

# PROPOSED REGULATION OF THE STATE ENVIRONMENTAL COMMISSION

## LCB File No. R093-13

AUTHORITY: §§1-318, NRS 445A.425 and 445A.520.

A REGULATION relating to water quality; making various changes in provisions that establish standards for water quality; and providing other matters properly relating thereto.

### PETITION 2013-05    **Changes to the Nevada Administrative Code (NAC) removing sections of the NAC pertaining to State water quality standards on Federal Indian Reservations**

#### Proposed omissions and changes:

Explanation – Matter in bold blue and italics is *new*; matter in bold red and strikethrough is ~~material to be omitted~~.

#### **NAC 445A.120    Applicability. (NRS 445A.425, 445A.520)**

1. NAC 445A.070 to 445A.2234, inclusive, apply to all natural streams and lakes, reservoirs or impoundments on natural streams and other specified waterways, unless excepted on the basis of existing irreparable conditions which preclude such use. Man-made waterways, unless otherwise specified, must be protected for public health and the use for which the waterways were developed.

2. The quality of any waters receiving waste discharges must be such that no impairment of the beneficial usage of water occurs as the result of the discharge. Natural water conditions may, on occasion, be outside the limits established by standards. The standards adopted in NAC 445A.070 to 445A.2234, inclusive, relate to the condition of waters as affected by discharges relating to human activities.

***3. NAC 445A.11704 to 445A.2234, inclusive, do not apply to waters within the exterior borders of Federal Indian Reservations.***

~~NAC 445A.1294 – Black Rock Region: Summit Lake. (NRS 445A.425, 445A.520)~~

~~The limits of this table apply to the entire body of water known as Summit Lake. Summit Lake is located in Humboldt County.~~

### STANDARDS OF WATER QUALITY Summit Lake

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Uses										
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
<b>Beneficial Uses</b>			X	X	X	X	X	X	X	X	-	-	-
<b>Aquatic Life Species of Concern</b>			<del>Trout</del>										

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>										
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Temperature—°C $\Delta T^b$ —°C	-	S.V. $\leq 20$ $\Delta T = 0$	-	-	*	X	-	-	-	-	-	-	-
pH—SU	-	S.V. 6.5—9.0	X	X	*	*	-	X	X	*	-	-	-
Total Phosphorus (as P)—mg/l	-	S.V. $\leq 0.10$	-	-	*	*	X	X	-	-	-	-	-
Dissolved Oxygen—mg/l	-	S.V. $\geq 6.0$	X	-	*	X	X	X	-	X	-	-	-
Total Ammonia (as N)—mg/l	-	e	-	-	*	-	-	X	-	-	-	-	-
Total Dissolved Solids—mg/l	-	S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X	-	-	-	*	-	-	-	-	-
E. coli—No./100 ml	-	A.G.M. $\leq 126$ S.V. $\leq 410$	-	-	-	*	X	-	-	-	-	-	-
Fecal Coliform—No./100 ml	-	$\leq 200/400$ d	X	X	-	*	X	X	-	X	-	-	-

\*—The most restrictive beneficial use.

X—Beneficial use.

a—Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

b—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.

c—The ambient water quality criteria for ammonia are specified in NAC 445A.118.

d—Must not exceed a geometric mean of 200 per 100 milliliters based on a minimum of 5 samples during any 30-day period, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 milliliters.

### NAC 445A.1296 Black Rock Region: Mahogany Creek. (NRS 445A.425, 445A.520)

The limits of this table apply to the body of water known as Mahogany Creek from its origin to ~~{Summit Lake}~~ *the exterior border of the Summit Lake Indian Reservation*. Mahogany Creek is located in Humboldt County.

#### STANDARDS OF WATER QUALITY Mahogany Creek

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>										
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X		X			
Aquatic Life Species of Concern													
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 20$ $\Delta T = 0$			*	X							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X		*			
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X					
Dissolved Oxygen - mg/l		S.V. $\geq 6.0$	X		*	X	X	X		X			

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Total Ammonia (as N) - mg/l		c			*				X					
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*					
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X							
Fecal Coliform - No./100 ml		≤ 200/400 <sup>d</sup>	X	X		*	X	X			X			

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1282 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>d</sup> Must not exceed a geometric mean of 200 per 100 milliliters based on a minimum of 5 samples during any 30-day period, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 milliliters.

**NAC 445A.1464 Humboldt Region: Humboldt River, South Fork and tributaries at Lee.**  
(NRS 445A.425, 445A.520)

The limits of this table apply to the bodies of water known as the South Fork of the Humboldt River and its tributaries from their origin to Lee, *except for the lengths of the river and tributaries within the exterior borders of the South Fork Indian Reservation*. This segment of the South Fork of the Humboldt River and tributaries is located in Elko County.

STANDARDS OF WATER QUALITY  
Humboldt River, South Fork and tributaries at Lee

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Beneficial Uses			X	X	X	X	X	X		X				
Aquatic Life Species of Concern														
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X								
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X		*				
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X						
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X		X				
Total Ammonia (as N) - mg/l		c			*			X						

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*						
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X								
Fecal Coliform - No./100 ml		≤ 200/400 <sup>d</sup>	X	X		*	X	X		X					

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>d</sup> Must not exceed a geometric mean of 200 per 100 milliliters based on a minimum of 5 samples during any 30-day period, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 milliliters.

**NAC 445A.1466 Humboldt Region: Humboldt River, South Fork at the Humboldt River.**  
(NRS 445A.425, 445A.520)

The limits of this table apply to the body of water known as the South Fork of the Humboldt River from Lee to its confluence with the Humboldt River, *except for the lengths of the river within the exterior borders of the South Fork Indian Reservation*. This segment of the South Fork of the Humboldt River is located in Elko County.

STANDARDS OF WATER QUALITY  
Humboldt River, South Fork at the Humboldt River

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
Beneficial Uses			X	X	X	X	X	X	X	X	X				
Aquatic Life Species of Concern			Trout.												
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X									
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*					
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X							
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X		X					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*						

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X							
Fecal Coliform - No./100 ml		≤ 200/400 <sup>d</sup>	X	X		*	X	X		X				

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>d</sup> Must not exceed a geometric mean of 200 per 100 milliliters based on a minimum of 5 samples during any 30-day period, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 milliliters.

**NAC 445A.1556 Humboldt Region: Reese ~~Creek~~ River at Indian Creek.** (NRS 445A.425, 445A.520)

The limits of this table apply to the body of water known as *the* Reese ~~Creek~~ River from its origin to its confluence with Indian Creek, *except for the length of the river within the exterior borders of the Yomba Indian Reservation.* This segment of the Reese ~~Creek~~ River is located in Nye County.

**STANDARDS OF WATER QUALITY  
Reese ~~Creek~~ River at Indian Creek**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Beneficial Uses			X	X	X	X	X	X		X				
Aquatic Life Species of Concern														
Temperature - °C $\Delta T^b$ - °C		S.V. ≤ 20 $\Delta T = 0$			*	X								
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X		*				
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X						
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X		X				
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X						
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X				*						
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X							

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Fecal Coliform - No./100 ml		≤ 200/400 <sup>d</sup>	X	X		*	X	X		X				

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>d</sup> Must not exceed a geometric mean of 200 per 100 milliliters based on a minimum of 5 samples during any 30-day period, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 milliliters.

**NAC 445A.1558 Humboldt Region: Reese River at State Route 722.** (NRS 445A.425, 445A.520)

The limits of this table apply to the body of water known as the Reese River from its confluence with Indian Creek to State Route 722 (old U.S. Highway 50), *except for the lengths of the river within the exterior borders of the Yomba Indian Reservation*. This segment of the Reese River is located in Lander and Nye Counties.

STANDARDS OF WATER QUALITY  
Reese River at State Route 722

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Beneficial Uses			X	X	X	X	X	X	X	X				
Aquatic Life Species of Concern			Trout.											
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X								
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*				
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X						
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X		X				
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X						
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X				*						
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X							
Fecal Coliform - No./100 ml		≤ 200/400 <sup>d</sup>	X	X		*	X	X		X				

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>d</sup> Must not exceed a geometric mean of 200 per 100 milliliters based on a minimum of 5 samples during any 30-day period, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 milliliters.

**NAC 445A.1694 Truckee Region: Truckee River at the ~~Wadsworth Gage~~ Pyramid Lake Paiute Reservation.** (NRS 445A.425, 445A.520)

The limits of this table apply to the body of water known as the Truckee River from Derby Dam to the ~~Wadsworth Gage~~ exterior border of the Pyramid Lake Paiute Reservation. This segment of the Truckee River is located in Storey and Washoe Counties.

STANDARDS OF WATER QUALITY

Truckee River at the ~~Wadsworth Gage~~ Pyramid Lake Paiute Reservation

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>														
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
Beneficial Uses			X	X	X	X	X	X	X	X	X						
Aquatic Life Species of Concern			Early spring spawning Lahontan cutthroat and their incubation, larvae, juveniles and migration, from May through June, depending on hydrologic conditions.														
Temperature - °C $\Delta T^b$ - °C	$\Delta T = 0$	S.V. Nov-Mar $\leq 13^c$ S.V. Apr-Jun $\leq 14^c$ S.V. Jul-Oct $\leq 25^d$ $\Delta T \leq 2$			*	X											
pH - SU	S.V. 7.1 - 8.6	S.V. 6.5 - 9.0 $\Delta pH \pm 0.5$	X	X	X	*		X	X	*							
Total Phosphates (as P) - mg/l		A-Avg. $\leq 0.05$			*	*	X	X									
Nitrogen Species (as N) - mg/l		Total N A-Avg. $\leq 0.75$ Total N S.V. $\leq 1.2$ Nitrate S.V. $\leq 2.0$ Nitrate S.V. $\leq 0.04$			*	*	X	X									
Total Ammonia (as N) - mg/l		<sup>e</sup>			*												
Dissolved Oxygen - mg/l		S.V. Nov-Jun $\geq 6.0$ S.V. Jul-Oct $\geq 5.0$	X		*	X	X	X		X							
Suspended Solids - mg/l	A-Avg. $\leq 25.0$	S.V. $\leq 50$			*												
Turbidity - NTU		S.V. $\leq 10$			*			X									
Color - PCU	<sup>f</sup>	S.V. $\leq 75$						*									
Total Dissolved Solids - mg/l	A-Avg. $\leq 245.0$ S.V. $\leq 310.0$	A-Avg. $\leq 500$	X	X				*									
Chlorides - mg/l	A-Avg. $\leq 20.0$ S.V. $\leq 28.0$	S.V. $\leq 250$	X	X				*		X							
Sulfate - mg/l	A-Avg. $\leq 39.0$ S.V. $\leq 46.0$	S.V. $\leq 250$						*									

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
Sodium - SAR	A-Avg. ≤ 1.5 S.V. ≤ 2.0	A-Avg. ≤ 8		*					X						
Alkalinity (as CaCO <sub>3</sub> ) - mg/l		<25% change from natural conditions			*						X				
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X								
Fecal Coliform - No./100 ml	A.G.M. ≤ 50 S.V. ≤ 250	≤ 200/400 <sup>g</sup>	X	X		*	X	X		X					

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1622 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> When flows are adequate to induce spawning runs of cui-ui and Lahontan cutthroat trout, the standard is 13°C from November through March and 14°C from April through June.

<sup>d</sup> The desired temperature for the protection of juvenile Lahontan cutthroat trout is 21°C, even though that temperature is not attainable at all times.

<sup>e</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>f</sup> Increase in color must not be more than 10 PCU above natural conditions.

<sup>g</sup> 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 milliliters, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 milliliters.

~~[NAC 445A.16965—Truckee Region: Truckee River at Pyramid Lake. (NRS 445A.425, 445A.520)~~

~~The limits of this table apply to the body of water known as the Truckee River from the Wadsworth Gage to the mouth of the Truckee River at Pyramid Lake. This segment of the Truckee River is located in Washoe County.~~

### ~~STANDARDS OF WATER QUALITY Truckee River at Pyramid Lake~~

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
<del>Beneficial Uses</del>			<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>X</del>	<del>-</del>	<del>-</del>	<del>-</del>	<del>-</del>	<del>-</del>
<del>Aquatic Life Species of Concern</del>			<del>Early spring spawning Lahontan cutthroat trout and cui-ui, and their incubation, larvae, juveniles and migration, from May through June, depending on hydrologic conditions.</del>												
<del>Temperature—°C ΔTb—°C</del>	<del>ΔT=0</del>	<del>S.V. Nov-Mar ≤ 13e S.V. Apr-Jun ≤ 14e S.V. Jul-Oct ≤ 25d ΔT ≤ 2</del>	<del>-</del>	<del>-</del>	<del>*</del>	<del>X</del>	<del>-</del>	<del>-</del>	<del>-</del>	<del>-</del>	<del>-</del>	<del>-</del>	<del>-</del>	<del>-</del>	<del>-</del>



PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>										
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
pH—SU	S.V. 7.3—9.0	S.V. 6.5—9.0 ΔpH ≤ 0.5	X	X	X	*	-	X	X	*	-	-	-
Total Phosphates (as P)—mg/l	-	A-Avg. ≤ 0.05	-	-	*	*	X	X	-	-	-	-	-
Nitrogen Species (as N)—mg/l	-	Total N A-Avg. ≤ 0.75 Total N S.V. ≤ 1.2 Nitrate S.V. ≤ 2.0 Nitrite S.V. ≤ 0.04 Ammonia S.V. ≤ 0.02 (unionized)	-	-	*	*	X	X	-	-	-	-	-
Dissolved Oxygen—mg/l	-	S.V. Nov-Jun ≥ 6.0 S.V. Jul-Oct ≥ 5.0	X	-	*	X	X	X	-	X	-	-	-
Suspended Solids—mg/l	A-Avg. ≤ 25.0	S.V. ≤ 50	-	-	*	-	-	-	-	-	-	-	-
Turbidity—NTU	-	S.V. ≤ 10	-	-	*	-	-	X	-	-	-	-	-
Color—PCU	e	S.V. ≤ 75	-	-	-	-	-	*	-	-	-	-	-
Total Dissolved Solids—mg/l	A-Avg. ≤ 415.0	A-Avg. ≤ 500	X	X	-	-	-	*	-	-	-	-	-
Chlorides—mg/l	A-Avg. ≤ 105.0 S.V. ≤ 130.0	S.V. ≤ 250	X	X	-	-	-	*	-	X	-	-	-
Sulfate—mg/l	A-Avg. ≤ 85.0 S.V. ≤ 106.0	S.V. ≤ 250	-	-	-	-	-	*	-	-	-	-	-
Sodium—SAR	A-Avg. ≤ 2.4 S.V. ≤ 2.9	A-Avg. ≤ 8	-	*	-	-	-	X	-	-	-	-	-
Alkalinity (as CaCO <sub>3</sub> )—mg/l	-	<25% change from natural conditions	-	-	-	*	X	-	-	-	-	-	-
Fecal Coliform—No./100 ml	A.G.M. ≤ 40 S.V. ≤ 250	≤ 200/400 f	X	X	-	*	X	X	-	X	-	-	-

\* = The most restrictive beneficial use.

X = Beneficial use.

a — Refer to NAC 445A.122 and 445A.1622 for beneficial use terminology.

b — 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.

c — When flows are adequate to induce spawning runs of cui-ui and Lahontan cutthroat trout, the standard is 13°C from November through March and 14°C from April through June.

d — The desired temperature for the protection of juvenile Lahontan cutthroat trout is 21°C, even though that temperature is not attainable at all times.

e — Increase in color must not be more than 10 PCU above natural conditions.

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

### NAC 445A.1804 Carson Region: Carson River, East Fork at U.S. Highway 395 south of Gardnerville. (NRS 445A.425, 445A.520)

The limits of this table apply to the body of water known as the East Fork of the Carson River from the California-Nevada state line to the Riverview Mobile Home Park at U.S. Highway 395 south of Gardnerville, *except for the lengths of the river within the exterior*

*borders of the Washoe Indian Reservation.* This segment of the East Fork of the Carson River is located in Douglas County.

**STANDARDS OF WATER QUALITY**  
**Carson River, East Fork at U.S. Highway 395 south of Gardnerville**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>														
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
Beneficial Uses			X	X	X	X	X	X	X	X	X						
Aquatic Life Species of Concern			Rainbow trout and brown trout.														
Temperature - °C ΔT <sup>b</sup> - °C	ΔT = 0	S.V. Nov-May ≤ 13 S.V. Jun ≤ 17 S.V. Jul ≤ 21 S.V. Aug-Oct ≤ 22 ΔT ≤ 2			*	X											
pH - SU	S.V. 7.5 – 8.6	S.V. 6.5 - 9.0 ΔpH ± 0.5	X	X	X	*		X	X	*							
Total Phosphates (as P) - mg/l		A-Avg. ≤ 0.10			*	*	X	X									
Nitrogen Species (as N) - mg/l	Total Nitrogen A-Avg. ≤ 0.4 S.V. ≤ 0.5	Nitrate S.V. ≤ 10 Nitrite S.V. ≤ 0.06	X		*	X	X	*			X						
Total Ammonia (as N) - mg/l		<sup>c</sup>			*												
Dissolved Oxygen - mg/l		S.V. Nov-May ≥ 6.0 S.V. Jun-Oct ≥ 5.0	X		*	X	X	X			X						
Suspended Solids - mg/l		S.V. ≤ 80			*												
Turbidity - NTU		S.V. ≤ 10			*			X									
Color - PCU	<sup>d</sup>	S.V. ≤ 75						*									
Total Dissolved Solids - mg/l	A-Avg. ≤ 120 S.V. ≤ 175	A-Avg. ≤ 500	X	X				*									
Chlorides - mg/l	A-Avg. ≤ 6 S.V. ≤ 10	S.V. ≤ 250	X	X				*			X						
Sulfate - mg/l		S.V. ≤ 250						*									
Sodium - SAR	A-Avg. ≤ 2	A-Avg. ≤ 8		*				X									
Alkalinity (as CaCO <sub>3</sub> ) - mg/l		< 25% change from natural conditions			*						X						
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X										
Fecal Coliform - No./100 ml	A.G.M. ≤ 20 S.V. ≤ 85	≤ 200/400 <sup>e</sup>	X	X		*	X	X			X						

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1792 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>d</sup> Increase in color must not be more than 10 PCU above natural conditions.

<sup>e</sup> 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 milliliters, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 milliliters.

**NAC 445A.1806 Carson Region: Carson River, East Fork at Muller Lane. (NRS 445A.425, 445A.520)**

The limits of this table apply to the body of water known as the East Fork of the Carson River from the Riverview Mobile Home Park at U.S. Highway 395 to Muller Lane, *except for the lengths of the river within the exterior borders of the Washoe Indian Reservation*. This segment of the East Fork of the Carson River is located in Douglas County.

**STANDARDS OF WATER QUALITY  
Carson River, East Fork at Muller Lane**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern			Rainbow trout and brown trout.													
Temperature - °C ΔT <sup>b</sup> - °C	ΔT = 0	S.V. Nov-May ≤ 13°C S.V. Jun ≤ 17°C S.V. Jul ≤ 21°C S.V. Aug-Oct ≤ 22°C ΔT ≤ 2°C			*	X										
pH - SU	S.V. 7.4 – 8.7	S.V. 6.5 - 9.0 ΔpH ± 0.5	X	X	X	*		X	X	*						
Total Phosphates (as P) - mg/l		A-Avg. ≤ 0.10			*	*	X	X								
Nitrogen Species (as N) - mg/l	Total Nitrogen A-Avg. ≤ 0.5 S.V. ≤ 0.8	Nitrate S.V. ≤ 10 Nitrite S.V. ≤ 0.06	X		*	X	X	*		X						
Total Ammonia (as N) - mg/l		<sup>c</sup>			*											
Dissolved Oxygen - mg/l		S.V. Nov-May ≥ 6.0 S.V. Jun-Oct ≥ 5.0	X		*	X	X	X		X						
Suspended Solids - mg/l		S.V. ≤ 80			*											
Turbidity - NTU		S.V. ≤ 10			*			X								
Color - PCU	<sup>d</sup>	S.V. ≤ 75						*								
Total Dissolved Solids - mg/l	A-Avg. ≤ 180 S.V. ≤ 205	A-Avg. ≤ 500	X	X				*								
Chlorides - mg/l	A-Avg. ≤ 8 S.V. ≤ 10	S.V. ≤ 250	X	X				*		X						
Sulfate - mg/l		S.V. ≤ 250						*								
Sodium - SAR	A-Avg. ≤ 2	A-Avg. ≤ 8		*				X								
Alkalinity (as CaCO <sub>3</sub> ) - mg/l		< 25% change from natural conditions			*					X						
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X									

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Fecal Coliform - No./100 ml	A.G.M. ≤ 50	≤ 200/400 <sup>c</sup>	X	X		*	X	X		X				

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1792 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>d</sup> Increase in color must not be more than 10 PCU above natural conditions.

<sup>e</sup> 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 milliliters, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 milliliters.

**NAC 445A.1812 Carson Region: Carson River at Cradlebaugh Bridge. (NRS 445A.425, 445A.520)**

The limits of this table apply to the body of water known as the Carson River from Genoa Lane to U.S. Highway 395 at Cradlebaugh Bridge, *except for the length of the river within the exterior borders of the Washoe Indian Reservation*. This segment of the Carson River is located in Douglas County.

**STANDARDS OF WATER QUALITY  
Carson River at Cradlebaugh Bridge**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Beneficial Uses			X	X	X	X	X	X	X	X				
Aquatic Life Species of Concern			Catfish, rainbow trout and brown trout.											
Temperature - °C ΔT <sup>b</sup> - °C	ΔT = 0	S.V. Nov-May ≤ 13 S.V. Jun ≤ 17 S.V. Jul-Oct ≤ 23 ΔT ≤ 2			*	X								
pH - SU	S.V. 7.5 – 8.4	S.V. 6.5 - 9.0 ΔpH ± 0.5	X	X	X	*		X	X	*				
Total Phosphates (as P) - mg/l		A-Avg. ≤ 0.10			*	*	X	X						
Nitrogen Species (as N) - mg/l	Total Nitrogen A-Avg. ≤ 0.85 S.V. ≤ 1.2	Nitrate S.V. ≤ 10 Nitrite S.V. ≤ 0.06	X		*	X	X	*		X				
Total Ammonia (as N) - mg/l		<sup>c</sup>			*									
Dissolved Oxygen - mg/l		S.V. Nov-Apr ≥ 6.0 S.V. May-Oct ≥ 5.0	X		*	X	X	X		X				

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
Suspended Solids - mg/l		S.V. ≤ 80			*										
Turbidity - NTU		S.V. ≤ 10			*			X							
Color - PCU	<sup>d</sup>	S.V. ≤ 75						*							
Total Dissolved Solids - mg/l	A-Avg. ≤ 180 S.V. ≤ 230	A-Avg. ≤ 500	X	X				*							
Chlorides - mg/l	A-Avg. ≤ 8 S.V. ≤ 15	S.V. ≤ 250	X	X				*		X					
Sulfate - mg/l		S.V. ≤ 250						*							
Sodium - SAR	A-Avg. ≤ 2	A-Avg. ≤ 8		*				X							
Alkalinity (as CaCO <sub>3</sub> ) - mg/l		< 25% change from natural conditions			*					X					
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X								
Fecal Coliform - No./100 ml		≤ 200/400 <sup>e</sup>	X	X		*	X	X		X					

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1792 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>d</sup> Increase in color must not be more than 10 PCU above natural conditions.

<sup>e</sup> 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 milliliters, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 milliliters.

**NAC 445A.1836 Carson Region: Clear Creek at the gaging station. (NRS 445A.425, 445A.520)**

The limits of this table apply to the body of water known as Clear Creek from its origin to gaging station number 10-3105, located in the NE 1/4 of the NW 1/4 of section 1, T. 14 N., R. 19 E., M.D.B. & M., *except for the length of the creek within the exterior borders of the Washoe Indian Reservation*. This segment of Clear Creek is located in Carson City and Douglas County.

**STANDARDS OF WATER QUALITY  
Clear Creek at the gaging station**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
Beneficial Uses			X	X	X	X	X	X		X					
Aquatic Life Species of Concern															

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X									
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X		*					
Total Phosphorus (as P) – mg/l		S.V. ≤ 0.10			*	*	X	X							
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X		X					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95 <sup>th</sup> percentile (whichever is less).	X	X				*							
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X								
Fecal Coliform - No./100 ml		≤ 200/400 <sup>d</sup>	X	X		*	X	X		X					

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1792 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>d</sup> Must not exceed a geometric mean of 200 per 100 milliliters based on a minimum of 5 samples during any 30-day period, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 milliliters.

**NAC 445A.1838 Carson Region: Clear Creek at the Carson River.** (NRS 445A.425, 445A.520)

The limits of this table apply to the body of water known as Clear Creek from gaging station number 10-3105, located in the NE 1/4 of the NW 1/4 of section 1, T. 14 N., R. 19 E., M.D.B. & M., to the Carson River, *except for the lengths of the creek within the exterior borders of the Washoe Indian Reservation*. This segment of Clear Creek is located in Carson City and Douglas County.

**STANDARDS OF WATER QUALITY  
Clear Creek at the Carson River**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
Beneficial Uses			X	X	X	X	X	X	X	X	X				
Aquatic Life Species of Concern			Trout.												
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X									
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*					

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Total Phosphorus (as P) – mg/l		S.V. ≤ 0.10			*	*	X	X						
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X		X				
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X						
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95 <sup>th</sup> percentile (whichever is less).	X	X				*						
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X							
Fecal Coliform - No./100 ml		≤ 200/400 <sup>d</sup>	X	X		*	X	X		X				

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1792 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>d</sup> Must not exceed a geometric mean of 200 per 100 milliliters based on a minimum of 5 samples during any 30-day period, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 milliliters.

**NAC 445A.1906 Walker Region: Walker River at the ~~inlet to Weber Reservoir~~ Walker River Indian Reservation.** (NRS 445A.425, 445A.520)

The limits of this table apply to the body of water known as the Walker River from the confluence of the East Fork of the Walker River and the West Fork of the Walker River to the ~~inlet to Weber Reservoir~~ exterior border of the Walker River Indian Reservation. This segment of the Walker River is located in Lyon County.

**STANDARDS OF WATER QUALITY**

**Walker River at the ~~inlet to Weber Reservoir~~ Walker River Indian Reservation**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Beneficial Uses			X	X	X	X	X	X	X	X				
Aquatic Life Species of Concern			Channel catfish and largemouth bass.											
Temperature - °C ΔT <sup>b</sup> - °C	ΔT = 0	S.V. Nov-Mar ≤ 13 S.V. Apr-June ≤ 23 <sup>c</sup> S.V. Jul-Oct ≤ 28 ΔT ≤ 2			*	X								
pH - SU		S.V. 6.5 - 9.0 ΔpH ± 0.5	X	X	*	*		X	X	*				
Total Phosphates (as P) - mg/l		A-Avg. ≤ 0.26 S.V. ≤ 0.40			*	*	X	X						

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Nitrogen Species (as N) - mg/l	Total Nitrogen A-Avg. ≤ 1.2 S.V. ≤ 1.5	Nitrate S.V. ≤ 10 Nitrite S.V. ≤ 1 <sup>d</sup>	X		*	X	X	*		X				
Total Ammonia (as N) - mg/l		<sup>e</sup>			*									
Dissolved Oxygen - mg/l		S.V. Nov-May ≥ 6.0 S.V. Jun-Oct ≥ 5.0	X		*	X	X	X		X				
Suspended Solids - mg/l		S.V. ≤ 80			*									
Turbidity - NTU		<sup>f</sup>			*			X						
Color - PCU		S.V. ≤ 75			X			*						
Total Dissolved Solids - mg/l	A-Avg. ≤ 400 S.V. ≤ 450	A-Avg. ≤ 500	X	X				*						
Chlorides - mg/l	A-Avg. ≤ 30 S.V. ≤ 35	S.V. ≤ 250	X	X				*		X				
Sulfate - mg/l	A-Avg. ≤ 95 S.V. ≤ 110	S.V. ≤ 250						*						
Sodium - SAR	S.V. ≤ 3	A-Avg. ≤ 8			*			X						
Alkalinity (as CaCO <sub>3</sub> ) - mg/l		< 25% change from natural conditions			*					X				
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X							

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1882 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The temperature beneficial use standard is ≤ 21°C from February through June when Lahontan cutthroat trout are present in the reach from Walker Lake to Weber Reservoir.

<sup>d</sup> The nitrite beneficial use standard is ≤ 0.06 from February through June when Lahontan cutthroat trout are present in the reach from Walker Lake to Weber Reservoir.

<sup>e</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>f</sup> Increase in turbidity must not be more than 10 NTU above natural conditions.

**NAC 445A.1908 Walker Region: Walker River at ~~the Schurz Bridge~~ Walker Lake.** (NRS 445A.425, 445A.520)

The limits of this table apply to the Walker River from ~~the Weber Reservoir to the inlet to~~ *the exterior border of the Walker River Indian Reservation to* Walker Lake. This segment of the Walker River is located in Mineral County.



**STANDARDS OF WATER QUALITY**  
Walker River at ~~Schurz Bridge~~ Walker Lake

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>														
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
Beneficial Uses			X	X	X	X	X	X	X	X	X						
Aquatic Life Species of Concern			Channel catfish, largemouth bass and, from February through June when an adequate flow exists, adult Lahontan cutthroat trout and adult rainbow trout.														
Temperature - °C ΔT <sup>b</sup> - °C	ΔT = 0	S.V. Nov-Mar ≤ 13 S.V. Apr-Jun ≤ 23 <sup>c</sup> S.V. Jul-Oct ≤ 28 ΔT ≤ 2			*	X											
pH - SU		S.V. 6.5 - 9.0 ΔpH ± 0.5	X	X	*	*			X	X	X						
Total Phosphates (as P) - mg/l		A-Avg. ≤ 0.17 S.V. ≤ 0.23			*	*	X	X									
Nitrogen Species (as N) – mg/l	Total Nitrogen A-Avg. ≤ 1.2 S.V. ≤ 1.5	Nitrate S.V. ≤ 10 Nitrite S.V. ≤ 1.0 Ammonia S.V. ≤ 0.06 (unionized)	X		*	X	X	*			X						
Dissolved Oxygen - mg/l		S.V. Nov-May ≥ 6.0 S.V. Jun-Oct ≥ 5.0	X		*	X	X	X			X						
Suspended Solids – mg/l	S.V. ≤ 60	S.V. ≤ 80			*												
Turbidity – NTU		<sup>e</sup>			*			X									
Color – PCU		S.V. ≤ 75			X			*									
Total Dissolved Solids - mg/l	A-Avg. ≤ 390 S.V. ≤ 570	A-Avg. ≤ 500	X	X					*								
Chlorides –mg/l	A-Avg. ≤ 23 S.V. ≤ 34	S.V. ≤ 250	X	X					*		X						
Sulfate – mg/l		S.V. ≤ 250							*								
Sodium – SAR	S.V. ≤ 3	A-Avg. ≤ 8			*				X								
Alkalinity (as CaCO <sub>3</sub> ) – mg/l		< 25 % change from natural conditions			*						X						
E. coli -No./100 ml	A.G.M. ≤ 40 S.V. ≤ 250	A.G.M. ≤ 126 S.V. ≤ 235					*	X									

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1882 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The temperature beneficial use standard is ≤ 21°C from February through June when Lahontan cutthroat trout are present.

<sup>d</sup> The nitrite beneficial use standard is ≤ 0.06 mg/l from February through June when Lahontan cutthroat trout are present.

<sup>e</sup> Increase in turbidity must not be more than 10 NTU above natural conditions.

~~[NAC 445A.1924 – Walker Region: Weber Reservoir. (NRS 445A.425, 445A.520)~~

~~The limits of this table apply to the entire body of water known as Weber Reservoir. Weber Reservoir is located in Lyon and Mineral Counties.~~

**STANDARDS OF WATER QUALITY**  
**Weber Reservoir**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Uses											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
<b>Beneficial Uses</b>			X	X	X	X	X	X	X	X	X	-	-	-
<b>Aquatic Life Species of Concern</b>														
Temperature—°C ΔTb—°C	-	S.V. ≤ 34 ΔT ≤ 3	-	-	*	X	-	-	-	-	-	-	-	-
pH—SU	-	S.V. 6.5—9.0	X	X	*	*	-	X	X	*	-	-	-	-
Total Phosphorus (as P)—mg/l	-	S.V. ≤ 0.33	-	-	*	*	X	X	-	-	-	-	-	-
Dissolved Oxygen—mg/l	-	S.V. ≥ 5.0	X	-	*	X	X	X	-	X	-	-	-	-
Total Dissolved Solids—mg/l	-	S.V. ≤ 500 or one-third above that characteristic of natural conditions (whichever is less).	X	X	-	-	-	*	-	-	-	-	-	-
Fecal Coliform—No./100 ml	-	e	X	X		*	X	X		X	-	-	-	-

\* = The most restrictive beneficial use.

X = Beneficial use.

a— Refer to NAC 445A.122 and 445A.1882 for beneficial use terminology.

b— 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.

c— The more stringent of the following apply:

- 1— The fecal coliform concentration must not exceed a geometric mean of 1,000 per 100 milliliters, nor may more than 20 percent of total samples exceed 2,400 per 100 milliliters.
- 2— The annual geometric mean of fecal coliform concentration must not exceed that characteristic of natural conditions by more than 200 per 100 milliliters, nor may the number of fecal coliform in a single sample exceed that characteristic of natural conditions by more than 400 per 100 milliliters.
- 3— The fecal coliform concentration, based on a minimum of five samples during any 30-day period, must not exceed a geometric mean of 200 per 100 milliliters, and not more than 10 percent of total samples during any 30-day period may exceed 400 per 100 milliliters. This is applicable only to those water used primarily for recreation involving contact with the water.

**NAC 445A.2146 Colorado Region: Colorado River below Davis Dam. (NRS 445A.425, 445A.520)**

The limits of this table apply to the body of water known as the Colorado River from the Lake Mohave Inlet to the *California* [Arizona] Nevada state line below Davis Dam, *except for the lengths of the river within the exterior borders of the Fort Mojave Indian Reservation*. This segment of the Colorado River is located in Clark County.

**STANDARDS OF WATER QUALITY**  
**Colorado River below Davis Dam**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>														
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
Beneficial Uses			X	X	X	X	X	X	X	X	X						
Aquatic Life Species of Concern																	
Temperature - °C $\Delta T^b$ - °C	$\Delta T = 0$	S.V. Nov-Apr $\leq 13$ S.V. May-Jun $\leq 17$ S.V. Jul-Oct $\leq 23$ $\Delta T \leq 2$			*	X											
pH - SU		S.V. 6.5 - 9.0 $\Delta pH \leq 0.5$	X	X	X	*			X	X	*						
Total Phosphates (as P) - mg/l	A-Avg. $\leq 0.02$ S.V. $\leq 0.03$	A-Avg. $\leq 0.05$			*	*	X	X									
Nitrogen Species (as N) - mg/l	Nitrate A-Avg. $\leq 1.1$ S.V. $\leq 1.6$	Nitrate S.V. $\leq 10$ Nitrite S.V. $\leq 0.06$	X		*	X	X	*			X						
Total Ammonia (an N) - mg/l		<sup>c</sup>			*												
Dissolved Oxygen - mg/l		S.V. Nov-May $\geq 6.0$ S.V. Jun-Oct $\geq 5.0$	X		*	X	X	X			X						
Suspended Solids - mg/l		S.V. $\leq 25$			*												
Turbidity - NTU		S.V. $\leq 10$			*			X									
Color - PCU		<sup>d</sup>			*			X									
Total Dissolved Solids - mg/l		<sup>e</sup>	X	X					*								
Alkalinity (as CaCO <sub>3</sub> ) - mg/l		< 25% change from natural conditions			*						X						
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 236$				*	X										
Fecal Coliform - No./100 ml	A.G.M. $\leq 50$ S.V. $\leq 100$	$\leq 200/400^f$	X	X		*	X	X			X						

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.2412 for beneficial use terminology.

<sup>b</sup> 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.

<sup>c</sup> The ambient water quality criteria for ammonia are specified in NAC 445A.118.

<sup>d</sup> Increase in color must not be more than 10 PCU above natural conditions.

<sup>e</sup> The salinity standard for the Colorado River system is specified in NAC 445A.143.

<sup>f</sup> Based on a minimum of not less than 5 samples during any 30-day period, the fecal coliform bacterial level may not exceed a geometric mean of 200 per 100 milliliters, nor may more than 10 percent of the total samples during any 30-day period exceed 400 per 100 milliliters.