.62	1.2	0.52	1.1
1.1	1.5	3.0	1.2	2.5	1.0	2.1	0.84	1.7	0.70	1.4	0.60	1.2	0.50	1.0
1.2	1.4	3.0	1.2	2.5	0.98	2.0	0.82	1.7	0.68	1.4	0.58	1.2	0.49	1.0
1.3	1.4	3.0	1.2	2.4	0.96	2.0	0.79	1.7	0.66	1.4	0.56	1.2	0.48	1.0
1.4	1.4	2.9	1.1	2.4	0.94	2.0	0.78	1.7	0.65	1.4	0.55	1.2	0.47	0.99
1.5	1.3	2.9	1.1	2.4	0.92	2.0	0.76	1.6	0.64	1.4	0.54	1.2	0.46	0.98
1.6	1.3	2.9	1.1	2.4	0.90	2.0	0.75	1.6	0.63	1.4	0.53	1.1	0.45	0.97
1.7	1.3	2.8	1.1	2.3	0.89	1.9	0.74	1.6	0.62	1.3	0.52	1.1	0.44	0.96
1.8	1.3	2.8	1.1	2.3	0.88	1.9	0.73	1.6	0.61	1.3	0.52	1.1	0.44	0.95
1.9	1.3	2.8	1.1	2.3	0.87	1.9	0.72	1.6	0.60	1.3	0.51	1.1	0.43	0.94
2.0	1.3	2.7	1.0	2.3	0.86	1.9	0.72	1.6	0.60	1.3	0.51	1.1	0.43	0.93
2.1	1.3	2.7	1.0	2.2	0.85	1.9	0.71	1.5	0.59	1.3	0.50	1.1	0.43	0.93
2.2	1.2	2.7	1.0	2.2	0.85	1.8	0.70	1.5	0.59	1.3	0.50	1.1	0.42	0.92
2.3	1.2	2.7	1.0	2.2	0.84	1.8	0.70	1.5	0.58	1.3	0.50	1.1	0.42	0.91
2.4	1.2	2.7	1.0	2.2	0.84	1.8	0.69	1.5	0.58	1.3	0.49	1.1	0.42	0.91
2.5	1.2	2.6	1.0	2.2	0.83	1.8	0.69	1.5	0.58	1.3	0.49	1.1	0.41	0.90
2.6	1.2	2.6	1.0	2.2	0.83	1.8	0.69	1.5	0.57	1.2	0.49	1.1	0.41	0.89
2.7	1.2	2.6	0.99	2.2	0.82	1.8	0.68	1.5	0.57	1.2	0.48	1.1	0.41	0.89
2.8	1.2	2.6	0.99	2.1	0.82	1.8	0.68	1.5	0.57	1.2	0.48	1.0	0.41	0.88
2.9	1.2	2.6	0.99	2.1	0.82	1.8	0.68	1.5	0.57	1.2	0.48	1.0	0.41	0.88
3.0	1.2	2.6	0.98	2.1	0.81	1.8	0.67	1.5	0.56	1.2	0.48	1.0	0.40	0.87
3.1	1.2	2.6	0.98	2.1	0.81	1.7	0.67	1.4	0.56	1.2	0.48	1.0	0.40	0.87
3.2	1.2	2.5	0.97	2.1	0.81	1.7	0.67	1.4	0.56	1.2	0.47	1.0	0.40	0.86
3.3	1.2	2.5	0.97	2.1	0.80	1.7	0.67	1.4	0.56	1.2	0.47	1.0	0.40	0.86
3.4	1.2	2.5	0.97	2.1	0.80	1.7	0.66	1.4	0.56	1.2	0.47	1.0	0.40	0.86
3.5	1.2	2.5	0.96	2.1	0.80	1.7	0.66	1.4	0.55	1.2	0.47	1.0	0.40	0.85
3.6	1.2	2.5	0.96	2.1	0.80	1.7	0.66	1.4	0.55	1.2	0.47	1.0	0.40	0.85
3.7	1.2	2.5	0.96	2.0	0.79	1.7	0.66	1.4	0.55	1.2	0.47	1.0	0.39	0.85
3.8	1.2	2.5	0.95	2.0	0.79	1.7	0.66	1.4	0.55	1.2	0.47	0.99	0.39	0.84
3.9	1.2	2.5	0.95	2.0	0.79	1.7	0.65	1.4	0.55	1.2	0.46	0.99	0.39	0.84
4.0	1.1	2.5	0.95	2.0	0.79	1.7	0.65	1.4	0.55	1.2	0.46	0.99	0.39	0.84

vi. **Applicable to Discharges to Receiving Waters with the MUN Use.** For discharges to receiving waters with the MUN use, the constituents subject to effluent limitations, as identified in the Notice of Applicability from the Executive Officer, shall not exceed the effluent limitations in Tables 17A and 17B below:

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Table 17A. Effluent Limitations – Constituents of Concern (Receiving Waters with MUN Use)

CV	Aluminum, Total Recoverable (µg/L)[1]				Fluoride (mg/L)	
	With NAWQC Chronic Criterion		Without NAWQC Chronic Criterion			
	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	84	95	220	250	2.2	2.5
0.2	81	100	230	310	2.3	3.1
0.3	79	110	250	380	2.5	3.8
0.4	76	120	270	460	2.7	4.5
0.5	74	120	290	540	2.9	5.4
0.6	71	120	310	620	3.1	6.2
0.7	69	130	330	630	3.3	7.1
0.8	67	130	330	620	3.5	8.0
0.9	65	130	310	610	3.7	8.9
1.0	63	130	300	600	3.9	9.8
1.1	61	130	290	590	4.1	11
1.2	60	120	280	580	4.3	12
1.3	58	120	270	570	4.5	12
1.4	57	120	270	570	4.6	13
1.5	55	120	260	560	4.8	14
1.6	54	120	260	550	5.0	15
1.7	53	110	250	550	5.1	15
1.8	51	110	250	540	5.3	16
1.9	50	110	250	540	5.4	17
2.0	49	110	240	530	5.6	17
2.1	48	110	240	530	5.7	18
2.2	47	100	240	520	5.8	18
2.3	47	100	240	520	5.9	19
2.4	46	99	240	520	6.1	19
2.5	45	98	240	510	6.2	20
2.6	44	96	230	510	6.3	20
2.7	43	94	230	510	6.4	20
2.8	43	93	230	500	6.5	21
2.9	42	91	230	500	6.5	21
3.0	42	90	230	500	6.6	22
3.1	41	88	230	490	6.7	22
3.2	40	87	230	490	6.8	22
3.3	40	86	230	490	6.8	23
3.4	39	84	230	490	6.9	23
3.5	39	83	230	480	7.0	23
3.6	38	82	230	480	7.0	23
3.7	38	81	220	480	7.1	24
3.8	37	80	220	480	7.1	24
3.9	37	79	220	480	7.2	24
4.0	37	78	220	470	7.2	24

[1] The Central Valley Water Board will evaluate site-specific information to determine the applicability of the U.S. EPA National Ambient Water Quality Criteria (NAWQC) chronic aquatic life criterion of 87 µg/L to a receiving water, including effluent and receiving water pH and hardness data and site-specific study information. If the Central Valley Water Board determines that the NAWQC chronic criterion is applicable, the effluent limitations shall be selected from the "With NAWQC Chronic Criterion" columns. If the Central Valley Water Board determines that the NAWQC chronic criterion is not applicable, the effluent limitations shall be selected from the "Without NAWQC Chronic Criterion" columns. See section V.C.3.b.i of the Fact Sheet (Attachment F) for a discussion of the applicability of the NAWQC chronic criterion.

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Table 17B. Effluent Limitations – Constituents of Concern (Receiving Waters with MUN Use)

CV	Manganese, Total Recoverable (µg/L)		Foaming Agents (MBAS)[1] (mg/L)		Nitrate Plus Nitrite (as N, mg/L)		Nitrite Nitrogen, Total (as N, mg/L)	
	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL	AMEL	AWEL
0.1	54	63	0.54	0.63	10	11	1.0	1.1
0.2	59	78	0.59	0.78	10	13	1.0	1.3
0.3	63	95	0.63	0.95	10	14	1.0	1.4
0.4	68	110	0.68	1.1	10	15	1.0	1.5
0.5	73	130	0.73	1.3	10	16	1.0	1.6
0.6	78	160	0.78	1.6	10	17	1.0	1.7
0.7	83	180	0.83	1.8	10	18	1.0	1.8
0.8	87	200	0.87	2.0	10	19	1.0	1.9
0.9	92	220	0.92	2.2	10	20	1.0	2.0
1.0	97	250	0.97	2.5	10	20	1.0	2.0
1.1	100	270	1.0	2.7	10	21	1.0	2.1
1.2	110	290	1.1	2.9	10	21	1.0	2.1
1.3	110	310	1.1	3.1	10	21	1.0	2.1
1.4	120	330	1.2	3.3	10	21	1.0	2.1
1.5	120	350	1.2	3.5	10	21	1.0	2.1
1.6	120	360	1.2	3.6	10	22	1.0	2.2
1.7	130	380	1.3	3.8	10	22	1.0	2.2
1.8	130	400	1.3	4.0	10	22	1.0	2.2
1.9	140	410	1.4	4.1	10	22	1.0	2.2
2.0	140	430	1.4	4.3	10	22	1.0	2.2
2.1	140	440	1.4	4.4	10	22	1.0	2.2
2.2	150	460	1.5	4.5	10	22	1.0	2.2
2.3	150	470	1.5	4.7	10	22	1.0	2.2
2.4	150	480	1.5	4.8	10	22	1.0	2.2
2.5	150	490	1.5	4.9	10	22	1.0	2.2
2.6	160	500	1.6	5.0	10	22	1.0	2.2
2.7	160	510	1.6	5.1	10	22	1.0	2.2
2.8	160	520	1.6	5.2	10	22	1.0	2.2
2.9	160	530	1.6	5.3	10	22	1.0	2.2
3.0	170	540	1.7	5.4	10	22	1.0	2.2
3.1	170	550	1.7	5.5	10	22	1.0	2.2
3.2	170	560	1.7	5.6	10	22	1.0	2.2
3.3	170	560	1.7	5.6	10	21	1.0	2.1
3.4	170	570	1.7	5.7	10	21	1.0	2.1
3.5	170	580	1.7	5.8	10	21	1.0	2.1
3.6	180	580	1.8	5.8	10	21	1.0	2.1
3.7	180	590	1.8	5.9	10	21	1.0	2.1
3.8	180	600	1.8	6.0	10	21	1.0	2.1
3.9	180	600	1.8	6.0	10	21	1.0	2.1
4.0	180	610	1.8	6.1	10	21	1.0	2.1

[1] MBAS – Methylene blue active substances

vii. **Applicable to Discharges to Receiving Waters without the MUN Use.** For discharges to receiving waters without the MUN use, the constituents subject to effluent limitations, as identified in the Notice of Applicability from the Executive Officer, shall not exceed the effluent limitations in Table 18 below:

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Table 18. Effluent Limitations – Constituents of Concern (Receiving Waters without MUN Use)

CV	Aluminum, Total Recoverable (µg/L)[1]			
	With NAWQC Chronic Criterion		Without NAWQC Chronic Criterion	
	AMEL	AWEL	AMEL	AWEL
0.1	84	95	650	730
0.2	81	100	570	710
0.3	79	110	500	690
0.4	76	120	450	680
0.5	74	120	410	660
0.6	71	120	370	650
0.7	69	130	350	630
0.8	67	130	330	620
0.9	65	130	310	610
1.0	63	130	300	600
1.1	61	130	290	590
1.2	60	120	280	580
1.3	58	120	270	570
1.4	57	120	270	570
1.5	55	120	260	560
1.6	54	120	260	550
1.7	53	110	250	550
1.8	51	110	250	540
1.9	50	110	250	540
2.0	49	110	240	530
2.1	48	110	240	530
2.2	47	100	240	520
2.3	47	100	240	520
2.4	46	99	240	520
2.5	45	98	240	510
2.6	44	96	230	510
2.7	43	94	230	510
2.8	43	93	230	500
2.9	42	91	230	500
3.0	42	90	230	500
3.1	41	88	230	490
3.2	40	87	230	490
3.3	40	86	230	490
3.4	39	84	230	490
3.5	39	83	230	480
3.6	38	82	230	480
3.7	38	81	220	480
3.8	37	80	220	480
3.9	37	79	220	480
4.0	37	78	220	470

[1] The Central Valley Water Board will evaluate site-specific information to determine the applicability of the NAWQC chronic aquatic life criterion of 87 µg/L to a receiving water, including effluent and receiving water pH and hardness data and site-specific study information. If the Central Valley Water Board determines that the NAWQC chronic criterion is applicable, the effluent limitations shall be selected from the "With NAWQC Chronic Criterion" columns. If the Central Valley Water Board determines that the NAWQC chronic criterion is not applicable, the effluent limitations shall be selected from the "Without NAWQC Chronic Criterion" columns. See section V.C.3.b.i of the Fact Sheet (Attachment F) for a discussion of the applicability of the NAWQC chronic criterion.

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viii. **Salinity**

(a) **Applicable to Discharges to Receiving Waters in the Sacramento and San Joaquin River Basins with the MUN Use.** For discharges to receiving waters in the Sacramento and San Joaquin River Basins with the MUN use and with a calendar year annual average effluent electrical conductivity concentration that exceeds 900 µmhos/cm, the effluent electrical conductivity concentration shall not exceed the annual average effluent limitation specified in Table 19 below and in the Notice of Applicability from the Executive Officer. The effluent limitation for electrical conductivity serves as a cap to ensure that electrical conductivity concentrations do not increase and shall be based on Facility performance (i.e., the maximum observed calendar year annual average electrical conductivity of the effluent) and shall be specified in the Notice of Applicability as follows:

Table 19. Effluent Limitations – Electrical Conductivity for Discharges to Receiving Waters in the Sacramento and San Joaquin River Basins with the MUN Use

Maximum Annual Average Facility Performance (µmhos/cm)	Annual Average Effluent Limitation (µmhos/cm)
900 < EC[1] ≤ 1,000	1,400
1,000 < EC ≤ 1,100	1,540
1,100 < EC ≤ 1,200	1,680
1,200 < EC ≤ 1,300	1,820
1,300 < EC ≤ 1,400	1,960
1,400 < EC ≤ 1,500	2,100
1,500 < EC ≤ 1,600	2,240
1,600 < EC ≤ 1,700	2,380
1,700 < EC ≤ 1,800	2,520
1,800 < EC	2,660

[1] EC – Electrical Conductivity @ 25°C

(b) **Applicable to Discharges in the Tulare Lake Basin.** As of (1) specified in the Notice of Applicability, Dischargers within the Tulare Lake Basin shall not exceed the effluent limitations in (1) and (2) below:

(1) **Boron and Chloride.** The Discharger shall maintain compliance with the effluent limitations specified in Table 20:

Table 20. Effluent Limitations – Boron and Chloride in the Tulare Lake Basin

Parameter	Units	Average Monthly Effluent Limitation
Boron	mg/L	1.0
Chloride	mg/L	175

(2) **Electrical Conductivity @ 25°C.** The 12-month rolling average effluent electrical conductivity shall not exceed 1,000 µmhos/cm or the 12-month rolling average electrical conductivity of the source water plus 500 µmhos/cm, whichever is more stringent. When source water is from more than one source, the electrical conductivity shall be a flow-weighted average of all sources.

ix. **Diazinon and Chlorpyrifos.** For discharges to the Sacramento River, the Feather River, the San Joaquin River and its tributaries downstream of the major dams and reservoirs, and the Sacramento-San Joaquin Delta, effluent diazinon

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and chlorpyrifos concentrations shall not exceed the sum of one (1.0) as identified below and as specified in the Notice of Applicability:

(a) **Average Monthly Effluent Limitation**

$$S_{AMEL} = \frac{C_{D\,M-avg}}{0.079} + \frac{C_{C\,M-avg}}{0.012} \leq 1.0$$

$C_{D\,M\text{-}avg}$ = average monthly diazinon effluent concentration in µg/L.
$C_{C\,M\text{-}avg}$ = average monthly chlorpyrifos effluent concentration in µg/L.

(b) **Average Weekly Effluent Limitation**

$$S_{AWEL} = \frac{C_{D\,W-avg}}{0.14} + \frac{C_{C\,W-avg}}{0.021} \leq 1.0$$

$C_{D\,W\text{-}avg}$ = average weekly diazinon effluent concentration in µg/L.
$C_{C\,W\text{-}avg}$ = average weekly chlorpyrifos effluent concentration in µg/L.

x. **Methylmercury**

(a) **Applicable to the City of Lodi, White Slough Water Pollution Control Facility. Effective 31 December 2030,** the effluent calendar year annual methylmercury load shall not exceed 0.94 grams, in accordance with the Delta Mercury Control Program.

(b) **Applicable to the City of Manteca and Dutra Farms, Inc., Wastewater Quality Control Facility. Effective 31 December 2030,** the effluent calendar year annual methylmercury load shall not exceed 0.38 grams, in accordance with the Delta Mercury Control Program.

xi. **Total Mercury**

(a) **Applicable if Total Maximum Daily Load (TMDL) Planned After Year 2021.** If the Discharger discharges to a receiving water that is listed as impaired for mercury on the CWA 303(d) list of impaired water bodies and the Central Valley Water Board plans to adopt a TMDL after the year 2021, the total annual mass discharge of total mercury shall not exceed the effluent limitation specified in the Notice of Applicability from the Executive Officer. The performance-based effluent limitation for total mercury shall be determined using Table 21 or the final effluent limitation contained in the Discharger's individual NPDES permit, whichever is more stringent.

Table 21. Effluent Limitations – Total Mercury (If TMDL Planned After Year 2021)

Conditions[1]		Annual Mass Loading Limitation (lbs/year)
Design ADWF	**Mercury MEC (µg/L)**	
ADWF < 1 MGD	0.01 < MEC ≤ 0.05	0.15
	0.001 < MEC ≤ 0.01	0.030
	MEC ≤ 0.001	0.0030
1 < ADWF < 5	0.01 < MEC ≤ 0.05	0.75
	0.001 < MEC ≤ 0.01	0.15
	MEC ≤ 0.001	0.015
5 < ADWF < 10	0.01 < MEC ≤ 0.05	1.5
	0.001 < MEC ≤ 0.01	0.30

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Conditions[1]		Annual Mass Loading Limitation (lbs/year)
Design ADWF	**Mercury MEC (µg/L)**	
	MEC ≤ 0.001	0.030
10 < ADWF < 15	0.01 < MEC ≤0.05	2.3
	0.001 < MEC ≤ 0.01	0.46
	MEC ≤ 0.001	0.046
15 < ADWF < 20	0.01 < MEC ≤ 0.05	3.0
	0.001 < MEC ≤ 0.01	0.61
	MEC ≤ 0.001	0.061

[1] ADWF – Average dry weather flow
MEC – Maximum effluent concentration

xii. **Temperature**

(a) **Applicable to Discharges in the Sacramento-San Joaquin Delta.** For discharges within the legal boundaries of the Sacramento-San Joaquin Delta, except the City of Lodi White Slough Water Pollution Control Facility, the maximum temperature of the discharge shall not exceed the natural receiving water temperature by more than 20°F as specified in the Notice of Applicability.

2. Interim Effluent Limitations

a. **Total Mercury**

i. **Applicable to the City of Lodi, White Slough Water Pollution Control Facility. Effective upon issuance of the Notice of Applicability and until 30 December 2030,** the effluent calendar year annual total mercury load shall not exceed 23 grams/year. This interim effluent limitation shall apply in lieu of the final effluent limitation for methylmercury (Section V.A.1.c.x(a)).

ii. **Applicable to the City of Manteca and Dutra Farms, Inc., Wastewater Quality Control Facility. Effective upon issuance of the Notice of Applicability and until 30 December 2030,** the effluent calendar year annual total mercury load shall not exceed 90 grams/year. This interim effluent limitation shall apply in lieu of the final effluent limitation for methylmercury (Section V.A.1.c.x(b)).

iii. **Applicable if Total Maximum Daily Load (TMDL) Planned Before Year 2021.** If the Discharger discharges to a receiving water that is listed as impaired for mercury on the CWA 303(d) list of impaired water bodies and the Central Valley Water Board plans to adopt a TMDL before the year 2021, **effective upon issuance of the Notice of Applicability and until this General Order is amended to implement a wasteload allocation adopted as part of a TMDL for mercury,** the total annual mass discharge of total mercury shall not exceed the effluent limitation specified in the Notice of Applicability from the Executive Officer. The performance-based effluent limitation for total mercury shall be determined using Table 22 or the final effluent limitation contained in the Discharger's individual NPDES permit, whichever is more stringent.

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Table 22. Effluent Limitations – Total Mercury (If TMDL Planned Before Year 2021)

Conditions[1]		Annual Mass Loading Limitation (lbs/year)
Design ADWF	Mercury MEC (µg/L)	
ADWF < 1 MGD	0.01 < MEC ≤ 0.05	0.15
	0.001 < MEC < 0.01	0.030
	MEC < 0.001	0.0030
1 < ADWF < 5	0.01 < MEC ≤ 0.05	0.75
	0.001 < MEC < 0.01	0.15
	MEC < 0.001	0.015
5 < ADWF < 10	0.01 < MEC ≤ 0.05	1.5
	0.001 < MEC < 0.01	0.30
	MEC < 0.001	0.030
10 < ADWF < 15	0.01 < MEC ≤ 0.05	2.3
	0.001 < MEC < 0.01	0.46
	MEC < 0.001	0.046
15 < ADWF < 20	0.01 < MEC ≤ 0.05	3.0
	0.001 < MEC < 0.01	0.61
	MEC < 0.001	0.061

[1] ADWF – Average dry weather flow
MEC – Maximum effluent concentration

B. Land Discharge Specifications

This General Order does not authorize site-specific discharges to land; however this General Order does authorize the use of unlined ponds (e.g., treatment ponds, emergency storage, equalization, polishing) as part of the treatment system for which the specifications are provided in section VII.C.4.c, Pond Operating Specifications, of this General Order. For Dischargers enrolled under this General Order that discharge to land by other means than lined or unlined ponds that are part of the treatment system, or to ponds that are part of the treatment system but are otherwise regulated under separate WDR's, site-specific discharges to land will be regulated through separate WDR's.

C. Recycling Specifications

This General Order does not authorize the production or use of recycled water. For Dischargers enrolled under this General Order that also produce and/or use recycled water, the production and/or use of recycled water will be regulated through separate WDR's, the General Order for Water Recycling Requirements (WQ 2016-0068-DDW), or another applicable water recycling order.

VI. RECEIVING WATER LIMITATIONS

A. Surface Water Limitations

Receiving water limitations are based on water quality objectives contained in the Basin Plans for the Sacramento and San Joaquin River Basins and the Tulare Lake Basin and are a required part of this General Order. Compliance with any amendment or revision to the water quality objectives contained in the Basin Plans adopted by the Central Valley Water Board subsequent to adoption of this General Order is also required. Any discharge authorized for coverage under this General Order shall not cause the following in the receiving water:

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1. **Un-ionized Ammonia.** Un-ionized ammonia to be present in amounts that adversely affect beneficial uses nor to be present in excess of 0.025 mg/L (as N) in water bodies in the Tulare Lake Basin.
2. **Bacteria.** The fecal coliform concentration, based on a minimum of not less than five samples for any 30-day period, to exceed a geometric mean of 200 MPN/100 mL, nor more than 10 percent of the total number of fecal coliform samples taken during any 30-day period to exceed 400 MPN/100 mL in water bodies with the beneficial use of REC-1.
3. **Biostimulatory Substances.** Water to contain biostimulatory substances which promote aquatic growths in concentrations that cause nuisance or adversely affect beneficial uses.
4. **Chemical Constituents.** Chemical constituents to be present in concentrations that adversely affect beneficial uses.
5. **Color.** Discoloration that causes nuisance or adversely affects beneficial uses.
6. **Dissolved Oxygen:**
   a. For water bodies outside the Sacramento-San Joaquin Delta and for water bodies in the Tulare Lake Basin:
      i. The monthly median of the mean daily dissolved oxygen concentration to fall below 85 percent of saturation in the main water mass;
      ii. The 95 percentile dissolved oxygen concentration to fall below 75 percent of saturation; and
      iii. The dissolved oxygen concentration to be reduced below 5.0 mg/L at any time for water bodies designated as warm freshwater habitat (WARM); or
      iv. The dissolved oxygen concentration to be reduced below 7.0 mg/L at any time for water bodies designated as cold freshwater habitat (COLD) and/or spawning, reproduction, and/or early development (SPWN).
   b. Within the legal boundaries of the Sacramento-San Joaquin Delta, the dissolved oxygen concentrations shall not be reduced below:
      i. 7.0 mg/L in the Sacramento River (below the I Street Bridge) and in all Delta waters west of the Antioch Bridge;
      ii. 6.0 mg/L in the San Joaquin River (between Turner Cut and Stockton, 1 September through 30 November); and
      iii. 5.0 mg/L in all other Delta waters except those bodies of water which are constructed for special purposes and from which fish have been excluded or where the fishery is not important as a beneficial use.
7. **Floating Material.** Floating material to be present in amounts that cause nuisance or adversely affect beneficial uses.
8. **Oil and Grease.** Oils, greases, waxes, or other materials to be present in concentrations that cause nuisance, result in a visible film or coating on the surface of the water or on objects in the water, or otherwise adversely affect beneficial uses.
9. **pH:**
   a. The pH to be depressed below 6.5 or raised above 8.5 for water bodies in the Sacramento and San Joaquin River Basins (except Goose Creek).
   b. The pH to be depressed below 7.5 nor raised above 9.5 within Goose Creek.

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c. The pH to be depressed below 6.5, raised above 8.3, nor changed by more than 0.3 units for water bodies in the Tulare Lake Basin.

10. **Pesticides:**

a. Pesticides to be present, individually or in combination, in concentrations that adversely affect beneficial uses;

b. Pesticides to be present in bottom sediments or aquatic life in concentrations that adversely affect beneficial uses;

c. Total identifiable persistent chlorinated hydrocarbon pesticides to be present in the water column at concentrations detectable within the accuracy of analytical methods approved by U.S. EPA or the Executive Officer for water bodies in the Sacramento and San Joaquin River Basins or prescribed in Standard Methods for the Examination of Water and Wastewater, 18th Edition, or other equivalent methods approved by the Executive Officer for water bodies in the Tulare Lake Basin designated as COLD;

d. Pesticide concentrations to exceed those allowable by applicable antidegradation policies (see State Water Board Resolution No. 68-16 and 40 C.F.R. 131.12.) for water bodies in the Sacramento and San Joaquin River Basins;

e. Pesticide concentrations to exceed the lowest levels technically and economically achievable for water bodies in the Sacramento and San Joaquin River Basins;

f. Pesticides to be present in concentration in excess of the maximum contaminant levels (MCL's) set forth in CCR, Title 22, division 4, chapter 15 for water bodies in the Sacramento and San Joaquin River Basins or specified in Table 64444-A (Organic Chemicals) of section 64444 of Title 22 of the CCR for water bodies in the Tulare Lake Basin designated as municipal and domestic supply (MUN); nor

g. Thiobencarb to be present in excess of 1.0 µg/L for water bodies in the Sacramento and San Joaquin River Basins designated MUN.

11. **Radioactivity:**

a. Radionuclides to be present in concentrations that are harmful or deleterious to human, plant, animal, or aquatic life nor that result in the accumulation of radionuclides in the food web to an extent that presents a hazard to human, plant, animal, or aquatic life.

b. Radionuclides to be present in excess of the MCL's specified in Table 64442 of section 64442 and Table 64443 of section 64443 of Title 22 of the California Code of Regulations for water bodies designated as MUN.

12. **Suspended Sediments.** The suspended sediment load and suspended sediment discharge rate of surface waters to be altered in such a manner as to cause nuisance or adversely affect beneficial uses.

13. **Settleable Substances.** Substances to be present in concentrations that result in the deposition of material that causes nuisance or adversely affects beneficial uses.

14. **Suspended Material.** Suspended material to be present in concentrations that cause nuisance or adversely affect beneficial uses.

15. **Taste and Odors.** Taste- or odor-producing substances to be present in concentrations that impart undesirable tastes or odors to fish flesh or other edible products of aquatic origin, or that cause nuisance, or otherwise adversely affect beneficial uses or domestic or municipal water supplies.

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16. **Temperature.** Where receiving water temperature limitations apply, as specified in the Notice of Applicability:

    a. For water bodies outside the legal boundaries of the Sacramento-San Joaquin Delta, except as specified below, the natural temperature shall not be increased by more than 5°F.

    b. For water bodies within the legal boundaries of the Sacramento-San Joaquin Delta, except as specified below, the discharge shall not cause the following in the water body:

        i. The creation of a zone, defined by water temperatures of more than 1°F above natural receiving water temperature, which exceeds 25 percent of the cross-sectional area of the river channel at any point.

        ii. A surface water temperature rise greater than 4°F above the natural temperature of the receiving water at any time or place.

    c. For the City of Roseville, Pleasant Grove Wastewater Treatment Plant, the discharge shall not cause the temperature at Monitoring Location RSW-002 in Pleasant Grove Creek to exceed the following:

Table 23. Temperature Receiving Water Limitations for Pleasant Grove Creek

Period	Period Maximum (°F)[1]	Period Average (°F)[2]
January and February	69	64
March	70	67
April	74	70
May	78	75
June	81	77
July - September	83	80
October	81	77
November	77	72
December	70	65

[1] Instantaneous maximum not to be exceeded in period.
[2] Arithmetic average of measurements not to be exceeded in period.

    d. For the City of Roseville, Dry Creek Wastewater Treatment Plant, the discharge shall not cause the following in Dry Creek:

        i. The natural temperature to be increased by more than 5°F. Compliance to be determined based on the difference in temperature at Monitoring Locations RSW-001 and RSW-002.

        ii. The natural temperature at Monitoring Location RSW-002 to exceed a daily average temperature of 15.6°C (60°F) and a daily maximum temperature of 16.7°C (62°F) between 1 November through 31 March.

    e. For the El Dorado Irrigation District, Deer Creek Wastewater Treatment Plant, the discharge due to controllable factors shall not cause the temperature at Monitoring Location RSW-002 in Deer Creek to exceed the objectives specified below:

Table 24. Temperature Receiving Water Limitations for Deer Creek

Period	Daily Maximum (°F)[1]	Monthly Average (°F)[2]
January and February	63	58
March	65	60

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Period	Daily Maximum (°F)[1]	Monthly Average (°F)[2]
April	71	64
May	77	68
June	81	74
July through September	81	77
October	77	72
November	73	65
December	65	58

[1] Maximum not to be exceeded.
[2] Defined as a calendar month average.

f. For the City of Placerville, Hangtown Creek Water Reclamation Facility, the annual average ambient temperature to be increased by more than 5°F and the discharge to cause exceedance of the limitations in Table 25 in Hangtown Creek at Monitoring Location RSW-002.

Table 25. Temperature Receiving Water Limitations for Hangtown Creek

Period	Instantaneous Maximum (°F)	Weekly Average (°F)
1 December through 30 April	--	58
1 May through 31 May	--	67
1 June through 15 October	77	72
16 October through 30 November	--	67

g. For the City of Atwater, Regional Wastewater Treatment Facility, the discharge shall not cause the temperature, as measured at RSW-002 (location as specified in the Notice of Applicability), to be raised above the following in Peck/Atwater Drain:

i. Above 90°F for the months of June, July, August, and September.

ii. Above 85°F for the months of April, May, and October;

iii. Above 80°F for the month of November; nor

iv. Above 77°F for the months of December, January, February, and March.

h. For the City of Merced, Wastewater Treatment Facility, the discharge shall not cause the following in Hartley Slough:

i. The temperature to be increased by more than 5°F on an average annual basis;

ii. The daily average temperature to exceed 89°F at any time: nor

iii. The average temperature to exceed the following:

(a) 77°F from 1 June through 15 June;

(b) 76°F from 16 May through 31 May;

(c) 75°F from 1 May through 15 May;

(d) 74°F from 16 April through 30 April; and

(e) 73°F from 1 April through 15 April.

i. For the City of Lodi, White Slough Water Pollution Control Facility, the discharge shall not cause an instantaneous temperature measured at RSW-001 of:

i. 86°F for the period of May through October; or

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ii. 80°F for the month of April; or

iii. 75°F for the months of March and November; or

iv. 68°F for the period of December through February.

17. **Toxicity.** Toxic substances to be present, individually or in combination, in concentrations that produce detrimental physiological responses in human, plant, animal, or aquatic life.

18. **Turbidity.** Waters shall be free of changes in turbidity that cause nuisance or adversely affect beneficial uses.

    a. For water bodies in the Sacramento and San Joaquin River Basins, except Deer Creek (source to Cosumnes River), turbidity:

        i. Shall not exceed 2 Nephelometric Turbidity Units (NTU) where natural turbidity is less than 1 NTU;

        ii. Shall not increase more than 1 NTU where natural turbidity is between 1 and 5 NTUs;

        iii. Shall not increase more than 20 percent where natural turbidity is between 5 and 50 NTUs;

        iv. Shall not increase more than 10 NTU where natural turbidity is between 50 and 100 NTUs; nor

        v. Shall not increase more than 10 percent where natural turbidity is greater than 100 NTUs.

    b. For Deer Creek (source to Cosumnes River), turbidity:

        i. When the dilution ratio for discharges is less than 20:1:

            (a) Where natural turbidity is less than 1 NTU, discharges shall not cause the receiving water daily average turbidity to exceed 2 NTUs or daily maximum turbidity to exceed 5 NTUs; and

            (b) Where natural turbidity is between 1 and 5 NTUs, discharges shall not cause receiving water daily average turbidity to increase more than 1 NTU or daily maximum turbidity to exceed 5 NTUs.

            (c) Where natural turbidity is between 5 and 50 NTUs, receiving water increases due to the discharge shall not exceed 20 percent;

            (d) Where natural turbidity is between 50 and 100 NTUs, receiving water increases due to the discharge shall not exceed 10 NTUs; and

            (e) Where natural turbidity is greater than 100 NTUs, receiving water increases due to the discharge shall not exceed 10 percent.

        ii. Where the dilution ratio for discharges is 20:1 or greater:

            (a) Where natural turbidity is between 0 and 5 NTUs, increases shall not exceed 1 NTU;

            (b) Where natural turbidity is between 5 and 50 NTUs, receiving water increases due to the discharge shall not exceed 20 percent;

            (c) Where natural turbidity is between 50 and 100 NTUs, receiving water increases due to the discharge shall not exceed 10 NTUs; and

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(d) Where natural turbidity is greater than 100 NTUs, receiving water increases due to the discharge shall not exceed 10 percent.

c. For water bodies in the Tulare Lake Basin, turbidity shall not increase:

i. More than 1 NTU where natural turbidity is between 0 and 5 NTUs.

ii. More than 20 percent where natural turbidity is between 5 and 50 NTUs.

iii. More than 10 NTU where natural turbidity is between 50 and 100 NTUs.

iv. More than 10 percent where natural turbidity is greater than 100 NTUs.

B. Groundwater Limitations

Release of waste constituents from any storage, treatment, or disposal component associated with the Facility shall not cause the underlying groundwater to contain waste constituents in concentrations greater than background water quality or water quality objectives, whichever is greater.

VII. PROVISIONS

A. Standard Provisions

1. All Dischargers authorized to discharge under this General Order shall comply with all Standard Provisions (federal NPDES standard conditions from 40 C.F.R. part 122) included in Attachment D of this General Order.

2. All Dischargers authorized to discharge under this General Order shall comply with the following provisions. In the event that there is any conflict, duplication, or overlap between provisions specified by this General Order, the more stringent provision shall apply:

a. If the Discharger's wastewater treatment plant is publicly owned or subject to regulation by California Public Utilities Commission, it shall be supervised and operated by persons possessing certificates of appropriate grade according to Title 23, CCR, division 3, chapter 26.

b. After notice and opportunity for a hearing, this General Order may be terminated or modified for cause, including, but not limited to:

i. violation of any term or condition contained in this General Order;

ii. obtaining this General Order by misrepresentation or by failing to disclose fully all relevant facts;

iii. a change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge; and

iv. a material change in the character, location, or volume of discharge.

The causes for modification include:

i. *New regulations.* New regulations have been promulgated under section 405(d) of the CWA, or the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued.

ii. *Land application plans.* When required by a permit condition to incorporate a land application plan for beneficial reuse of sewage sludge, to revise an existing land application plan, or to add a land application plan.

iii. *Change in sludge use or disposal practice.* Under 40 C.F.R. section 122.62(a)(1), a change in the Discharger's sludge use or disposal

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