

Nevada Surface Water Quality Regulations

Changes to the Nevada Administrative Code (NAC) removing waterbodies or portions of waterbodies in the NAC pertaining to State water quality standards on Federal Indian Reservations



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Rationale for Proposed Revisions to the Nevada Water Quality Regulations

Changes to the Nevada Administrative Code removing waterbodies or portions of waterbodies in the NAC pertaining to State water quality standards on Federal Indian Reservations

INTRODUCTION

Under section 303 of the Clean Water Act (CWA), 40 CFR 131 and NRS 445A.520, States have responsibility for setting, reviewing, and revising water quality standards. These water quality standards are not applicable to Federal Indian Reservations.

The following rationale discusses proposed changes to the Nevada Administrative Code (NAC) removing waterbodies or portions of waterbodies in the NAC pertaining to State water quality standards on Federal Indian Reservations. During the 1970's, when Nevada was establishing its water quality standards, Nevada set standards on waters within several Federal Indian Reservations. In 1983, the Federal government established a federal Indian policy to treat Tribal governments on a government-to-government basis, and to support the principle of self-determination and local decision making by Indian Tribes. Section 518(e) of Clean Water Act (CWA) was added as part of the 1987 Amendments. This section authorizes the United States Environmental Protection Agency (USEPA) to treat federally recognized Indian Tribes in a similar manner as states for certain provisions of the Act, including the water quality standards program.

Changes will be made to the following NACs to exclude length(s) of the waterbodies within the exterior borders of Federal Indian Reservations, no changes to the criteria are proposed:

- NAC 445A.120 – Applicability
- NAC 445A.1296 – Black Rock Region: Mahogany Creek
- NAC 445A.1464 – Humboldt Region: Humboldt River, South Fork and tributaries at Lee
- NAC 445A.1466 – Humboldt Region: Humboldt River, South Fork at the Humboldt River
- NAC 445A.1556 – Humboldt Region: Reese Creek at Indian Creek
- NAC 445A.1558 – Humboldt Region: Reese River at State Route 722
- NAC 445A.1694 – Truckee Region: Truckee River at the Wadsworth Gage
- NAC 445A.1804 – Carson Region: Carson River, East Fork at U.S. Highway 395 south of Gardnerville
- NAC 445A.1806 – Carson Region: Carson River, East Fork at Muller Lane
- NAC 445A.1812 – Carson Region: Carson River at Cradlebaugh Bridge
- NAC 445A.1836 – Carson Region: Clear Creek at the gaging station
- NAC 445A.1838 – Carson Region: Clear Creek at the Carson River
- NAC 445A.1906 – Walker Region: Walker River at the inlet to Weber Reservoir
- NAC 445A.1908 – Walker Region: Walker River at Schurz Bridge
- NAC 445A.2146 – Colorado Region: Colorado River below Davis Dam

The following NACs will be removed because they are entirely within exterior borders of tribal land:

- NAC 445A.1294 – Black Rock Region: Summit Lake
- NAC 445A.16965 – Truckee Region: Truckee River at Pyramid Lake
- NAC 445A.1924 – Walker Region: Weber Reservoir

SUMMARY OF PROPOSED REVISIONS

NAC 445A.120

The following language will be added to NAC 445A.120 – Applicability: “3. NAC 445A.11704 to 445A.2234, inclusive, do not apply to waters within the exterior borders of Federal Indian Reservations.”

NAC 445A.1294

Remove NAC 445A.1294 – Black Rock Region: Summit Lake because Summit Lake is entirely within the exterior borders of the Summit Lake Indian Reservation ([See Figure 1](#)).

NAC 445A.1296

Amend the reach description in NAC 445A.1296 – Black Rock Region: Mahogany Creek to exclude the length of the creek within the exterior borders of the Summit Lake Indian Reservation ([See Figure 1](#)).

NAC 445A.1464

Amend the reach description in NAC 445A.1464 – Humboldt Region: Humboldt River, South Fork and tributaries at Lee to exclude the lengths of the river and tributaries within the exterior borders of the South Fork Indian Reservation ([See Figure 2](#)).

NAC 445A.1466

Amend the reach description in NAC 445A.1466 – Humboldt Region: Humboldt River, South Fork at the Humboldt River to exclude the lengths of the river within the exterior borders of the South Fork Indian Reservation ([See Figure 2](#)).

NAC 445A.1556

Amend the reach description in NAC 445A.1556 – Humboldt Region: Reese Creek at Indian Creek to exclude the length of the creek within the exterior borders of the Yomba Indian Reservation ([See Figure 3](#)). In addition, the waterbody name of NAC 445A.1556 will be changed from “Humboldt Region: Reese Creek at Indian Creek” to “Humboldt Region: Reese River at Indian Creek.”

NAC 445A.1558

Amend the reach description in NAC 445A.1558 – Humboldt Region: Reese River at State Route 722 to exclude the lengths of the river within the exterior borders of the Yomba Indian Reservation ([See Figure 3](#)).

NAC 445A.1694

Amend the reach description in NAC 445A.1694 – Truckee Region: Truckee River at the Wadsworth Gage to exclude the portion of the river within the exterior borders of the Pyramid Lake Paiute Reservation ([See Figure 4](#)). In addition, the name of NAC 445A.1694 will be changed from “Truckee Region: Truckee River at the Wadsworth Gage” to “Truckee Region: Truckee River at the Pyramid Lake Paiute Reservation.”

NAC 445A.16965

Remove NAC 445A.16965 – Truckee Region: Truckee River at Pyramid Lake because this length of the river is entirely within the exterior borders of the Pyramid Lake Paiute Reservation ([See Figure 4](#)).

NAC 445A.1804

Amend the reach description in NAC 445A.1804 – Carson Region: Carson River, East Fork at U.S. Highway 395 south of Gardnerville to exclude the lengths of the river within the exterior borders of the Washoe Indian Reservation ([See Figure 5](#)).

NAC 445A.1806

Amend the reach description in NAC 445A.1806 – Carson Region: Carson River, East Fork at Muller Lane to exclude the lengths of the river within the exterior borders of the Washoe Indian Reservation ([See Figure 5](#)).

NAC 445A.1812

Amend the reach description in NAC 445A.1812 – Carson Region: Carson River at Cradlebaugh Bridge to exclude the length of the river within the exterior borders of the Washoe Indian Reservation ([See Figure 6](#)).

NAC 445A.1836

Amend the reach description in NAC 445A.1836 – Carson Region: Clear Creek at the gaging station to exclude the length of the creek within the exterior borders of the Washoe Indian Reservation ([See Figure 7](#)).

NAC 445A.1838

Amend the reach description in NAC 445A.1838 – Carson Region: Clear Creek at the Carson River to exclude the lengths of the creek within the exterior borders of the Washoe Indian Reservation ([See Figure 7](#)).

NAC 445A.1906

Amend the reach description in NAC 445A.1906 – Walker Region: Walker River at the inlet to Weber Reservoir to exclude the portion of the river within the exterior borders of the Walker River Indian Reservation ([See Figure 8](#)). In addition, the name of NAC 445A.1906 will be changed from “Walker Region: Walker River at the inlet to Weber Reservoir” to “Walker Region: Walker River at the Walker River Indian Reservation.”

NAC 445A.1908

Amend the reach description in NAC 445A.1908 – Walker Region: Walker River at Schurz Bridge to exclude the portion of the river within the exterior borders of the Walker River Indian Reservation ([See Figure 8](#)). In addition, the name of NAC 445A.1908 will be changed from “Walker Region: Walker River at Schurz Bridge” to “Walker Region: Walker River at Walker Lake.”

NAC 445A.1924

Remove NAC 445A.1924 – Walker Region: Weber Reservoir because Weber Reservoir is entirely within exterior borders of the Walker River Indian Reservation ([See Figure 8](#)).

NAC 445A.2146

Amend the reach description in NAC 445A.2146 – Colorado Region: Colorado River below Davis Dam to exclude the length of the river within the exterior borders of the Fort Mojave Indian Reservation ([See Figure 9](#)).

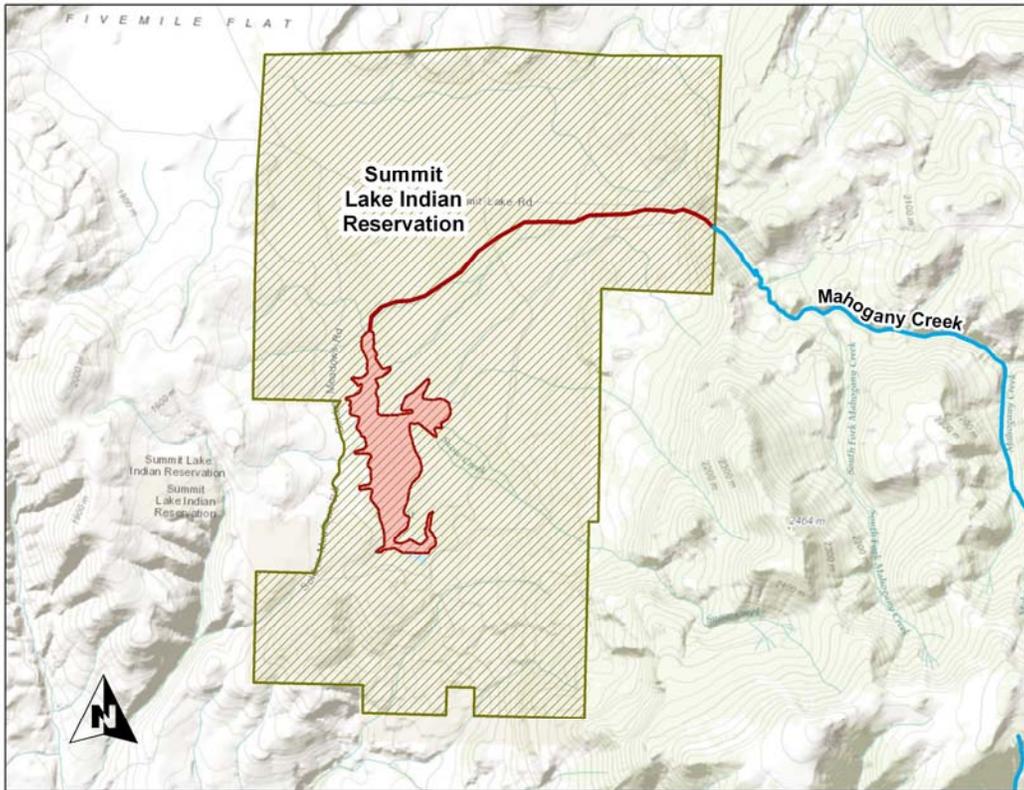


Figure 1: NAC 445A.1294 & NAC 445A.1296 - Summit Lake and Mahogany Creek and the Summit Lake Indian Reservation

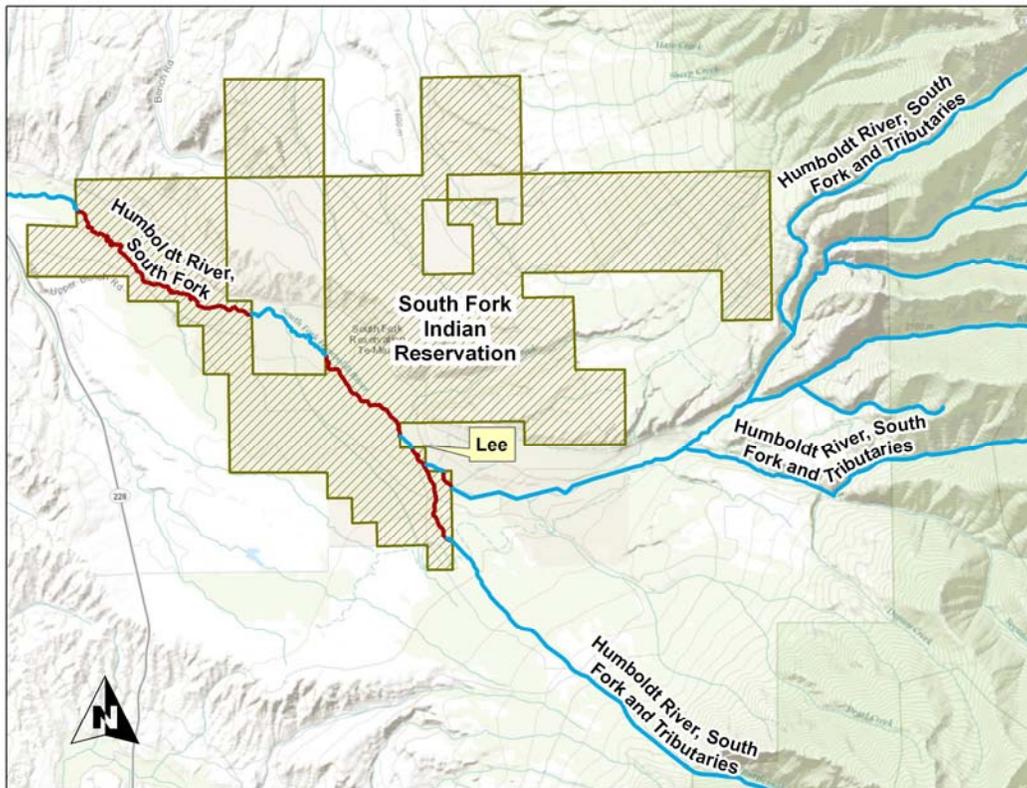


Figure 2: NAC 445A.1464 & 1466 - Humboldt River, South Fork and tributaries and the South Fork Indian Reservation

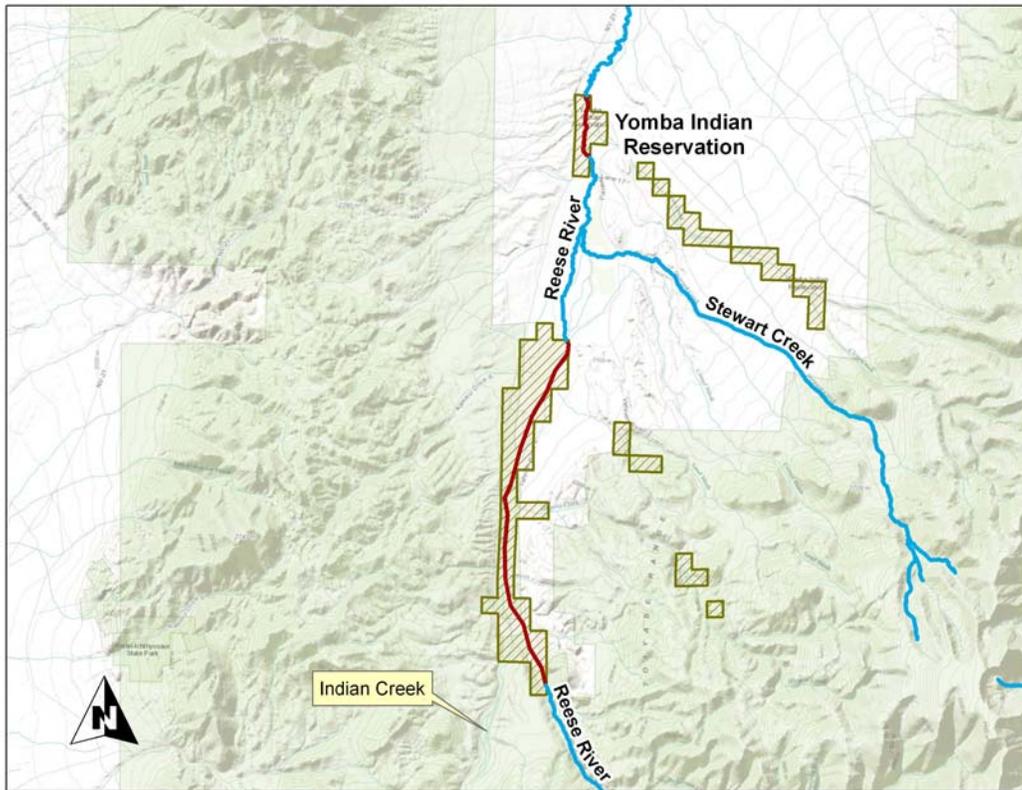


Figure 3: NAC 445A.1556 & 1558 - Reese River and the Yomba Indian Reservation

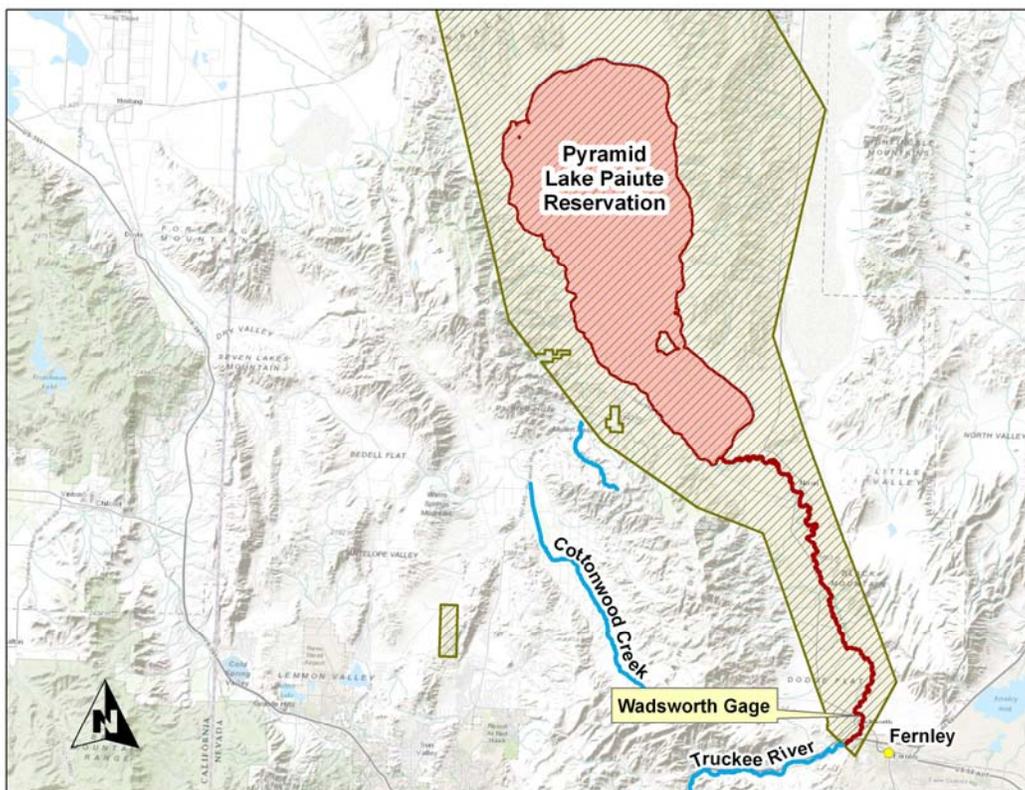


Figure 4: NAC 445A.1694 & 16965 - Truckee River and the Pyramid Lake Paiute Reservation

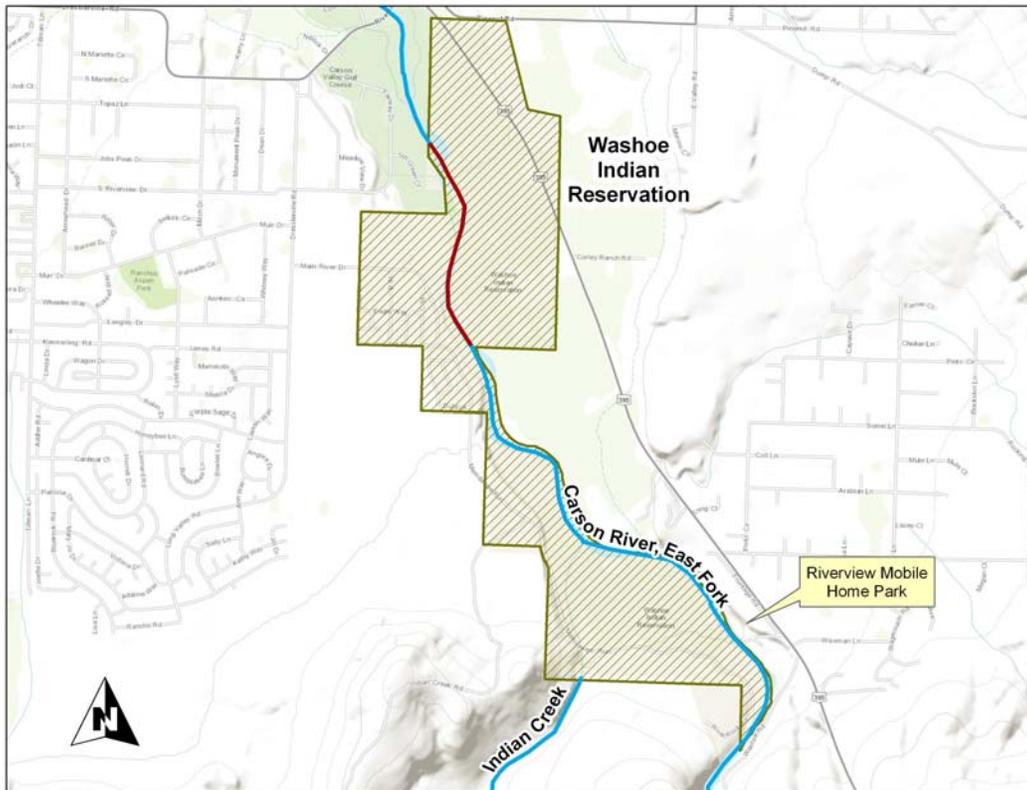


Figure 5: NAC 445A.1804 & 1806 - Carson River, East Fork and the Washoe Indian Reservation

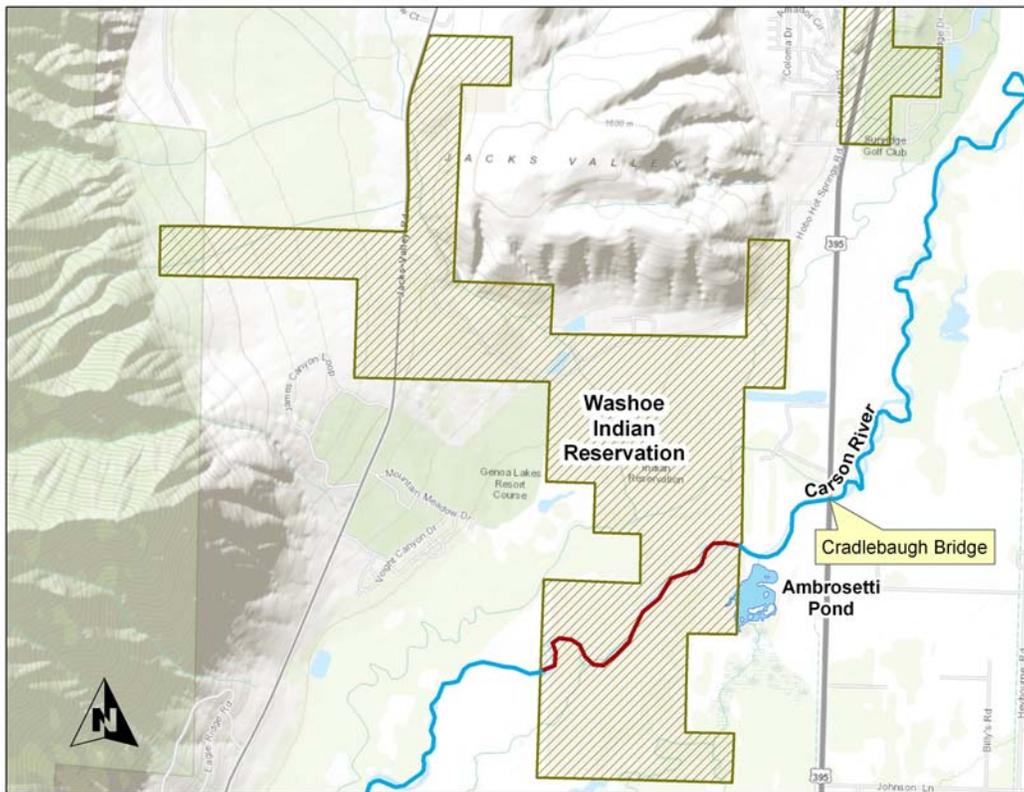


Figure 6: NAC 445A.1812 - Carson River at Cradlebaugh Bridge

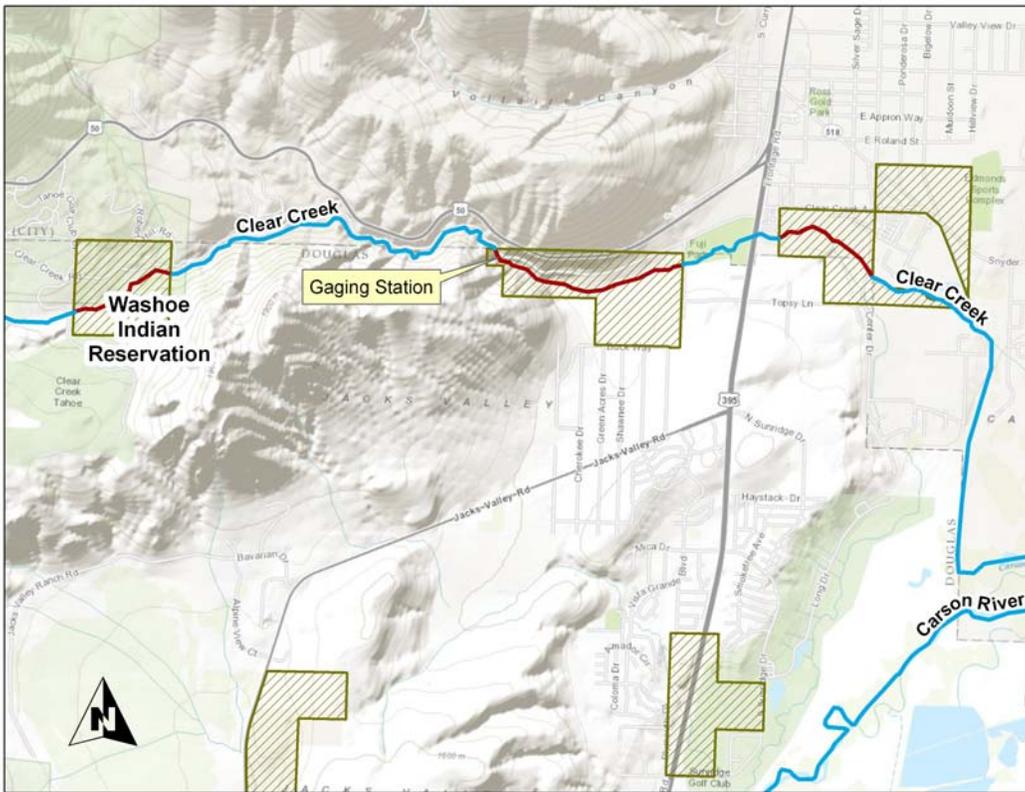


Figure 7: NAC 445A.1836 & 1838 - Clear Creek and the Washoe Indian Reservation

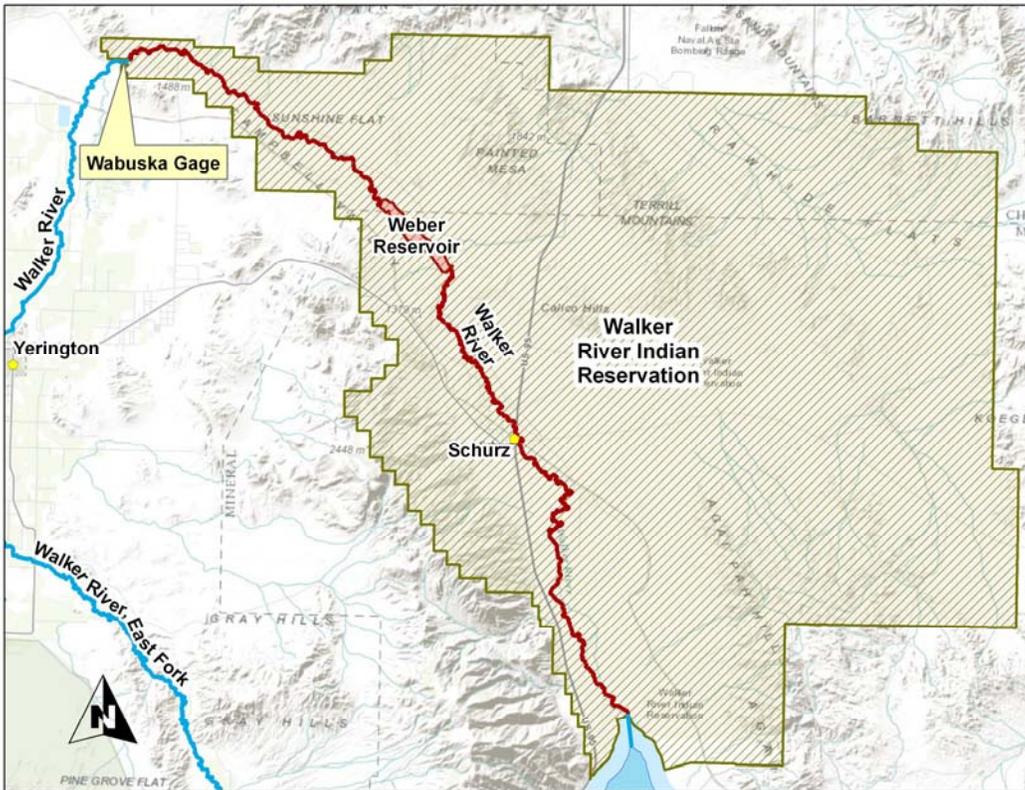


Figure 8: NAC 445A.1906, 1908, & 1924 - Walker River, Weber Reservoir, and the Walker River Indian Reservation

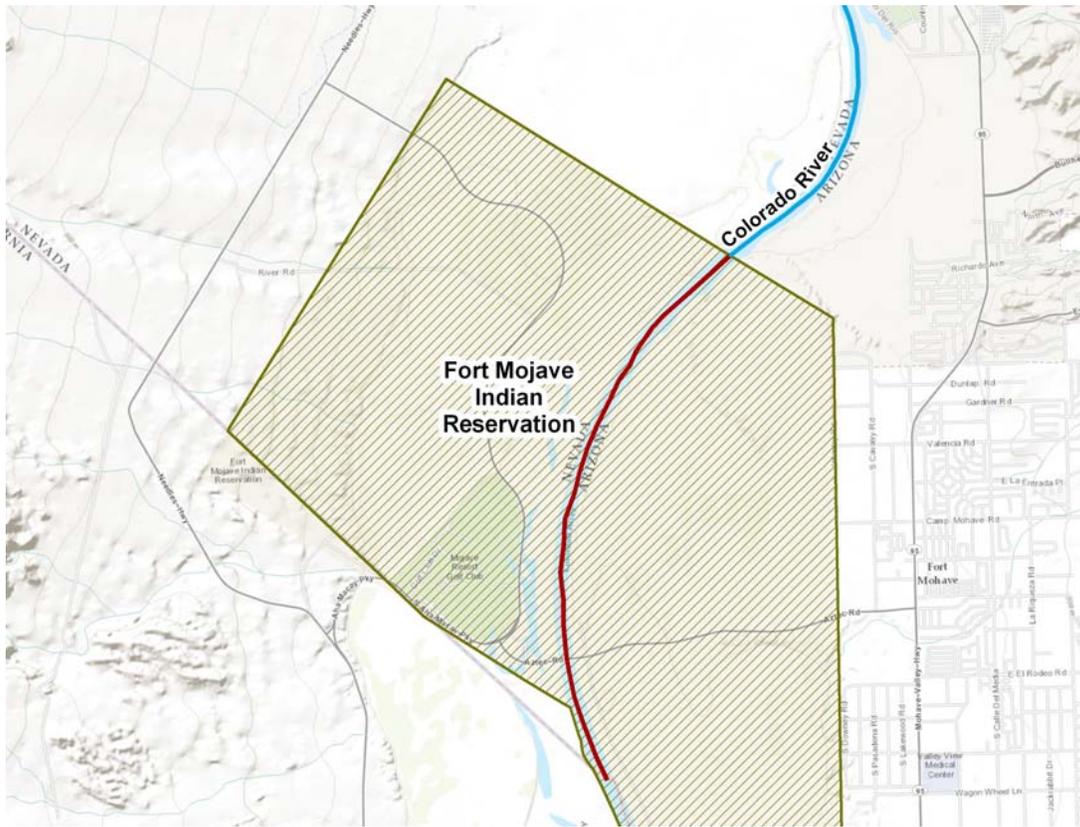


Figure 9: NAC 445A.2146 - Colorado River at the Fort Mojave Indian Reservation

Map Disclaimer

Figures 1 through 9, depicted above, are shown for general reference use only.

NDEP is working with Nevada Native American tribes and councils to determine reservation and tribal land boundaries. The boundary lines drawn on the preceding maps used county parcel maps, BLM Public Land Survey System (PLSS) maps, USGS Topography maps, and land descriptions from the tribes. Each tribe has been asked to confirm their boundary lines with NDEP using a secure web map application at: http://ndep-emap.nv.gov/Tribal_Lands/. This is an open project between NDEP and the DCNR Tribal Liaison.

PROPOSED REVISIONS

The proposed updates to the NAC are shown below with ~~deletions in red and strikeout~~ and *additions in blue*:

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.*

[Environmental Comm'n, Water Pollution Control Reg. § 4.1, eff. 5-2-78]—(NAC A 12-3-84; R017-99, 9-27-99; R160-06 & R083-08, 8-26-2008)

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 Use ^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			Trout:											
Temperature—°C ΔT ^b —°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	-	^e	-	-	*	-	-	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 ^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.

^e—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 ^a											
			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^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		^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		$\leq 200/400^d$	X	X		*	X	X		X				

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1282 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.

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

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 ^a												
			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 ^b - °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							
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 ^d	X	X		*	X	X		X					

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1432 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.

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

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 ^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			Trout.												
Temperature - °C ΔT^b - °C		S.V. ≤ 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. ≤ 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							
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		$\leq 200/400^d$	X	X		*	X	X		X					

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1432 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.

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

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 ^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															
Temperature - °C ΔT^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		^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		$\leq 200/400^d$	X	X			*	X	X		X				

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1432 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.

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

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 ^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			Trout.														
Temperature - °C ΔT ^b - °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		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 ^d	X	X		*	X	X		X							

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.1432 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.

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

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 ^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			Early spring spawning Lahontan cutthroat and their incubation, larvae, juveniles and migration, from May through June, depending on hydrologic conditions.														
Temperature - °C ΔT ^b - °C	ΔT = 0	S.V. Nov-Mar ≤ 13 ^c S.V. Apr-Jun ≤ 14 ^c S.V. Jul-Oct ≤ 25 ^d ΔT ≤ 2			*	X											
pH - SU	S.V. 7.1 - 8.6	S.V. 6.5 - 9.0 ΔpH ± 0.5	X	X	X	*		X	X	*							
Total Phosphates (as P) - mg/l		A-Avg. ≤ 0.05			*	*	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 Nitrate S.V. ≤ 0.04			*	*	X	X									
Total Ammonia (as N) - mg/l		e			*												
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		S.V. ≤ 75						*									
Total Dissolved Solids - mg/l	A-Avg. ≤ 245.0 S.V. ≤ 310.0	A-Avg. ≤ 500	X	X				*									
Chlorides - mg/l	A-Avg. ≤ 20.0 S.V. ≤ 28.0	S.V. ≤ 250	X	X				*			X						
Sulfate - mg/l	A-Avg. ≤ 39.0 S.V. ≤ 46.0	S.V. ≤ 250						*									
Sodium - SAR	A-Avg. ≤ 1.5 S.V. ≤ 2.0	A-Avg. ≤ 8		*				X									
Alkalinity (as CaCO ₃) - 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 ^g	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 The ambient water quality criteria for ammonia are specified in NAC 445A.118.
- f Increase in color must not be more than 10 PCU above natural conditions.
- g 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.

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

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 ^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			Early spring spawning Lahontan cutthroat trout and cui-ui, and their incubation, larvae, juveniles and migration, from May through June, depending on hydrologic conditions.											
Temperature—°C ΔT ^b —°C	ΔT=0	S.V. Nov-Mar ≤13 ^c S.V. Apr-Jun ≤14 ^c S.V. Jul-Oct ≤25 ^d ΔT ≤2	-	-	*	X	-	-	-	-	-	-	-	-
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 ₃)—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.

- ~~^e—When flows are adequate to induce spawning runs of cutthroat 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.~~

~~—(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)~~

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 ^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.													
Temperature - °C ΔT ^b - °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		^c			*											
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	^d	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 ₃) - 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 ^e	X	X		*	X	X		X						

* = 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 ambient 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 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.

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

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 ^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.													
Temperature - °C ΔT ^b - °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		^c			*											
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	^d	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 ₃) - 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	≤ 200/400 ^e	X	X		*	X	X		X						

* = 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 ambient 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 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.

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

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 ^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.														
Temperature - °C ΔT ^b - °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		^c			*												
Dissolved Oxygen - mg/l		S.V. Nov-Apr ≥ 6.0 S.V. May-Oct ≥ 5.0	X		*	X	X	X		X							
Suspended Solids - mg/l		S.V. ≤ 80			*												
Turbidity - NTU		S.V. ≤ 10			*			X									
Color - PCU	^d	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 ₃) - 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 ^e	X	X		*	X	X		X							

* = 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 ambient 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 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.

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

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 ^a											
			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 ^b - °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						
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95 th 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 ^d	X	X		*	X	X		X				

* = 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 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.

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

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 ^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			Trout.												
Temperature - °C ΔT ^b - °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		^c			*			X							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95 th 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 ^d	X	X		*	X	X		X					

* = 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 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.

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

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 ^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			Channel catfish and largemouth bass.													
Temperature - °C ΔT ^b - °C	ΔT = 0	S.V. Nov-Mar ≤ 13 S.V. Apr-June ≤ 23 ^c 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								
Nitrogen Species (as N) - mg/l	Total Nitrogen A-Avg. ≤ 1.2 S.V. ≤ 1.5	Nitrate S.V. ≤ 10 Nitrite S.V. ≤ 1 ^d	X		*	X	X	*		X						
Total Ammonia (as N) - mg/l		^e			*											
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		^f			*			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 ₃) - 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.

^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 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.

^d 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.

^e The ambient water quality criteria for ammonia are specified in NAC 445A.118.

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

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

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

The limits of this table apply to the Walker River from ~~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 ^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			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 ^b - °C	ΔT = 0	S.V. Nov-Mar ≤ 13 S.V. Apr-Jun ≤ 23 ^c 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		^e			*			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 ₃) – 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.

^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 temperature beneficial use standard is ≤ 21°C from February through June when Lahontan cutthroat trout are present.

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

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

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

~~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 Use ^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														
Temperature—°C ΔT^b—°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	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.~~

~~^e—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.~~

~~(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)~~

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 ^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																	
Temperature - °C ΔT ^b - °C	ΔT = 0	S.V. Nov-Apr ≤ 13 S.V. May-Jun ≤ 17 S.V. Jul-Oct ≤ 23 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. ≤ 0.02 S.V. ≤ 0.03	A-Avg. ≤ 0.05			*	*	X	X									
Nitrogen Species (as N) – mg/l	Nitrate A-Avg. ≤ 1.1 S.V. ≤ 1.6	Nitrate S.V. ≤ 10 Nitrite S.V. ≤ 0.06	X		*	X	X	*			X						
Total Ammonia (an N) – mg/l		^c			*												
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. ≤ 25			*												
Turbidity – NTU		S.V. ≤ 10			*			X									
Color – PCU		^d			*			X									
Total Dissolved Solids - mg/l		^e	X	X				*									
Alkalinity (as CaCO ₃) – mg/l		< 25% change from natural conditions			*						X						
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 236				*	X										
Fecal Coliform - No./100 ml	A.G.M. ≤ 50 S.V. ≤ 100	≤ 200/400 ^f	X	X		*	X	X			X						

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and 445A.2412 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 Increase in color must not be more than 10 PCU above natural conditions.

^e The salinity standard for the Colorado River system is specified in NAC 445A.143.

^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.

(Added to NAC by Environmental Comm'n by R160-06, eff. 8-26-2008)

SUMMARY

Changes will be made to the following NACs to exclude length(s) of the waterbodies within the exterior borders of Federal Indian Reservations, no changes to the criteria are proposed:

- NAC 445A.120 – Applicability
- NAC 445A.1296 – Black Rock Region: Mahogany Creek
- NAC 445A.1464 – Humboldt Region: Humboldt River, South Fork and tributaries at Lee
- NAC 445A.1466 – Humboldt Region: Humboldt River, South Fork at the Humboldt River
- NAC 445A.1556 – Humboldt Region: Reese Creek at Indian Creek
- NAC 445A.1558 – Humboldt Region: Reese River at State Route 722
- NAC 445A.1694 – Truckee Region: Truckee River at the Wadsworth Gage
- NAC 445A.1804 – Carson Region: Carson River, East Fork at U.S. Highway 395 south of Gardnerville
- NAC 445A.1806 – Carson Region: Carson River, East Fork at Muller Lane
- NAC 445A.1812 – Carson Region: Carson River at Cradlebaugh Bridge
- NAC 445A.1838 – Carson Region: Clear Creek at the gaging station
- NAC 445A.1838 – Carson Region: Clear Creek at the Carson River
- NAC 445A.1906 – Walker Region: Walker River at the inlet to Weber Reservoir
- NAC 445A.1908 – Walker Region: Walker River at Schurz Bridge
- NAC 445A.2146 – Colorado Region: Colorado River below Davis Dam

The following NACs will be removed because they are entirely within exterior borders of tribal land:

- NAC 445A.1294 – Black Rock Region: Summit Lake
- NAC 445A.16965 – Truckee Region: Truckee River at Pyramid Lake
- NAC 445A.1924 – Walker Region: Weber Reservoir