

**ADOPTED PERMANENT REGULATION OF THE
NEVADA STATE ENVIRONMENTAL COMMISSION**

LCB File No. R104-00

October 4, 2000

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Authority: §§ 1-16, NRS 445A.425 and 445A.520.

Section 1. Chapter 445A of NAC is hereby amended by adding thereto the provisions set forth as section 2 to 5, inclusive, of this regulation.

Sec. 2. Water quality standards established in NAC 445A.070 to 445A.348 must not be construed to amend, modify or supersede rights to quantities of water which have been established by the state engineer or by applicable court decree.

Sec. 3. The standards of water quality for the Walker Lake are prescribed in Section 4 of this regulation.

The beneficial uses for this area are:

1. Recreation involving contact with the water;
2. Recreation not involving contact with water;
3. Propagation of wildlife; and
4. Propagation of aquatic life, and more specifically, the species of major concern are the tui chub, the Tahoe sucker and adult and juvenile Lahontan cutthroat trout.

Sec. 4.

STANDARDS OF WATER QUALITY

Walker Lake

Control Point at Sportsman's Beach. The limits of this table apply only to Walker Lake at Sportsman's Beach.

	CONCENTRATION	FREQUENCY	STANDARD
Temperature	-	1#EC	BPC
pH	-	W SU	BPC BPC BPC BPC
Dissolved Oxygen	-	5%	BPC BPC BPC BPC
Total Suspended Solids	-	#/m	BPC
Total Phosphorus	#/m	#/m	BPC
Total Nitrogen	#/m	#/m	BPC
Total Chloride	-	#/m	BPC
Total Sulfate	-	#/m	BPC
Total Hardness	-	#/m	BPC
Bacteria	-	#/m	BPC
Bacteria	-	#/m #/m	BPC BPC

a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone.

b. TIN annual average computed for calendar year.

[Because Walker Lake is a body of water without a natural outlet, the commission recognizes that water quality can be significantly impacted by climatic conditions and thus that attainment of standards may not be achievable at all times.]

STANDARDS OF WATER QUALITY

East Walker River

Control Point at the East Walker River at Bridge B-1475. The limits of this table apply only to the East Walker River at Bridge B-1475 to the East Walker River at the state line.

	100	Nov.-Apr.: #13EC May-Jun.: #17EC Jul.-Oct.: #23EC IT #2EC ^a	
	-	^a	
	-	#0	
	#0	#0 #0 #0	
	-	#0 #0	
	-	#0	
	-	B	
	-	#0	
	#0 #0	#0	
	#0 #0	#0	
	-	#0	

<p>1. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.</p>	-	# 8	<p>1. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.</p>
<p>2. Increase in turbidity must not be more than 10 NTU above natural conditions.</p>	-		<p>2. Increase in turbidity must not be more than 10 NTU above natural conditions.</p>
<p>3. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.</p>	-		<p>3. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.</p>

a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

b. Increase in turbidity must not be more than 10 NTU above natural conditions.

Sec. 6. NAC 445A.159 is hereby amended to read as follows:

445A.159 The standards of water quality for the Walker River from Walker Lake to the state line are prescribed in NAC 445A.160 to 445A.169, inclusive~~[-]~~, and section 5 of this regulation. The beneficial uses for this area are:

1. Irrigation;
2. Watering of livestock;
3. Recreation involving contact with the water;
4. Recreation not involving contact with water;
5. Industrial supply;
6. Municipal or domestic supply, or both;
7. Propagation of wildlife; and
8. Propagation of aquatic life, and more specifically, the species of major concern are:
 - (a) In the West Walker River at the state line, mountain whitefish, rainbow trout and brown trout;
 - (b) In Topaz Lake, rainbow trout, cutthroat trout, brown trout, ~~kokone~~ kokanee salmon and silver salmon;
 - (c) In the West Walker River from Wellington to the state line, mountain whitefish, rainbow trout and brown trout;
 - (d) In the West Walker River from its confluence with the East Walker River to Wellington, brown trout and rainbow trout;
 - (e) In Sweetwater Creek, brown trout, brook trout, mountain whitefish and rainbow trout;
 - (f) In the East Walker River at the state line, mountain ~~white fish,~~ whitefish, rainbow trout and brown trout;
 - (g) In the East Walker River from Bridge B-1475 to the state line, mountain whitefish, brown trout and rainbow trout;
 - (h) In the East Walker River from its confluence with the West Walker River ~~to the state line,~~ to Bridge B-1475, brown trout and rainbow trout;
 - ~~(h)~~(i) In the Walker River from Weber Reservoir to the confluence of the East Walker River and West Walker River, channel catfish and largemouth bass;
 - ~~(j)~~(j) In the Walker River from the inlet to Walker Lake to Weber Reservoir~~[-, channel catfish,-]~~:
 - (1) Year round, channel catfish and largemouth bass~~[-]~~; and
 - (2) From February through June, adult Lahontan cutthroat trout ~~from April through May,~~ and adult rainbow trout ~~from April through June,~~ and
 - ~~(j)~~; and
 - (k) In Desert Creek, brown trout, brook trout and rainbow trout.

Sec. 7. NAC 445A.160 is hereby amended to read as follows:

445A.160

STANDARDS OF WATER QUALITY

West Walker River at state line

Control Point at the West Walker River at the state line. The limits of this table apply only to the West Walker River at the state line.

-			-
-		-	-
-			-
-	-	-	-
		-	-
-	-	-	-
-			-
-			-
-	-	-	-
-	-	-	-
-		-	-
-		-	-

-			-
-	-		-

.			-
-		-	-
-		-	-
-		-	-
-	-	-	-

Control Point at the West Walker River near Wellington. The limits of this table apply from the West Walker River near Wellington to the West Walker River at the state line.

-			-
-		-	-
-	-	-	-
-	-	-	-
-		-	-
-		-	-
-		-	-
-		-	-
-	-	-	-
-	-	-	-

	-	87	b
	-	8	b
	-		b
	-		b

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~The most restrictive beneficial use.~~
- c. ~~Increase in color must not be more than 10 PCU above natural conditions.~~
- d. ~~Increase in turbidity must not be more than 10 NTU above natural conditions.~~
- e. ~~Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.~~

Sec. 10. NAC 445A.163 is hereby amended to read as follows:

445A.163

STANDARDS OF WATER QUALITY

West Walker River *above confluence with East Walker River at Nordyke Road*

Control Point at the West Walker River above the confluence with the East Walker River at Nordyke Road. The limits of this table apply to the West Walker River above its confluence with the East Walker River to the control point mentioned in NAC 445.162(near Wellington).

			b
	-		b b
	87	87	b b

Temperature	≤ 1.0	8	b
Temperature	-	8	b
Color	-	8	b
Turbidity	-	10	b
Fecal coliform	-	200	b

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~The most restrictive beneficial use:~~
- c. ~~Increase in color must not be more than 10 PCU above natural conditions.~~
- d. ~~Increase in turbidity must not be more than 10 NTU above natural conditions.~~
- e. ~~Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.~~

Sec. 12. NAC 445A.165 is hereby amended to read as follows:

445A.165

STANDARDS OF WATER QUALITY

East Walker River *at state line*

Control Point at the East Walker River at the state line. The limits of this table apply only to the East Walker River at the state line.

Temperature	≤ 1.0	8	b
Color	-	8	b
Turbidity	-	10	b
Fecal coliform	-	200	b

<p>1. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.</p>	<p>2. [The most restrictive beneficial use:</p>	<p>3. Increase in color must not be more than 10 PCU above natural conditions:</p>	<p>4. Increase in turbidity must not be more than 10 NTU above natural conditions.</p>
<p>5. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.]</p>	<p>6.</p>	<p>7.</p>	<p>8.</p>
<p>9.</p>	<p>10.</p>	<p>11.</p>	<p>12.</p>
<p>13.</p>	<p>14.</p>	<p>15.</p>	<p>16.</p>
<p>17.</p>	<p>18.</p>	<p>19.</p>	<p>20.</p>
<p>21.</p>	<p>22.</p>	<p>23.</p>	<p>24.</p>
<p>25.</p>	<p>26.</p>	<p>27.</p>	<p>28.</p>
<p>29.</p>	<p>30.</p>	<p>31.</p>	<p>32.</p>
<p>33.</p>	<p>34.</p>	<p>35.</p>	<p>36.</p>
<p>37.</p>	<p>38.</p>	<p>39.</p>	<p>40.</p>
<p>41.</p>	<p>42.</p>	<p>43.</p>	<p>44.</p>
<p>45.</p>	<p>46.</p>	<p>47.</p>	<p>48.</p>
<p>49.</p>	<p>50.</p>	<p>51.</p>	<p>52.</p>
<p>53.</p>	<p>54.</p>	<p>55.</p>	<p>56.</p>
<p>57.</p>	<p>58.</p>	<p>59.</p>	<p>60.</p>
<p>61.</p>	<p>62.</p>	<p>63.</p>	<p>64.</p>
<p>65.</p>	<p>66.</p>	<p>67.</p>	<p>68.</p>
<p>69.</p>	<p>70.</p>	<p>71.</p>	<p>72.</p>
<p>73.</p>	<p>74.</p>	<p>75.</p>	<p>76.</p>
<p>77.</p>	<p>78.</p>	<p>79.</p>	<p>80.</p>
<p>81.</p>	<p>82.</p>	<p>83.</p>	<p>84.</p>
<p>85.</p>	<p>86.</p>	<p>87.</p>	<p>88.</p>
<p>89.</p>	<p>90.</p>	<p>91.</p>	<p>92.</p>
<p>93.</p>	<p>94.</p>	<p>95.</p>	<p>96.</p>
<p>97.</p>	<p>98.</p>	<p>99.</p>	<p>100.</p>

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. [The most restrictive beneficial use:
- c. Increase in color must not be more than 10 PCU above natural conditions:
- d.] Increase in turbidity must not be more than 10 NTU above natural conditions.
- e. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.]

Sec. 13. NAC 445A.166 is hereby amended to read as follows:

445A.166

STANDARDS OF WATER QUALITY

East Walker River *south of Yerington*

Control Point at the East Walker River south of Yerington above the confluence with the West Walker River (Nordyke Road).
 The limits of this table apply to the East Walker River south of Yerington above its confluence with the West Walker River to
~~[the state line.]~~ *East Walker River at Bridge B-1475.*

<p>1. Dissolved Oxygen</p>	<p>5 mg/l</p>	<p>5 mg/l</p>	<p>b 10/10/01 10/10/01</p>
<p>2. Total Dissolved Solids</p>	<p>-</p>	<p>500 mg/l</p>	<p>b b 10/10/01 10/10/01 10/10/01 10/10/01</p>
<p>3. Total Suspended Solids</p>		<p>50 mg/l</p>	<p>b b 10/10/01 10/10/01 10/10/01 10/10/01</p>
<p>4. Total Phosphorus</p>	<p>0.1 mg/l</p>	<p>0.1 mg/l</p>	<p>b b 10/10/01 10/10/01 10/10/01 10/10/01 10/10/01 10/10/01</p>
<p>5. Total Nitrogen</p>	<p>-</p>	<p>10 mg/l</p>	<p>b 10/10/01 10/10/01 10/10/01 10/10/01</p>
<p>6. Ammonia Nitrogen</p>	<p>-</p>	<p>1 mg/l</p>	<p>b 10/10/01</p>
<p>7. Nitrate Nitrogen</p>	<p>-</p>	<p>10 mg/l</p>	<p>b 10/10/01 10/10/01</p>
<p>8. Chloride</p>	<p>-</p>	<p>250 mg/l</p>	<p>b 10/10/01 10/10/01</p>

≤21°C during February through June when Lahontan cutthroat trout are present in the reach from Walker Lake to Weber Reservoir.

c. The nitrite beneficial use standard is ≤0.06 mg/l during February through June when Lahontan cutthroat trout are present in the reach from Walker Lake to the Weber Reservoir.

d. Increase in turbidity must not be more than 10 NTU above natural conditions.

~~f. Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.]~~

Sec. 15. NAC 445A.168 is hereby amended to read as follows:

445A.168

STANDARDS OF WATER QUALITY

Walker River *at Schurz Bridge*

Control Point at Schurz Bridge. The limits of this table apply from the inlet to Walker Lake to Weber Reservoir.

<p>1. Dissolved Oxygen</p>	<p>5</p>	<p>5</p>	<p>b</p>
<p>2. Total Dissolved Solids</p>	<p>-</p>	<p>500</p>	<p>b</p>
<p>3. Total Suspended Solids</p>		<p>≤ 50</p>	<p>b</p>
<p>4. Total Phosphorus</p>	<p>0.05</p>	<p>0.05</p>	<p>b</p>
<p>5. Total Nitrogen</p>	<p>-</p>	<p>10</p>	<p>b</p>
<p>6. Ammonia Nitrogen</p>	<p>≤ 0.5</p>	<p>0.5</p>	<p>b</p>
<p>7. Nitrate Nitrogen</p>	<p>-</p>	<p>D</p>	<p>b</p>
<p>8. Nitrite Nitrogen</p>	<p>-</p>	<p>≤ 0.1</p>	<p>b</p>
<p>9. Chlorophyll <i>a</i></p>	<p>≤ 0.5</p>	<p>0.5</p>	<p>b</p>

<p> The maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard. </p>	<p> ≤ 21 </p>	<p> 8 </p>	<p> b </p>
<p> The most restrictive beneficial use. </p>	<p> - </p>	<p> 8 </p>	<p> b </p>
<p> Increase in color must not be more than 10 PCU above natural conditions. </p>	<p> 3 </p>	<p> 8 </p>	<p> b </p>
<p> The nitrite beneficial use standard is ≤ 0.06 mg/l during February through June when Lahontan cutthroat trout are present. </p>	<p> - </p>	<p> 8 </p>	<p> b </p>
<p> Increase in turbidity must not be more than 10 NTU above natural conditions. </p>	<p> - </p>	<p> 10 </p>	<p> b </p>

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~[The most restrictive beneficial use:~~
- c. ~~Increase in color must not be more than 10 PCU above natural conditions.] The temperature beneficial use standard is ≤ 21°C during February through June when Lahontan cutthroat trout are present.~~
- c. The nitrite beneficial use standard is ≤ 0.06 mg/l during February through June when Lahontan cutthroat trout are present.
- d. Increase in turbidity must not be more than 10 NTU above natural conditions.
- fe. ~~Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.]~~

<p>1. Temperature</p>	<p>≤ 2.0</p>	<p>2.0</p>	<p>b. [The most restrictive beneficial use:]</p>
<p>2. Increase in temperature</p>	<p>-</p>	<p>2.0</p>	<p>b. [The most restrictive beneficial use:]</p>
<p>3. Increase in color</p>	<p>-</p>	<p>8</p>	<p>b. [The most restrictive beneficial use:]</p>
<p>4. Increase in turbidity</p>	<p>-</p>	<p>10</p>	<p>b. [The most restrictive beneficial use:]</p>
<p>5. Fecal coliform bacterial level</p>	<p>-</p>	<p>200</p>	<p>b. [The most restrictive beneficial use:]</p>

- a. Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.
- b. ~~[The most restrictive beneficial use:]~~
- c. ~~Increase in color must not be more than 10 PCU above natural conditions.~~
- d. ~~Increase in turbidity must not be more than 10 NTU above natural conditions.~~
- e. ~~Based on the minimum of not less than 5 samples taken over a 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 ml nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 ml.~~

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