

**PROPOSED REGULATION OF THE
STATE ENVIRONMENTAL COMMISSION**

LCB File No. R147-24

July 25, 2024

EXPLANATION – Matter in *italics* is new; matter in brackets ~~omitted material~~ is material to be omitted.

AUTHORITY: §§ 1-15, NRS 445A.425 and 445A.520.

A REGULATION relating to water quality; establishing water quality standards for certain bodies of water in the Carson Region; revising the designated beneficial uses for certain bodies of water in the Carson Region; revising provisions relating to standards for water quality; and providing other matters properly relating thereto.

Legislative Counsel’s Digest:

Existing law requires the State Environmental Commission within the State Department of Conservation and Natural Resources to adopt regulations relating to water pollution control, including water quality standards and limitations on the discharge of waste to protect the designated beneficial uses of the waters of this State. (NRS 445A.425, 445A.520) Existing regulations establish water quality standards for certain bodies of water in this State. (NAC 445A.11704-445A.2234) **Sections 2-6** of this regulation establish water quality standards for certain bodies of water in the Carson Region and designate aquatic life species of concern for those bodies of water. **Section 8** of this regulation makes conforming changes to indicate the placement of **sections 2-6** with the bodies of water in the Carson Region. **Sections 7 and 9-15** of this regulation revise the designation of certain aquatic life species of concern as native cold-water species or native warm-water species for certain bodies of water in the Carson Region. **Sections 10-15** of this regulation revise certain water quality standards relating to temperature for certain bodies of water in the Carson Region.

Existing regulations designate the beneficial uses for certain bodies of water within the Carson Region. (NAC 445A.1792) **Section 7** makes conforming changes to: (1) indicate the designated beneficial uses for certain bodies of water; and (2) revise the aquatic life species of concern for certain bodies of water in the Carson Region.

Section 1. Chapter 445A of NAC is hereby amended by adding thereto the provisions set forth as sections 2 to 6, inclusive, of this regulation.

Sec. 2. *The limits of this table apply to the body of water known as the West Fork of the Carson River from the California-Nevada state line to the Brockliss Slough Diversion. This segment of the West Fork of the Carson River is located in Douglas County.*

STANDARDS OF WATER QUALITY

Carson River, West Fork at the Brockliss Slough Diversion

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
<i>Beneficial Uses</i>			X	X	X	X	X	X	X	X	X				
<i>Aquatic Life Species of Concern</i>			<i>Native cold-water species</i>												
Temperature - °C		S.V. Nov-May ≤ 13 S.V. Jun ≤ 17 S.V. Jul ≤ 21 S.V. Aug-Oct ≤ 22			*										
ΔT ^b - °C	ΔT = 0	ΔT ≤ 2													
pH - SU	S.V. 7.4 - 8.4	S.V. 6.5 - 9.0 ΔpH ≠ 0.5			*										
Dissolved Oxygen - mg/L		S.V. Nov-May ≥ 6.0 S.V. Jun-Oct ≥ 5.0			*										
Total Phosphorus (as P) - mg/L	A-Avg. ≤ 0.016 S.V. ≤ 0.033	A-Avg. ≤ 0.10			*	*									
Total Nitrogen (as N) - mg/L	A-Avg. ≤ 0.4 S.V. ≤ 0.5				*	*									
Nitrate (as N) - mg/L		S.V. ≤ 10						*							
Nitrite (as N) - mg/L		S.V. ≤ 0.06			*										
Total Ammonia (as N) - mg/L		^c			*										
Total Suspended Solids - mg/L	A-Avg. ≤ 15	S.V. ≤ 25			*										
Turbidity - NTU	A-Avg. ≤ 3 S.V. ≤ 5	S.V. ≤ 10			*										
Color - PCU	^d	S.V. ≤ 75						*							
Total Dissolved Solids - mg/L	A-Avg. ≤ 70 S.V. ≤ 95	A-Avg. ≤ 500						*							
Chloride - mg/L	A-Avg. ≤ 3 S.V. ≤ 5	S.V. ≤ 250						*							
Sulfate - mg/L	S.V. ≤ 4	S.V. ≤ 250						*							
Sodium - SAR	A-Avg. ≤ 1	A-Avg. ≤ 8		*											
Alkalinity (as CaCO ₃) - mg/L		S.V. ≥ 20			*										
E. coli - cfu/100 mL ^e		G.M. ≤ 126 S.V. ≤ 410				*									
Fecal Coliform - No./100 mL	A.G.M. ≤ 105	S.V. ≤ 1,000		*											
Toxic Materials		^f													

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1792 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 water quality criteria for ammonia are specified in NAC 445A.118.

^d Increase in color must not be more than 10 PCU above natural conditions.

^e The geometric mean must not be exceeded in any 30-day period. The single value must not be exceeded in more than 10 percent of the samples collected within any 30-day period.

^f The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 3. The limits of this table apply to the body of water known as Corsser Creek from its origin to Brockliss Slough. Corsser Creek is located in Douglas County.

STANDARDS OF WATER QUALITY

Corsser Creek

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
<i>Beneficial Uses</i>			X	X	X	X	X	X			X				
<i>Aquatic Life Species of Concern</i>			<i>Native cold-water species</i>												
Temperature - °C ΔT^b - °C		S.V. ≤ 20 $\Delta T = 0$			*										
pH - SU		S.V. 6.5 - 9.0			*										
Dissolved Oxygen - mg/L		S.V. ≥ 6.0			*										
Total Phosphorus (as P) - mg/L		S.V. ≤ 0.10			*	*									
Total Ammonia (as N) - mg/L		^c			*										
Total Dissolved Solids - mg/L		S.V. ≤ 500						*							
E. coli - cfu/100 mL ^d		G.M. ≤ 126 S.V. ≤ 410				*									
Fecal Coliform - No./100 mL		S.V. $\leq 1,000$		*											
Toxic Materials		^e													

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1792 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 water quality criteria for ammonia are specified in NAC 445A.118.

^d The geometric mean must not be exceeded in any 30-day period. The single value must not be exceeded in more than 10 percent of the samples collected within any 30-day period.

^e The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 4. *The limits of this table apply to the body of water known as Monument Creek from its origin to Brockliss Slough. Monument Creek is located in Douglas County.*

STANDARDS OF WATER QUALITY

Monument Creek

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
<i>Beneficial Uses</i>			X	X	X	X	X	X	X	X	X	X	X	X	X	X
<i>Aquatic Life Species of Concern</i>			<i>Native cold-water species</i>													
Temperature - °C ΔT^b - °C		S.V. ≤ 20 $\Delta T = 0$			*											
pH - SU		S.V. 6.5 - 9.0			*											
Dissolved Oxygen - mg/L		S.V. ≥ 6.0			*											
Total Phosphorus (as P) - mg/L		S.V. ≤ 0.10			*	*										
Total Ammonia (as N) - mg/L		^c			*											
Total Dissolved Solids - mg/L		S.V. ≤ 500							*							
E. coli - cfu/100 mL ^d		G.M. ≤ 126 S.V. ≤ 410				*										
Fecal Coliform - No./100 mL		S.V. $\leq 1,000$		*												
Toxic Materials		^e														

* = The most restrictive beneficial use.
X = Beneficial use.
^a Refer to NAC 445A.122 and 445A.1792 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 water quality criteria for ammonia are specified in NAC 445A.118.
^d The geometric mean must not be exceeded in any 30-day period. The single value must not be exceeded in more than 10 percent of the samples collected within any 30-day period.
^e The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 5. *The limits of this table apply to the body of water known as Mott Creek from its origin to Brockliss Slough. Mott Creek is located in Douglas County.*

STANDARDS OF WATER QUALITY

Mott Creek

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a												
			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			Native cold-water species												
Temperature - °C ΔT^b - °C		S.V. ≤ 20 $\Delta T = 0$			*										
pH - SU		S.V. 6.5 - 9.0			*										
Dissolved Oxygen - mg/L		S.V. ≥ 6.0			*										
Total Phosphorus (as P) - mg/L		S.V. ≤ 0.10			*	*									
Total Ammonia (as N) - mg/L		^c			*										
Total Dissolved Solids - mg/L		S.V. ≤ 500							*						
E. coli - cfu/100 mL ^d		G.M. ≤ 126 S.V. ≤ 410				*									
Fecal Coliform - No./100 mL		S.V. $\leq 1,000$		*											
Toxic Materials		^e													

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1792 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 water quality criteria for ammonia are specified in NAC 445A.118.

^d The geometric mean must not be exceeded in any 30-day period. The single value must not be exceeded in more than 10 percent of the samples collected within any 30-day period.

^e The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 6. *The limits of this table apply to the body of water known as Sheridan Creek from its origin to Brockliss Slough. Sheridan Creek is located in Douglas County.*

STANDARDS OF WATER QUALITY

Sheridan Creek

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a														
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
<i>Beneficial Uses</i>			X	X	X	X	X	X			X						
<i>Aquatic Life Species of Concern</i>			<i>Native cold-water species</i>														
Temperature - °C ΔT ^b - °C		S.V. ≤ 20 ΔT = 0			*												
pH - SU		S.V. 6.5 - 9.0			*												
Dissolved Oxygen - mg/L		S.V. ≥ 6.0			*												
Total Phosphorus (as P) - mg/L		S.V. ≤ 0.10			*	*											
Total Ammonia (as N) - mg/L		^c			*												
Total Dissolved Solids - mg/L		S.V. ≤ 500								*							
E. coli - cfu/100 mL ^d		G.M. ≤ 126 S.V. ≤ 410					*										
Fecal Coliform - No./100 mL		S.V. ≤ 1,000		*													
Toxic Materials		^e															

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1792 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 water quality criteria for ammonia are specified in NAC 445A.118.

^d The geometric mean must not be exceeded in any 30-day period. The single value must not be exceeded in more than 10 percent of the samples collected within any 30-day period.

^e The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 7. NAC 445A.1792 is hereby amended to read as follows:

445A.1792 The designated beneficial uses for select bodies of water within the Carson

Region are prescribed in this section:

Water Body Name	Segment Description	Beneficial Uses											Aquatic Life Species of Concern	Water Quality Standard NAC Reference				
		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh						
Carson River, West Fork at the state line	At the California-Nevada state line.	X	X	X	X	X	X	X	X	X							Rainbow trout and brown trout Native cold-water species	NAC 445A.1796
Bryant Creek near the state line	From the California-Nevada state line to its confluence with the East Fork of the Carson River.	X	X	X	X	X	X	X	X	X							Rainbow trout and brown trout	NAC 445A.1798

Water Body Name	Segment Description	Beneficial Uses											Aquatic Life Species of Concern	Water Quality Standard NAC Reference		
		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
Carson River, East Fork at the state line	At the California-Nevada state line.	X	X	X	X	X	X	X	X	X					Rainbow trout and brown trout	NAC 445A.1802
Carson River, East Fork at U.S. Highway 395 south of Gardnerville	From the California-Nevada state line to the Riverview Mobile Home Park at U.S. Highway 395 south of Gardnerville, except for the length of the river within the exterior borders of the Washoe Indian Reservation.	X	X	X	X	X	X	X	X	X					Rainbow trout and brown trout Native warm-water species	NAC 445A.1804
Carson River, East Fork at Muller Lane	From the Riverview Mobile Home Park at U.S. Highway 395 to Muller Lane, except for the length of the river within the exterior borders of the Washoe Indian Reservation.	X	X	X	X	X	X	X	X	X					Rainbow trout and brown trout Native warm-water species	NAC 445A.1806
<i>Carson River, West Fork at the Brockliss Slough Diversion</i>	<i>From the California-Nevada state line to the Brockliss Slough Diversion.</i>	X	X	X	X	X	X	X	X	X					<i>Native cold-water species</i>	<i>Section 2 of this regulation</i>
Carson River at Genoa Lane	The East Fork of the Carson River from Muller Lane to the West Fork, the West Fork of the Carson River from the California-Nevada state line <i>Brockliss Slough Diversion</i> to the East Fork, and the main stem of the Carson River from the confluence of the East and West Forks to Genoa Lane.	X	X	X	X	X	X	X	X	X					Catfish, rainbow trout and brown trout Native warm-water species	NAC 445A.1808
Carson River at Cradlebaugh Bridge	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.	X	X	X	X	X	X	X	X	X					Catfish, rainbow trout and brown trout Native warm-water species	NAC 445A.1812
Carson River at the Mexican Ditch Gage	From U.S. Highway 395 at Cradlebaugh Bridge to the Mexican Ditch Gage.	X	X	X	X	X	X	X	X	X					Rainbow trout and brown trout Native warm-water species	NAC 445A.1814
Carson River near New Empire	From the Mexican Ditch Gage to New Empire.	X	X	X	X	X	X	X	X	X					Smallmouth bass, rainbow trout and brown trout Native warm-water species	NAC 445A.1816
Carson River at Dayton Bridge	From New Empire to the Dayton Bridge.	X	X	X	X	X	X	X	X	X					Walleye, channel catfish and white bass	NAC 445A.1818
Carson River at Lahontan Reservoir	From the Dayton Bridge to Lahontan Reservoir.	X	X	X	X	X	X	X	X	X					Walleye, channel catfish and white bass	NAC 445A.1822
Lahontan Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X	X					Walleye, channel catfish and white bass	NAC 445A.1824

Water Body Name	Segment Description	Beneficial Uses											Aquatic Life Species of Concern	Water Quality Standard NAC Reference		
		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
Lower Carson River	From Lahontan Reservoir to the Carson Sink (the natural channel).	X	X	X	X	X	X	X	X	X						NAC 445A.1826
Daggett Creek	From its origin to the Carson River.	X	X	X	X	X	X		X							NAC 445A.1828
Genoa Creek	From its origin to the first diversion box at the mouth of the canyon, near the east line of section 9, T. 13 N., R. 19 E., M.D.B. & M.	X	X	X	X	X	X		X							NAC 445A.1832
Sierra Canyon Creek	From its origin to the first diversion structure at the mouth of the canyon, near the east line of section 4, T. 13 N., R. 19 E., M.D.B. & M.	X	X	X	X	X	X		X							NAC 445A.1834
Clear Creek at the gaging station	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.	X	X	X	X	X	X		X							NAC 445A.1836
Clear Creek at the Carson River	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 length of the creek within the exterior borders of the Washoe Indian Reservation.	X	X	X	X	X	X	X	X					Trout		NAC 445A.1838
Kings Canyon	From its origin to the point of diversion of the Carson City Water Department, near the east line of section 23, T. 15 N., R. 19 E., M.D.B. & M.	X	X	X	X	X	X		X							NAC 445A.1842
Ash Canyon	From its origin to the first point of diversion of the Carson City Water Department, near the west line of section 12, T. 15 N., R. 19 E., M.D.B. & M.	X	X	X	X	X	X		X							NAC 445A.1844
V-Line Canal	From the Carson diversion dam to its division into the S and L Canals.	X	X	X	X	X	X	X	X							NAC 445A.1846
Rattlesnake Reservoir	The entire reservoir; also known as S-Line Reservoir.	X	X	X	X	X	X	X	X							NAC 445A.1848
Indian Lakes	All the lakes, including Upper Lake, Likes Lake, Papoose Lake, Big Indian Lake, Little Cottonwood Lake, Big Cottonwood Lake and East Lake.	X	X	X	X	X	X	X	X							NAC 445A.1852
Diagonal Drain	The entire length.	X	X	X	X	X	X	X	X							NAC 445A.1854
South Carson Lake	The entire lake; also known as Government Pasture and the Greenhead Gun Club.	X	X	X	X	X	X	X	X							NAC 445A.1856

Water Body Name	Segment Description	Beneficial Uses											Aquatic Life Species of Concern	Water Quality Standard NAC Reference		
		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
Harmon Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X	X						NAC 445A.1858
Stillwater Marsh east of Westside Road	East of Westside Road and north of the community of Stillwater.	X	X	X	X	X	X	X	X	X						NAC 445A.1862
Stillwater Marsh west of Westside Road	West of Westside Road and south of the community of Stillwater.	X	X	X		X		X	X							NAC 445A.1864
<i>Corsser Creek</i>	<i>From its origin to Brockliss Slough.</i>	X	X	X	X	X	X		X					<i>Native cold-water species</i>	<i>Section 3 of this regulation</i>	
<i>Monument Creek</i>	<i>From its origin to Brockliss Slough.</i>	X	X	X	X	X	X		X					<i>Native cold-water species</i>	<i>Section 4 of this regulation</i>	
<i>Mott Creek</i>	<i>From its origin to Brockliss Slough.</i>	X	X	X	X	X	X		X					<i>Native cold-water species</i>	<i>Section 5 of this regulation</i>	
<i>Sheridan Creek</i>	<i>From its origin to Brockliss Slough.</i>	X	X	X	X	X	X		X					<i>Native cold-water species</i>	<i>Section 6 of this regulation</i>	
Irrigation	Irrigation															
Livestock	Watering of livestock															
Contact	Recreation involving contact with the water															
Noncontact	Recreation not involving contact with the water															
Industrial	Industrial supply															
Municipal	Municipal or domestic supply, or both															
Wildlife	Propagation of wildlife															
Aquatic	Propagation of aquatic life															
Aesthetic	Extraordinary ecological, aesthetic or recreational value															
Enhance	Enhancement of water quality															
Marsh	Maintenance of a freshwater marsh															

Sec. 8. NAC 445A.1794 is hereby amended to read as follows:

445A.1794 The standards for water quality for select bodies of water within the Carson Region are prescribed in NAC 445A.1794 to 445A.1864, inclusive **†**, *and sections 2 to 6, inclusive, of this regulation.*

Sec. 9. NAC 445A.1796 is hereby amended to read as follows:

445A.1796 The limits of this table apply to the body of water known as the West Fork of the Carson River at the California-Nevada state line. This segment of the West Fork of the Carson River is located in Douglas County.

STANDARDS OF WATER QUALITY

Carson River, West Fork at the state line

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
Beneficial Uses			X	X	X	X	X	X	X	X	X	X			
Aquatic Life Species of Concern			[Rainbow trout and brown trout.] <i>Native cold-water species</i>												
Temperature - °C		S.V. Nov-May ≤ 13 S.V. Jun ≤ 17 S.V. Jul ≤ 21 S.V. Aug-Oct ≤ 22			*										
ΔT ^b - °C	ΔT = 0	ΔT ≤ 2													
pH - SU	S.V. 7.4 - 8.4	S.V. 6.5 - 9.0 ΔpH ±0.5			*										
Dissolved Oxygen - mg/L		S.V. Nov-May ≥ 6.0 S.V. Jun-Oct ≥ 5.0			*										
Total Phosphorus (as P) - mg/L	A-Avg. ≤ 0.016 S.V. ≤ 0.033	A-Avg. ≤ 0.10			*	*									
Total Nitrogen (as N) - mg/L	A-Avg. ≤ 0.4 S.V. ≤ 0.5				*	*									
Nitrate (as N) - mg/L		S.V. ≤ 10						*							
Nitrite (as N) - mg/L		S.V. ≤ 0.06			*										
Total Ammonia (as N) - mg/L		^c			*										
Total Suspended Solids - mg/L	A-Avg. ≤ 15	S.V. ≤ 25			*										
Turbidity - NTU	A-Avg. ≤ 3 S.V. ≤ 5	S.V. ≤ 10			*										
Color - PCU	^d	S.V. ≤ 75						*							
Total Dissolved Solids - mg/L	A-Avg. ≤ 70 S.V. ≤ 95	A-Avg. ≤ 500						*							
Chloride - mg/L	A-Avg. ≤ 3 S.V. ≤ 5	S.V. ≤ 250						*							
Sulfate - mg/L	S.V. ≤ 4	S.V. ≤ 250						*							
Sodium - SAR	A-Avg. ≤ 1	A-Avg. ≤ 8		*											
Alkalinity (as CaCO ₃) - mg/L		S.V. ≥ 20			*										
E. coli - cfu/100 mL ^e		G.M. ≤ 126 S.V. ≤ 410				*									
Fecal Coliform - No./100 mL	A.G.M. ≤ 105	S.V. ≤ 1,000		*											
Toxic Materials		^f													

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1792 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 water quality criteria for ammonia are specified in NAC 445A.118.

^d Increase in color must not be more than 10 PCU above natural conditions.

^e The geometric mean must not be exceeded in any 30-day period. The single value must not be exceeded in more than 10 percent of the samples collected within any 30-day period.

^f The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 10. NAC 445A.1804 is hereby amended to read as follows:

445A.1804 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 length 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 CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a													
			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.† <i>Native warm-water species</i>													
Temperature - °C		S.V. †Nov-May† ≤ †13 S.V. Jun ≤ †17 S.V. Jul ≤ †21 S.V. Aug-Oct ≤ †22† 28			*											
ΔT ^b - °C	ΔT = 0	ΔT ≤ 2														
pH - SU	S.V. 7.5 - 8.6	S.V. 6.5 - 9.0 ΔpH ± 0.5			*											
Dissolved Oxygen - mg/L		S.V. Nov-May ≥ 6.0 S.V. Jun-Oct ≥ 5.0			*											
Total Phosphorus (as P) - mg/L		A-Avg. ≤ 0.10			*	*										
Total Nitrogen (as N) - mg/L	A-Avg. ≤ 0.4 S.V. ≤ 0.5				*	*										
Nitrate (as N) - mg/L		S.V. ≤ 10							*							
Nitrite (as N) - mg/L		S.V. ≤ 0.06			*											
Total Ammonia (as N) - mg/L		^c			*											
Total Suspended Solids - mg/L		S.V. ≤ 80			*											
Turbidity - NTU		S.V. ≤ 10			*											
Color - PCU	^d	S.V. ≤ 75							*							
Total Dissolved Solids - mg/L	A-Avg. ≤ 120 S.V. ≤ 175	A-Avg. ≤ 500							*							

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Chloride - mg/L	A-Avg. \leq 6 S.V. \leq 10	S.V. \leq 250							*							
Sulfate - mg/L		S.V. \leq 250							*							
Sodium - SAR	A-Avg. \leq 2	A-Avg. \leq 8		*												
Alkalinity (as CaCO ₃) - mg/L		S.V. \geq 20			*											
E. coli - cfu/100 mL ^e		G.M. \leq 126 S.V. \leq 410				*										
Fecal Coliform - No./100 mL	A.G.M. \leq 20 S.V. \leq 85	S.V. \leq 1,000		*												
Toxic Materials		^f														

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1792 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 water quality criteria for ammonia are specified in NAC 445A.118.

^d Increase in color must not be more than 10 PCU above natural conditions.

^e The geometric mean must not be exceeded in any 30-day period. The single value must not be exceeded in more than 10 percent of the samples collected within any 30-day period.

^f The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 11. NAC 445A.1806 is hereby amended to read as follows:

445A.1806 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 length 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 CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X	X				

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a																		
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh								
Aquatic Life Species of Concern			†Rainbow trout and brown trout.† <i>Native warm-water species</i>																		
Temperature - °C		S.V. †Nov-May† ≤ †13°C S.V. Jun ≤ †17°C S.V. Jul ≤ †21°C S.V. Aug-Oct ≤ †22°C 28			*																
ΔT ^b - °C	ΔT = 0	ΔT ≤ 2°C																			
pH - SU	S.V. 7.4 - 8.7	S.V. 6.5 - 9.0 ΔpH ± 0.5			*																
Dissolved Oxygen - mg/L		S.V. Nov-May ≥ 6.0 S.V. Jun-Oct ≥ 5.0			*																
Total Phosphorus (as P) - mg/L		A-Avg. ≤ 0.10			*	*															
Total Nitrogen (as N) - mg/L	A-Avg. ≤ 0.5 S.V. ≤ 0.8				*	*															
Nitrate (as N) - mg/L		S.V. ≤ 10								*											
Nitrite (as N) - mg/L		S.V. ≤ 0.06			*																
Total Ammonia (as N) - mg/L		^c			*																
Total Suspended Solids - mg/L		S.V. ≤ 80			*																
Turbidity - NTU		S.V. ≤ 10			*																
Color - PCU	^d	S.V. ≤ 75								*											
Total Dissolved Solids - mg/L	A-Avg. ≤ 180 S.V. ≤ 205	A-Avg. ≤ 500								*											
Chloride - mg/L	A-Avg. ≤ 8 S.V. ≤ 10	S.V. ≤ 250								*											
Sulfate - mg/L		S.V. ≤ 250								*											
Sodium - SAR	A-Avg. ≤ 2	A-Avg. ≤ 8		*																	
Alkalinity (as CaCO ₃) - mg/L		S.V. ≥ 20			*																
E. coli - cfu/100 mL ^e		G.M. ≤ 126 S.V. ≤ 410				*															
Fecal Coliform - No./100 mL	A.G.M. ≤ 50	S.V. ≤ 1,000		*																	
Toxic Materials		^f																			

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1792 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 water quality criteria for ammonia are specified in NAC 445A.118.

^d Increase in color must not be more than 10 PCU above natural conditions.

^e The geometric mean must not be exceeded in any 30-day period. The single value must not be exceeded in more than 10 percent of the samples collected within any 30-day period.

^f The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 12. NAC 445A.1808 is hereby amended to read as follows:

445A.1808 The limits of this table apply to the bodies of water known as the Carson River, including the East Fork of the Carson River from Muller Lane to the West Fork, the West Fork of the Carson River from the ~~California-Nevada state line~~ *Brockliss Slough Diversion* to the East Fork, and the main stem of the Carson River from the confluence of the East and West Forks to Genoa Lane. These segments of the Carson River are located in Douglas County.

STANDARDS OF WATER QUALITY

Carson River at Genoa Lane

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a													
			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			{Catfish, rainbow trout and brown trout.} <i>Native warm-water species</i>													
Temperature - °C		S.V. {Nov-Apr} ≤ 13 S.V. {May-Jun} ≤ 17 S.V. {Jul-Oct} ≤ 23 28			*											
ΔT ^b - °C	ΔT = 0	ΔT ≤ 2			*											
pH - SU	S.V. 7.4 - 8.5	S.V. 6.5 - 9.0 ΔpH ± 0.5			*											
Dissolved Oxygen - mg/L		S.V. Nov-Apr ≥ 6.0 S.V. May-Oct ≥ 5.0			*											
Total Phosphorus (as P) - mg/L		A-Avg. ≤ 0.10			*	*										
Total Nitrogen (as N) - mg/L	A-Avg. ≤ 0.8 S.V. ≤ 1.3				*	*										
Nitrate (as N) - mg/L		S.V. ≤ 10						*								
Nitrite (as N) - mg/L		S.V. ≤ 0.06			*											
Total Ammonia (as N) - mg/L		^c			*											
Total Suspended Solids - mg/L		S.V. ≤ 80			*											
Turbidity - NTU		S.V. ≤ 10			*											
Color - PCU	^d	S.V. ≤ 75						*								
Total Dissolved Solids - mg/L	A-Avg. ≤ 165 S.V. ≤ 220	A-Avg. ≤ 500						*								
Chloride - mg/L	A-Avg. ≤ 8 S.V. ≤ 12	S.V. ≤ 250						*								
Sulfate - mg/L		S.V. ≤ 250						*								
Sodium - SAR	A-Avg. ≤ 2	A-Avg. ≤ 8		*												

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Alkalinity (as CaCO ₃) - mg/L		S.V. ≥ 20			*									
E. coli - cfu/100 mL ^e		G.M. ≤ 126 S.V. ≤ 410				*								
Fecal Coliform - No./100 mL	A.G.M. ≤ 180	S.V. ≤ 1,000		*										
Toxic Materials		f												

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1792 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 water quality criteria for ammonia are specified in NAC 445A.118.

^d Increase in color must not be more than 10 PCU above natural conditions.

^e The geometric mean must not be exceeded in any 30-day period. The single value must not be exceeded in more than 10 percent of the samples collected within any 30-day period.

^f The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 13. NAC 445A.1812 is hereby amended to read as follows:

445A.1812 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 CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Beneficial Uses			X	X	X	X	X	X	X	X	X	X	X	X
Aquatic Life Species of Concern			[Catfish, rainbow trout and brown trout.] <i>Native warm-water species</i>											

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a																			
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh									
Temperature - °C ΔT^b - °C	$\Delta T = 0$	S.V. Nov-Apr ≤ 13 S.V. May-Jun ≤ 17 S.V. Jul-Oct ≤ 23 28 $\Delta T \leq 2$			*																	
pH - SU	S.V. 7.5 - 8.4	S.V. 6.5 - 9.0 $\Delta pH \pm 0.5$			*																	
Dissolved Oxygen - mg/L		S.V. Nov-Apr ≥ 6.0 S.V. May-Oct ≥ 5.0			*																	
Total Phosphorus (as P) - mg/L		A-Avg. ≤ 0.10			*	*																
Total Nitrogen (as N) - mg/L	A-Avg. ≤ 0.85 S.V. ≤ 1.2				*	*																
Nitrate (as N) - mg/L		S.V. ≤ 10							*													
Nitrite (as N) - mg/L		S.V. ≤ 0.06			*																	
Total Ammonia (as N) - mg/L		c			*																	
Total Suspended Solids - mg/L		S.V. ≤ 80			*																	
Turbidity - NTU		S.V. ≤ 10			*																	
Color - PCU	d	S.V. ≤ 75							*													
Total Dissolved Solids - mg/L	A-Avg. ≤ 180 S.V. ≤ 230	A-Avg. ≤ 500							*													
Chloride - mg/L	A-Avg. ≤ 8 S.V. ≤ 15	S.V. ≤ 250							*													
Sulfate - mg/L		S.V. ≤ 250							*													
Sodium - SAR	A-Avg. ≤ 2	A-Avg. ≤ 8		*																		
Alkalinity (as CaCO ₃) - mg/L		S.V. ≥ 20			*																	
E. coli - cfu/100 mL ^e		G.M. ≤ 126 S.V. ≤ 410					*															
Fecal Coliform - No./100 mL		S.V. $\leq 1,000$		*																		
Toxic Materials		f																				

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1792 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 water quality criteria for ammonia are specified in NAC 445A.118.

^d Increase in color must not be more than 10 PCU above natural conditions.

^e The geometric mean must not be exceeded in any 30-day period. The single value must not be exceeded in more than 10 percent of the samples collected within any 30-day period.

^f The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 14. NAC 445A.1814 is hereby amended to read as follows:

445A.1814 The limits of this table apply to the body of water known as the Carson River from U.S. Highway 395 at Cradlebaugh Bridge to the Mexican Ditch Gage. This segment of the Carson River is located in Carson City and Douglas County.

STANDARDS OF WATER QUALITY

Carson River at the Mexican Ditch Gage

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a													
			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.† <i>Native warm-water species</i>													
Temperature - °C		S.V. †Nov-Apr† ≤ †13 S.V. †May-Jun† ≤ †17 S.V. †Jul-Oct† ≤ †23† 28			*											
ΔT ^b - °C	ΔT = 0	ΔT ≤ 2														
pH - SU	S.V. 7.4 - 8.5	S.V. 6.5 - 9.0 ΔpH ± 0.5			*											
Dissolved Oxygen - mg/L		S.V. Nov-Apr ≥ 6.0 S.V. May-Oct ≥ 5.0			*											
Total Phosphorus (as P) - mg/L		A-Avg. ≤ 0.10			*	*										
Total Nitrogen (as N) - mg/L	A-Avg. ≤ 0.8 S.V. ≤ 1.3				*	*										
Nitrate (as N) - mg/L		S.V. ≤ 10							*							
Nitrite (as N) - mg/L		S.V. ≤ 0.06			*											
Total Ammonia (as N) - mg/L		^c			*											
Total Suspended Solids - mg/L		S.V. ≤ 80			*											
Turbidity - NTU		S.V. ≤ 10			*											
Color - PCU	^d	S.V. ≤ 75							*							
Total Dissolved Solids - mg/L	A-Avg. ≤ 285 S.V. ≤ 360	A-Avg. ≤ 500							*							
Chloride - mg/L	A-Avg. ≤ 17 S.V. ≤ 23	S.V. ≤ 250							*							
Sulfate - mg/L	A-Avg. ≤ 24 S.V. ≤ 100	S.V. ≤ 250							*							
Sodium - SAR	A-Avg. ≤ 2	A-Avg. ≤ 8		*												
Alkalinity (as CaCO ₃) - mg/L		S.V. ≥ 20			*											
E. coli - cfu/100 mL ^e		G.M. ≤ 126 S.V. ≤ 410				*										
Fecal Coliform - No./100 mL	A.G.M. ≤ 110 S.V. ≤ 295	S.V. ≤ 1,000		*												
Toxic Materials		^f														

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1792 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 water quality criteria for ammonia are specified in NAC 445A.118.

^d Increase in color must not be more than 10 PCU above natural conditions.

^e The geometric mean must not be exceeded in any 30-day period. The single value must not be exceeded in more than 10 percent of the samples collected within any 30-day period.

^f The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 15. NAC 445A.1816 is hereby amended to read as follows:

445A.1816 The limits of this table apply to the body of water known as the Carson River from the Mexican Ditch Gage to New Empire. This segment of the Carson River is located in Carson City.

STANDARDS OF WATER QUALITY

Carson River near New Empire

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a													
			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			{Smallmouth bass, rainbow trout and brown trout.} <i>Native warm-water species</i>													
Temperature - °C		S.V. {Nov-May} ≤ {18} S.V. {Jun-Oct} ≤ {23} 28			*											
ΔT ^b - °C	ΔT = 0	ΔT ≤ 2														
pH - SU	S.V. 7.4 - 8.4	S.V. 6.5 - 9.0 ΔpH ±0.5			*											
Dissolved Oxygen - mg/L		S.V. ≥ 5.0			*											
Total Phosphorus (as P) - mg/L		A-Avg. ≤ 0.10			*	*										
Total Nitrogen (as N) - mg/L	A-Avg. ≤ 1.3 S.V. ≤ 1.7				*	*										
Nitrate (as N) - mg/L		S.V. ≤ 10							*							
Nitrite (as N) - mg/L		S.V. ≤ 0.06			*											
Total Ammonia (as N) - mg/L		^c			*											
Total Suspended Solids - mg/L		S.V. ≤ 80			*											
Turbidity - NTU		S.V. ≤ 10			*											
Color - PCU	^d	S.V. ≤ 75							*							
Total Dissolved Solids - mg/L	A-Avg. ≤ 260 S.V. ≤ 375	A-Avg. ≤ 500							*							

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY CRITERIA TO PROTECT BENEFICIAL USES	Beneficial Uses ^a											
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Chloride - mg/L	A-Avg. \leq 13 S.V. \leq 24	S.V. \leq 250							*					
Sulfate - mg/L		S.V. \leq 250							*					
Sodium - SAR	A-Avg. \leq 2	A-Avg. \leq 8		*										
Alkalinity (as CaCO ₃) - mg/L		S.V. \geq 20			*									
E. coli - cfu/100 mL ^e		G.M. \leq 126 S.V. \leq 410				*								
Fecal Coliform - No./100 mL		S.V. \leq 1,000		*										
Toxic Materials		^f												

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1792 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 water quality criteria for ammonia are specified in NAC 445A.118.

^d Increase in color must not be more than 10 PCU above natural conditions.

^e The geometric mean must not be exceeded in any 30-day period. The single value must not be exceeded in more than 10 percent of the samples collected within any 30-day period.

^f The water quality criteria for toxic materials are specified in NAC 445A.1236.