PROPOSED REGULATION OF THE

STATE ENVIRONMENTAL COMMISSION

LCB File No. R146-24

July 25, 2024

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

AUTHORITY: §§ 1-25, NRS 445A.425 and 445A.520.

A REGULATION relating to water quality; revising provisions relating to standards of water quality; and providing other matters properly relating thereto.

Legislative Counsel's Digest:

Existing law requires the State Environmental Commission to adopt regulations establishing water quality standards. (NRS 445A.425) Existing law further requires the Commission to establish water quality standards at a level designed to protect and ensure a continuation of the designated beneficial use or uses which the Commission has determined to be applicable to each stream segment or other body of surface water in the State. (NRS 445A.520) Existing regulations establish such water quality standards. (NAC 445A.11704-445A.2234)

Existing regulations set forth certain salinity standards, as adopted by the Colorado River Basin Salinity Control Forum in 2017, at the three lower main stem stations of the Colorado River. (NAC 445A.1233) **Section 1** of this regulation provides instead that the Commission adopts by reference the most current version of the salinity standards adopted by the Colorado River Basin Salinity Control Forum as the salinity standards for the portions of the Colorado River system in this State, unless the Commission determines that the most current version is not suitable for this State. **Sections 10-24** of this regulation make conforming changes to incorporate these salinity standards into the standards of water quality that have been adopted by the Commission and apply to specific portions of the Colorado Region.

Existing regulations set forth the designated beneficial uses and standards of water quality for the Squaw Creek Reservoir within the Black Rock Region of the State. (NAC 445A.1282, 445A.1288) **Sections 2 and 3** of this regulation provide instead that these designated beneficial uses and standards of water quality apply to Granite Mountain Reservoir within the Black Rock Region of this State.

Existing regulations set forth the designated beneficial uses and standards of water quality for Rock Creek at Squaw Valley Ranch and Rock Creek below Squaw Valley Ranch within the Humboldt Region of the State. (NAC 445A.1432, 445A.1518, 445A.1522) **Sections 4-6** of this regulation provide instead that these designated beneficial uses and standards of water quality apply to Rock Creek at Willow Creek and Rock Creek below Willow Creek within the Humboldt Region of the State.

Existing regulations set forth the designated beneficial uses and standards of water quality for Squaw Creek within the Walker Region of the State. (NAC 445A.1882, 445A.1928) **Sections 7 and 8** of this regulation provide instead that these designated beneficial uses and standards of water quality apply to Mud Spring Creek within the Walker Region of the State.

Existing regulations establish standards of water quality for Schroeder Reservoir within the Colorado Region of the State. (NAC 445A.2182) **Section 25** of this regulation repeals these standards. **Section 9** of this regulation makes conforming changes to eliminate references to Schroeder Reservoir.

Existing regulations set forth the standards of water quality for Beaver Dam Wash above Schroeder Reservoir within the Colorado Region. (NAC 445A.2178) **Section 23** of this regulation provides instead that these standards of water quality apply to Beaver Dam Wash within the State.

Section 1. NAC 445A.1233 is hereby amended to read as follows:

445A.1233 1. The State of Nevada will cooperate with the other Colorado River Basin states and the Federal Government to support and carry out the conclusions and recommendations adopted April 27, 1972, by the Reconvened 7th Session of the Conference in the Matter of Pollution of the Interstate Waters of the Colorado River and its Tributaries.

2. ~~[~~Pursuant to~~]~~ ***Except as otherwise provided in subsection 3, the Commission hereby adopts by reference*** the ~~[~~"2017~~]~~ ***most current version of "*** Review - Water Quality Standards for Salinity, Colorado River System," ~~[~~as~~]~~ adopted by the Colorado River Basin Salinity Control Forum ~~[~~, the flow-weighted annual average concentrations for the calendar year for total dissolved solids in mg/L at the three lower main stem stations of the Colorado River are as follows:

~~Station~~ ~~Salinity in mg/L~~

~~Below Hoover Dam.....723~~

~~Below Parker Dam .....747~~

~~At Imperial Dam.....879]~~

as the salinity standards for the portions of the Colorado River system in this State. The publication is available, free of charge, from the Division or at the Internet address https://www.coloradoriversalinity.org.

3. If the publication adopted by reference pursuant to subsection 2 is revised, the Commission may review the revision to determine its suitability for this State. If the Commission determines that the revision is not suitable for this State, it will hold a public hearing to review its determination and give notice of that hearing within 6 months after the date of the publication of the revision. If, after the hearing, the Commission does not revise its determination, the Commission will give notice that the revision is not suitable for this State within 30 days after the hearing. If the Commission does not give such notice, the revision becomes part of the publication adopted by reference.

Sec. 2. NAC 445A.1282 is hereby amended to read as follows:

445A.1282 The designated beneficial uses for select bodies of water within the Black Rock 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		
Smoke Creek	From the California-Nevada state line to the Smoke Creek Desert.	X	X	X	X	X			X					NAC 445A.1286
~~[Squaw Creek]~~ ***Granite Mountain*** Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1288

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	
Negro Creek	From its origin to the first irrigation diversion, near the west line of section 28, T. 36 N., R. 23 E., M.D.B. & M.	X	X	X	X	X	X		X				NAC 445A.1292
Mahogany Creek	From its origin to the exterior border of the Summit Lake Indian Reservation.	X	X	X	X	X	X		X				NAC 445A.1296
Leonard Creek	From its origin to the first point of diversion, near the south line of section 12, T. 42 N., R. 28 E., M.D.B. & M.	X	X	X	X	X	X		X				NAC 445A.1298
Bilk Creek, upper	From its origin to its intersection with the south line of section 35, T. 45 N., R. 32 E., M.D.B. & M.	X	X	X	X	X	X		X				NAC 445A.1302
Bilk Creek at Bilk Creek Reservoir	From its intersection with the south line of section 35, T. 45 N., R. 32 E., M.D.B. & M., to Bilk Creek Reservoir.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1304
Bilk Creek Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1306
Bottle Creek	From its origin to the first point of diversion, near the east line of section 23, T. 40 N., R. 32 E., M.D.B. & M.	X	X	X	X	X	X		X				NAC 445A.1308
Quinn River, East and South Forks	From their origin to the confluence of the East and South Forks, except for the length of the river within the exterior borders of the Fort McDermitt Indian Reservation.	X	X	X	X	X	X		X				NAC 445A.1312
Quinn River (the slough)	From the Oregon-Nevada state line in section 31, T. 48 N., R. 38 E., M.D.B. & M., to the confluence with the main tributary of the Quinn River at the south line of section 17, T. 47 N., R. 38 E., M.D.B. & M., except for the length of the river within the exterior borders of the Fort McDermitt Indian Reservation.	X	X	X		X		X	X					NAC 445A.1316

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. 3. NAC 445A.1288 is hereby amended to read as follows:

445A.1288 The limits of this table apply to the entire body of water known as ~~[Squaw Creek]~~ ***Granite Mountain*** Reservoir. ~~[Squaw Creek]~~ ***Granite Mountain*** Reservoir is located in Washoe County.

STANDARDS OF WATER QUALITY

~~[Squaw Creek]~~ ***Granite Mountain*** Reservoir

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			Trout.										
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.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 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. NAC 445A.1432 is hereby amended to read as follows:

445A.1432 The designated beneficial uses for select bodies of water within the Humboldt 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		
Humboldt River near Osino	From the upstream source of the main stem to Osino.	X	X	X	X	X	X	X	X				Warm-water fishery	NAC 445A.1436
Humboldt River at Palisade	From Osino to the Palisade Gage.	X	X	X	X	X	X	X	X				Warm-water fishery	NAC 445A.1438
Humboldt River at Battle Mountain	From the Palisade Gage to the Battle Mountain Gage.	X	X	X	X	X	X	X	X				Warm-water fishery	NAC 445A.1442
Humboldt River at State Highway 789	From the Battle Mountain Gage to where State Highway 789 crosses the Humboldt River.	X	X	X	X	X	X	X	X				Warm-water fishery	NAC 445A.1444
Humboldt River at Imlay	From where State Highway 789 crosses the Humboldt River to Imlay.	X	X	X	X	X	X	X	X				Warm-water fishery	NAC 445A.1446
Humboldt River at Woolsey	From Imlay to Woolsey.	X	X	X	X	X	X	X	X				Warm-water fishery	NAC 445A.1448
Humboldt River at Rodgers Dam	From Woolsey to Rodgers Dam.	X	X	X	X	X	X	X	X					NAC 445A.1452
Humboldt River at the Humboldt Sink	From Rodgers Dam to the Humboldt Sink.	X	X	X	X	X		X	X					NAC 445A.1454
The Humboldt Sink	The entire sink.	X	X	X		X		X	X					NAC 445A.1455
Humboldt River, North Fork and tributaries at the national forest boundary	From their origin in the Independence Mountain Range to the national forest boundary.	X	X	X	X	X	X	X	X					NAC 445A.1456
Humboldt River, North Fork at Beaver Creek	From the national forest boundary to its confluence with Beaver Creek.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1458
Humboldt River, North Fork at the Humboldt River	From its confluence with Beaver Creek to its confluence with the Humboldt River.	X	X	X	X	X	X	X	X					NAC 445A.1462
Humboldt River, South Fork at South Fork Reservoir, including tributaries above Lee	From its origin to South Fork Reservoir, including its tributaries above Lee, except for the length of the river and the lengths of its tributaries within the exterior borders of the South Fork Indian Reservation.	X	X	X	X	X	X	X	X					NAC 445A.1464
South Fork Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1465
Humboldt River, South Fork at the Humboldt River	From South Fork Reservoir to its confluence with the Humboldt River.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1466
Little Humboldt River	The entire length.	X	X	X	X	X	X	X	X					NAC 445A.1468
Little Humboldt River, North Fork at the national forest boundary	From its origin to the national forest boundary.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1472
Little Humboldt River, North Fork at the South Fork of the Little Humboldt River	From the national forest boundary to its confluence with the South Fork of the Little Humboldt River.	X	X	X	X	X	X	X	X					NAC 445A.1474

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		
Little Humboldt River, South Fork at the Elko-Humboldt county line	From its origin to the Elko-Humboldt county line.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1476
Little Humboldt River, South Fork at the North Fork of the Little Humboldt River	From the Elko-Humboldt county line to its confluence with the North Fork of the Little Humboldt River.	X	X	X	X	X	X	X	X					NAC 445A.1478
Marys River, upper	From its origin to the point where the river crosses the east line of T. 42 N., R. 59 E., M.D.B. & M.	X	X	X	X	X	X	X	X					NAC 445A.1482
Marys River at the Humboldt River	From the east line of T. 42 N., R. 59 E., M.D.B. & M., to its confluence with the Humboldt River.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1484
Tabor Creek	From its origin to the east line of T. 40 N., R. 60 E., M.D.B. & M.	X	X	X	X	X	X	X	X					NAC 445A.1486
Maggie Creek Tributaries	From their origin to the point where they become Maggie Creek or the point of their confluence with Maggie Creek.	X	X	X	X	X	X	X	X					NAC 445A.1488
Maggie Creek at Jack Creek	From where it is formed by the Maggie Creek tributaries to its confluence with Jack Creek.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1492
Maggie Creek at Soap Creek	From its confluence with Jack Creek to its confluence with Soap Creek.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1494
Maggie Creek at the Humboldt River	From its confluence with Soap Creek to its confluence with the Humboldt River.	X	X	X	X	X	X	X	X					NAC 445A.1496
Secret Creek at the national forest boundary	From its origin to the national forest boundary.	X	X	X	X	X	X	X	X					NAC 445A.1498
Secret Creek at the Humboldt River	From the national forest boundary to its confluence with the Humboldt River.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1502
Lamoille Creek at the gaging station	From its origin to gaging station number 10-316500, located in the NE 1/4 of section 6, T. 32 N., R. 58 E., M.D.B. & M.	X	X	X	X	X	X	X	X					NAC 445A.1504
Lamoille Creek at the Humboldt River	From gaging station number 10-316500, located in the NE 1/4 of section 6, T. 32 N., R. 58 E., M.D.B. & M., to its confluence with the Humboldt River.	X	X	X	X	X	X	X	X					NAC 445A.1506
J.D. Ponds	The entire area.	X	X	X	X	X	X	X	X					NAC 445A.1508
Denay Creek at Tonkin Reservoir	From its origin to Tonkin Reservoir.	X	X	X	X	X	X	X	X					NAC 445A.1512

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		
Tonkin Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X					NAC 445A.1514
Denay Creek below Tonkin Reservoir	Below Tonkin Reservoir.	X	X	X	X	X	X	X	X					NAC 445A.1516
Rock Creek at ~~[Squaw Valley Ranch]~~ ***Willow Creek***	From its origin to ~~[Squaw Valley Ranch.]~~ ***Willow Creek.***	X	X	X	X	X	X	X	X				Trout	NAC 445A.1518
Rock Creek below ~~[Squaw Valley Ranch]~~ ***Willow Creek***	Below ~~[Squaw Valley Ranch.]~~ ***Willow Creek.***	X	X	X	X	X	X	X	X					NAC 445A.1522
Willow Creek at Willow Creek Reservoir	From its origin to Willow Creek Reservoir.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1524
Willow Creek Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1526
North Antelope Creek	From its origin to its confluence with Antelope Creek.	X		X	X	X		X	X					NAC 445A.1527
Pole Creek	From its origin to the point of diversion of the Golconda water supply, near the north line of section 13, T. 35 N., R. 39 E., M.D.B. & M.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1528
Water Canyon Creek	From its origin to the point of diversion of the Winnemucca municipal water supply, near the west line of section 12, T. 35 N., R. 38 E., M.D.B. & M.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1532
Martin Creek at the national forest boundary	From its origin to the national forest boundary.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1534
Martin Creek below the national forest boundary	From the national forest boundary to the first diversion in T. 42 N., R. 40 E., M.D.B. & M.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1536
Dutch John Creek	The entire length.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1538
Huntington Creek at the White Pine-Elko county line	From its origin to the White Pine-Elko county line.	X	X	X	X	X	X	X	X					NAC 445A.1542
Huntington Creek at Smith Creek	From the White Pine-Elko county line to its confluence with Smith Creek.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1544
Huntington Creek at the South Fork of the Humboldt River	From its confluence with Smith Creek to its confluence with the South Fork of the Humboldt River.	X	X	X	X	X	X	X	X					NAC 445A.1546
Green Mountain Creek at Toyn Creek	From its origin to its confluence with Toyn Creek.	X	X	X	X	X	X	X	X					NAC 445A.1548
Toyn Creek at Corral Creek	From its confluence with Green Mountain Creek to its confluence with Corral Creek.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1552

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		
Toyn Creek at Green Mountain Creek	From its origin to its confluence with Green Mountain Creek.	X	X	X	X	X	X	X	X					NAC 445A.1554
Reese River at Indian Creek	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.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1556
Reese River at State Route 722	From its confluence with Indian Creek to State Route 722 (old U.S. Highway 50), except for the length of the river within the exterior borders of the Yomba Indian Reservation.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1558
Reese River below State Route 722	North of State Route 722 (old U.S. Highway 50).	X	X	X	X	X	X	X	X					NAC 445A.1562
San Juan Creek	From its origin to the national forest boundary.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1564
Big Creek at the forest service campground	From its origin to the east boundary of the United States Forest Service's Big Creek Campground.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1566
Big Creek below the forest service campground	From the east boundary of the United States Forest Service's Big Creek Campground to the first diversion dam, near the west line of section 4, T. 17 N., R. 43 E., M.D.B. & M.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1568
Mill Creek	From its origin to the first point of diversion, near the south line of section 22, T. 29 N., R. 44 E., M.D.B. & M.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1572
Lewis Creek	From its origin to the first point of diversion, near the center of section 23, T. 30 N., R. 45 E., M.D.B. & M.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1574
Iowa Canyon Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1576
Starr Creek	From the confluence of Ackler and Herder Creeks to its confluence with the Humboldt River.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1578

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

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		
Aesthetic	Extraordinary ecological, aesthetic or recreational value													
Enhance	Enhancement of water quality													
Marsh	Maintenance of a freshwater marsh													

Sec. 5. NAC 445A.1518 is hereby amended to read as follows:

445A.1518 The limits of this table apply to the body of water known as Rock Creek from its origin to ~~[Squaw Valley Ranch.]~~ ***its confluence with Willow Creek.*** This segment of Rock Creek is located in Elko County.

STANDARDS OF WATER QUALITY

Rock Creek at ~~[Squaw Valley Ranch]~~ ***Willow 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			Trout.										
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			*	*							
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. ≤ 25			*								
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		S.V. ≤ 75						*					
Total Dissolved Solids - mg/L		S.V. ≤ 500						*					
Chloride - mg/L		1-hr Avg. ≤ 860[d] 96-hr Avg. ≤ 230			*								
Sulfate - mg/L		S.V. ≤ 250						*					
Alkalinity (as $CaCO_3$) - mg/L		S.V. ≥ 20			*								

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
E. coli - cfu/100 mL[e]		G.M. ≤ 126 S.V. ≤ 410				*							
Fecal Coliform - No./100 mL		S.V. ≤ 1,000		*									
Toxic Materials		[f]											

* = 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 water quality criteria for ammonia are specified in NAC 445A.118.
[d] One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
[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. 6. NAC 445A.1522 is hereby amended to read as follows:

445A.1522 The limits of this table apply to the body of water known as Rock Creek below ~~[Squaw Valley Ranch.]~~ ***Willow Creek.*** This segment of Rock Creek is located in Elko, Eureka and Lander Counties.

STANDARDS OF WATER QUALITY

Rock Creek below ~~[Squaw Valley Ranch]~~ ***Willow 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													
Temperature °C ΔT^b - °C		S.V. ≤ 34 ΔT ≤ 3			*								
pH - SU		S.V. 6.5 - 9.0			*								
Dissolved Oxygen - mg/L		S.V. ≥ 5.0			*								
Total Phosphorus (as P) - mg/L		S.V. ≤ 0.33			*								
Nitrate (as N) - mg/L		S.V. ≤ 10						*					
Nitrite (as N) - mg/L		S.V. ≤ 1.0						*					

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
Total Ammonia (as N) - mg/L		[c]			*								
Total Suspended Solids - mg/L		S.V. ≤ 80			*								
Turbidity - NTU		S.V. ≤ 50			*								
Color - PCU		S.V. ≤ 75						*					
Total Dissolved Solids - mg/L		S.V. ≤ 500						*					
Chloride - mg/L		1-hr Avg. ≤ 860[d] 96-hr Avg. ≤ 230			*								
Sulfate - mg/L		S.V. ≤ 250						*					
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. ≤ 1,000		*									
Toxic Materials		[f]											

* = 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 water quality criteria for ammonia are specified in NAC 445A.118.
[d] One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
[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. 7. NAC 445A.1882 is hereby amended to read as follows:

445A.1882 The designated beneficial uses for select bodies of water within the Walker 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		
Walker River, West Fork at the state line	At the California-Nevada state line.	X	X	X	X	X	X	X	X				Mountain whitefish, rainbow trout and brown trout	NAC 445A.1886

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		
Topaz Lake	At various points in Topaz Lake.	X	X	X	X	X	X	X	X				Rainbow trout, cutthroat trout, brown trout, kokanee salmon and silver salmon	NAC 445A.1888
Walker River, West Fork near Wellington	From the California-Nevada state line to near Wellington.	X	X	X	X	X	X	X	X				Mountain whitefish, rainbow trout and brown trout	NAC 445A.1892
Walker River, West Fork at the East Fork of the Walker River	Near Wellington to its confluence with the East Fork of the Walker River near Nordyke Road.	X	X	X	X	X	X	X	X				Brown trout and rainbow trout	NAC 445A.1894
Sweetwater Creek	From the California-Nevada state line to its confluence with the East Fork of the Walker River.	X	X	X	X	X	X	X	X				Mountain whitefish, brown trout, brook trout and rainbow trout	NAC 445A.1896
Walker River, East Fork at the state line	At the California-Nevada state line.	X	X	X	X	X	X	X	X				Mountain whitefish, rainbow trout and brown trout	NAC 445A.1898
Walker River, East Fork at Bridge B-1475	From the California-Nevada state line to Bridge B-1475.	X	X	X	X	X	X	X	X				Mountain whitefish, rainbow trout and brown trout	NAC 445A.1902
Walker River, East Fork at the West Fork of the Walker River	From Bridge B-1475 to its confluence with the West Fork of the Walker River near Nordyke Road.	X	X	X	X	X	X	X	X				Brown trout and rainbow trout	NAC 445A.1904
Walker River at the Walker River Indian Reservation	From the confluence of the East Fork of the Walker River and the West Fork of the Walker River to the exterior border of the Walker River Indian Reservation.	X	X	X	X	X	X	X	X				Channel catfish and largemouth bass	NAC 445A.1906
Walker River at Walker Lake	From the exterior border of the Walker River Indian Reservation to Walker Lake.	X	X	X	X	X	X	X	X				Channel catfish, largemouth bass and, from February through June when an adequate flow exists, adult Lahontan cutthroat trout and adult rainbow trout	NAC 445A.1908
Walker Lake	The entire lake.			X	X	X			X				Tui chub, Tahoe sucker, and adult and juvenile Lahontan cutthroat trout	NAC 445A.1914

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		
Desert Creek	From the California-Nevada state line to its confluence with the West Fork of the Walker River.	X	X	X	X	X	X	X	X				Brown trout, brook trout and rainbow trout	NAC 445A.1916
Mason Valley Wildlife Management Area - Bass, Crappie and North Ponds and Hinkson Slough	Hinkson Slough, Bass Pond, Crappie Pond and North Pond.	X	X	X	X	X	X	X	X				Trout	NAC 445A.1918
Mason Valley Wildlife Management Area	All surface water impoundments, excluding Hinkson Slough, Bass Pond, Crappie Pond and North Pond.	X	X	X	X	X	X	X	X					NAC 445A.1922
Cottonwood Creek	From its origin to the point of diversion of the Hawthorne Naval Ammunition Depot, near the north line of section 34, T. 9 N., R. 28 E., M.D.B. & M.	X	X	X	X	X	X		X					NAC 445A.1926
~~[Squaw]~~ ***Mud Spring*** Creek	From its origin to the point of diversion of the Hawthorne Naval Ammunition Depot, near the north line of section 33, T. 9 N., R. 29 E., M.D.B. & M.	X	X	X	X	X	X		X					NAC 445A.1928
Rose Creek	From its origin to the point of diversion of the Hawthorne Naval Ammunition Depot, near the north line of section 4, T. 8 N., R. 29 E., M.D.B. & M.	X	X	X	X	X	X		X					NAC 445A.1932
Corey Creek	From its origin to the point of diversion of the town of Hawthorne, near the west line of section 3, T. 7 N., R. 29 E., M.D.B. & M.	X	X	X	X	X	X		X					NAC 445A.1934

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.1928 is hereby amended to read as follows:

445A.1928 The limits of this table apply to the body of water known as ~~[Squaw]~~ ***Mud Spring*** Creek from its origin to the point of diversion of the Hawthorne Naval Ammunition Depot, near the north line of section 33, T. 9 N., R. 29 E., M.D.B. & M. ~~[Squaw]~~ ***Mud Spring*** Creek is located in Mineral County.

STANDARDS OF WATER QUALITY

~~[Squaw]~~ ***Mud Spring*** 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			
Aquatic Life Species of Concern													
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. ≤ 1,000		*									
Toxic Materials		[e]											

* = 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 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. 9. NAC 445A.2142 is hereby amended to read as follows:

445A.2142 The designated beneficial uses for select bodies of water within the Colorado 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		
Colorado River below Davis Dam	Colorado River, from Davis Dam to the California-Nevada state line, except for the length of the river within the exterior borders of the Fort Mojave Indian Reservation.	X	X	X	X	X	X	X	X				Adult cold-water fishery	NAC 445A.2146
Lake Mohave	The entire lake.	X	X	X	X	X	X	X	X				Adult cold-water fishery	NAC 445A.2147
Colorado River below Hoover Dam	From Hoover Dam to Willow Beach.	X	X	X	X	X	X	X	X				Adult cold-water fishery	NAC 445A.2148
Lake Mead	Lake Mead, excluding the area covered by NAC 445A.2154, Inner Las Vegas Bay.	X	X	X	X	X	X	X	X				Warm-water fishery	NAC 445A.2152
Inner Las Vegas Bay	Lake Mead from the confluence of the Las Vegas Wash with Lake Mead to 1.2 miles into Las Vegas Bay.	X	X	X		X		X	X				Warm-water fishery	NAC 445A.2154
Las Vegas Wash at the Historic Lateral	From the confluence of Sloan Channel and Las Vegas Wash to the Historic Lateral. This segment encompasses the discharge from Clark County wastewater treatment plant, the City of Las Vegas wastewater treatment plant and the City of Henderson wastewater treatment plant.	X	X	X		X			X			X	Warm-water fish.	NAC 445A.2156
Las Vegas Wash at Lake Mead	From the Historic Lateral to its confluence with Lake Mead.	X	X	X		X			X			X	Warm-water fish.	NAC 445A.2158
Channels tributary to the Las Vegas Wash	Flamingo Wash, Sloan Channel, Duck Creek and Las Vegas Creek from the applicable origin to the confluence with the Las Vegas Wash. Pittman Wash from its origin to the confluence with Duck Creek. Tropicana Wash from its origin to the confluence with Flamingo Wash. Upper Las Vegas Wash from its origin to the confluence with Sloan Channel.					X			X					Section 1 of ***LCB File No.*** R115-22
Lake Las Vegas	The entire lake.		X	X	X	X			X				Warm-water fishery.	NAC 445A.2161
Virgin River at the state line	At the Arizona-Nevada state line, near Littlefield, Arizona.	X	X	X		X		X	X					NAC 445A.2162
Virgin River at Mesquite	From the Arizona-Nevada state line to Mesquite.	X	X	X		X		X	X					NAC 445A.2164
Virgin River at Lake Mead	From Mesquite to the river mouth at Lake Mead.	X	X	X		X		X	X					NAC 445A.2166

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		
Muddy River at the Glendale Bridge	From the river source to the Glendale Bridge, except for the length of the river within the exterior borders of the Moapa Indian Reservation.	X	X	X	X	X	X	X	X					NAC 445A.2168
Muddy River at the Wells Siding Diversion	From the Glendale Bridge to the Wells Siding Diversion.	X	X	X	X	X		X	X					NAC 445A.2172
Muddy River at Lake Mead	From the Wells Siding Diversion to the river mouth at Lake Mead.	X	X	X	X	X		X	X					NAC 445A.2174
Meadow Valley Wash	From the bridge above Rox to its confluence with the Muddy River.	X	X	X		X		X	X					NAC 445A.2176
Beaver Dam Wash	~~[Above Schroeder Reservoir.]~~ ***Within the State of Nevada.***	X	X	X	X	X	X	X	X					NAC 445A.2178
~~[Schroeder Reservoir~~	~~The entire reservoir.~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~				~~Trout~~	~~NAC 445A.2182]~~
White River at the national forest boundary	From its origin to the national forest boundary.	X	X	X	X	X	X		X					NAC 445A.2184
White River at Ellison Creek	From the national forest boundary to its confluence with Ellison Creek.	X	X	X	X	X	X	X	X				Trout	NAC 445A.2186
Dacey Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X					NAC 445A.2188
Sunnyside Creek	From its origin to Adams McGill Reservoir.	X	X	X	X	X	X	X	X					NAC 445A.2192
Adams McGill Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X					NAC 445A.2194
Hay Meadow Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X				Trout	NAC 445A.2196
Nesbitt Lake	The entire lake.	X	X	X	X	X	X	X	X					NAC 445A.2198
Pahranagat Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X					NAC 445A.2202
Bowman Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X					NAC 445A.2204
Eagle Valley Creek	From its headwaters to Eagle Valley Reservoir.	X	X	X	X	X	X	X	X				Trout	NAC 445A.2206
Eagle Valley Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X				Trout	NAC 445A.2208
Echo Canyon Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X				Trout	NAC 445A.2212
Clover Creek	From its origin to the point where it crosses the east range line of T. 4 S., R. 67 E., M.D.B. & M.	X	X	X	X	X	X	X	X				Trout	NAC 445A.2214

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

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		
Enhance	Enhancement of water quality													
Marsh	Maintenance of a freshwater marsh													

Sec. 10. NAC 445A.2146 is hereby amended to read as follows:

445A.2146 The limits of this table apply to the body of water known as the Colorado River from Davis Dam to the California-Nevada state line, except for the length 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 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			Adult cold-water fishery.										
Temperature - °C ΔT^b - °C	$\Delta T = 0$	S.V. ≤ 24 $\Delta T \leq 2$			*								
pH - SU		S.V. 6.5 - 9.0 $\Delta pH \pm 0.5$			*								
Dissolved Oxygen - mg/L		S.V. ≥ 5.0			*								
Total Phosphorus (as P) - mg/L	A-Avg. ≤ 0.02 S.V. ≤ 0.03	A-Avg. ≤ 0.05			*	*							
Nitrate (as N) - mg/L	A-Avg. ≤ 1.1 S.V. ≤ 1.6	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. ≤ 25			*								
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		S.V. ≤ 75						*					
Total Dissolved Solids - mg/L		[d]						*					
Chloride - mg/L		S.V. ≤ 400[d]						*					
Sulfate - mg/L		S.V. ≤ 500[d]						*					

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. ≤ 50 S.V. ≤ 100	S.V. ≤ 1,000		*									
Toxic Materials		[f]											

* = The most restrictive beneficial use.
X = Beneficial use.
[a] Refer to NAC 445A.122 and 445A.2142 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 salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.
[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.2147 is hereby amended to read as follows:

445A.2147 The limits of this table apply to the body of water known as Lake Mohave, which extends from Willow Beach to Davis Dam. Lake Mohave is located in Clark County.

STANDARDS OF WATER QUALITY

Colorado River: Lake Mohave

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			Adult cold-water fishery.										
Temperature -°C ΔT[b] - °C	$\Delta T = 0$	S.V. ≤24 $\Delta T \leq 2$			*								
pH - SU		S.V. 6.5 - 9.0 $\Delta pH \pm 0.5$			*								
Dissolved Oxygen - mg/L		S.V. ≥ 5.0[c]			*								
Total Phosphorus (as P) - mg/L		A-Avg. ≤ 0.05			*	*							
Nitrate (as N) - mg/L		S.V. ≤ 10						*					
Nitrite (as N) - mg/L		S.V. ≤ 0.06			*								
Total Ammonia		[d]			*								

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
(as N) - mg/L													
Total Suspended Solids - mg/L		S.V. ≤ 25			*								
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		S.V. ≤ 75						*					
Total Dissolved Solids - mg/L		[e]						*					
Chloride - mg/L		S.V. ≤ 400[e]						*					
Sulfate - mg/L		S.V. ≤ 500[e]						*					
Alkalinity (as $CaCO_3$) - mg/L		S.V. ≥ 20			*								
E. coli - cfu/100 mL[f]		G.M. ≤ 126 S.V. ≤ 410				*							
Fecal Coliform - No./100 mL		S.V. ≤ 1,000		*									
Toxic Materials		[g]											

* = The most restrictive beneficial use.
X = Beneficial use.
[a] Refer to NAC 445A.122 and 445A.2142 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] Applies to the epilimnion when stratified, or average in water column during periods of nonstratification.
[d] The water quality criteria for ammonia are specified in NAC 445A.118.
[e] The salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.
[f] 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.
[g] The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 12. NAC 445A.2148 is hereby amended to read as follows:

445A.2148 The limits of this table apply to the body of water known as the Colorado River from Hoover Dam to Willow Beach. This segment of the Colorado River is located in Clark County.

STANDARDS OF WATER QUALITY

Colorado River below Hoover Dam

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

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			Adult cold-water fishery.										
Temperature - °C ΔT[b] - °C	$\Delta T = 0$	S.V. $\leq$ 24 $\Delta T \leq 2$			*								
pH - SU		S.V. 6.5 - 9.0 $\Delta pH \pm 0.5$			*								
Dissolved Oxygen - mg/L		S.V. $\geq$ 5.0			*								
Total Phosphorus (as P) - mg/L	A-Avg. $\leq$ 0.02 S.V. $\leq$ 0.033	A-Avg. $\leq$ 0.05			*	*							
Total Nitrogen (as N) - mg/L	A-Avg. $\leq$ 1.0 S.V. $\leq$ 1.5				*	*							
Nitrate (as N) - mg/L		S.V. $\leq$ 10						*					
Nitrite (as N) - mg/L		S.V. $\leq$ 0.06			*								
Total Ammonia (as N) - mg/L		[c]			*								
Total Suspended Solids - mg/L		S.V. $\leq$ 25			*								
Chloride - mg/L		S.V. $\leq$ 400[d]						*					
Sulfate - mg/L		S.V. $\leq$ 500[d]						*					
Turbidity - NTU		S.V. $\leq$ 10			*								
Color - PCU		S.V. $\leq$ 75						*					
Total Dissolved Solids - mg/L		[d]						*					
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. $\leq$ 50 S.V. $\leq$ 100	S.V. $\leq$ 1,000		*									
Toxic Materials		[f]											

* = The most restrictive beneficial use.
X = Beneficial use.
[a] Refer to NAC 445A.122 and 445A.2142 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 salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.
[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.2152 is hereby amended to read as follows:

445A.2152 The limits of this table apply to the body of water known as Lake Mead, excluding the area covered by NAC 445A.2154, Inner Las Vegas Bay. Lake Mead is located in Clark County.

STANDARDS OF WATER QUALITY

Lake Mead

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			Warm-water fishery.										
Temperature ΔT^b - °C	$\Delta T = 0$	$\Delta T \leq 2$			*								
pH - SU	95% of S.V. samples ≤ 8.8	S.V. 6.5 - 9.0			*								
Dissolved Oxygen - mg/L		S.V. ≥ 5.0[c]			*								
Total Inorganic Nitrogen (as N) - mg/L	95% of S.V. samples ≤ 4.5				*	*							
Nitrate (as N) - mg/L		S.V. ≤ 10						*					
Nitrite (as N) - mg/L		S.V. ≤ 1						*					
Total Ammonia (as N) - mg/L		[d]			*								
Chlorophyll a - µg/L	[e]				*	*							
Total Suspended Solids - mg/L		S.V. ≤ 25			*								
Turbidity - NTU	[f]	S.V. ≤ 25			*								
Color - PCU	[g]							*					
Total Dissolved Solids - mg/L	Flow Weighted A-Avg. Concentration ≤ 723 measured below Hoover Dam[h]	S.V. ≤ 1000						*					
Chloride - mg/L		S.V. ≤ 400[i]						*					
Sulfate - mg/L		S.V. ≤ 500[i]						*					
E. coli - cfu/100 mL[j]		G.M. ≤ 126 S.V. ≤ 410				*							
Fecal Coliform - No./100 mL		≤ 200/400[k]				*							
Toxic Materials		[l]											

* = The most restrictive beneficial use.
X = Beneficial use.

[a] Refer to NAC 445A.122 and 445A.2142 for beneficial use terminology.

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

[c] Applies to the epilimnion when stratified, or average in water column during periods of nonstratification.

[d] The water quality criteria for ammonia are specified in NAC 445A.118.

[e] The requirements for chlorophyll *a* are:

[1] Not more than 1 monthly mean in a calendar year at Station LWLVB 1.85 may exceed 45µg/L. Station LWLVB 1.85 is located at the center of the channel at a distance of 1.85 miles into Las Vegas Bay from the confluence of the Las Vegas Wash with Lake Mead.

[2] The mean for chlorophyll *a* in summer (July 1-September 30) must not exceed 40 µg/L at Station LWLVB 1.85, and the mean for 4 consecutive summer years must not exceed 30 µg/L. The sample must be collected from the center of the channel and must be representative of the top 5 meters of the channel. Station LWLVB 1.85 is located at the center of the channel at a distance of 1.85 miles into Las Vegas Bay from the confluence of the Las Vegas Wash with Lake Mead.

[3] The mean for chlorophyll *a* in the growing season (April 1-September 30) must not exceed 16 µg/L at Station LWLVB 2.7 and 9 µg/L at Station LWLVB 3.5. Station LWLVB 2.7 is located at a distance of 2.7 miles into Las Vegas Bay from the confluence of the Las Vegas Wash with Lake Mead. Station LWLVB 3.5 is located at a distance of 3.5 miles into Las Vegas Bay from the confluence of the Las Vegas Wash with Lake Mead.

[4] The mean for chlorophyll *a* in the growing season (April 1-September 30) must not exceed 5 µg/L in the open water of Boulder Basin, Virgin Basin, Gregg Basin and Pierce Basin. The single value must not exceed 10 µg/L for more than 5 percent of the samples.

[5] Not less than two samples per month must be collected between the months of March and October. During the months when only one sample is available, that value must be used in place of the monthly mean.

[f] Turbidity must not exceed that characteristic of natural conditions by more than 10 NTU.

[g] Color must not exceed that characteristic of natural conditions by more than 10 PCU.

[h] The salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.

[i] The combination of this constituent with other constituents comprising TDS must not result in the violation of the TDS standards for Lake Mead and the Colorado River.

[j] 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.

[k] Based on a minimum of not less than five samples taken over a 30-day period, the fecal coliform bacterial level must not exceed a log mean of 200 per 100 milliliters, nor must more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 milliliters.

[l] The water quality criteria for toxic materials are specified in NAC 445A.1236.

➥ The Commission recognizes that at entrances of tributaries to Lake Mead, localized exceedance of standards may occur.

Sec. 14. NAC 445A.2154 is hereby amended to read as follows:

445A.2154 The limits of this table apply to the body of water known as Inner Las Vegas Bay, consisting of Lake Mead from the confluence of the Las Vegas Wash with Lake Mead to 1.2 miles into Las Vegas Bay. Inner Las Vegas Bay is located in Clark County.

STANDARDS OF WATER QUALITY

Inner Las Vegas Bay

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			
Aquatic Life Species of Concern			Warm-water fishery.										
Temperature ΔT^b - °C	$\Delta T = 0$	$\Delta T \leq 2$			*								
pH - SU	95% of S.V. samples ≤ 8.9	S.V. 6.5 - 9.0			*								
Dissolved Oxygen - mg/L		S.V. ≥ 5.0[c]			*								
Total Inorganic Nitrogen (as N) - mg/L	95% of S.V. samples ≤ 5.3				*								
Nitrate (as N) - mg/L		S.V. ≤ 90			*								
Nitrite (as N) - mg/L		S.V. ≤ 5			*								
Total Ammonia (as N) - mg/L		[d]			*								
Total Suspended Solids - mg/L		S.V. ≤ 25			*								
Turbidity - NTU	[e]	S.V. ≤ 25			*								
Total Dissolved Solids - mg/L[f]		S.V. ≤ 3000	*										
E. coli - cfu/100 mL		A.G.M. ≤ 630					*						
Fecal Coliform No./100mL		≤ 200/400[g]					*						
Toxic Materials		[h]											

* = The most restrictive beneficial use.
X = Beneficial use.
[a] Refer to NAC 445A.122 and 445A.2142 for beneficial use terminology.
[b] Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone.
[c] Applies to the epilimnion when stratified, or average in water column during periods of nonstratification.
[d] The requirement for water quality with regard to the concentration of total ammonia is provided pursuant to the provisions of NAC 445A.118. Data must be collected at Station LWLVB 1.2. Station LWLVB 1.2 is located at the center of the channel at a distance of 1.2 miles into Las Vegas Bay from the confluence of the Las Vegas Wash with Lake Mead.
[e] Turbidity must not exceed that characteristic of natural conditions by more than 10 NTU.
[f] The salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.
[g] Any discharge from a point source into Las Vegas Wash must not exceed a log mean of 200 per 100 milliliters based on a minimum of not less than five samples taken over a 30-day period, nor may more than 10 percent of the total samples taken during any 30-day period exceed 400 per 100 milliliters.
[h] The water quality criteria for toxic materials are specified in NAC 445A.1236.
➥ The Commission recognizes that water quality standards for the inner Las Vegas Bay may be exceeded during storm and flash flood events. During these events, the beneficial use of noncontact recreation and the E. coli water quality criteria do not apply.

Sec. 15. NAC 445A.2161 is hereby amended to read as follows:

445A.2161 The limits of this table apply to the entire body of water known as Lake Las Vegas. Lake Las Vegas is located in Clark County.

STANDARDS OF WATER QUALITY

Lake Las Vegas

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			
Aquatic Life Species of Concern.					Warm-water fish.								
Temperature ΔT^b - °C		$\Delta T \leq 2$			*								
pH - SU		S.V. 6.5 - 9.0			*								
Dissolved Oxygen - mg/L		S.V. $\geq 5.0^c$			*								
Chlorophyll a - µg/L		[d]			*	*							
Turbidity - NTU		S.V. $\leq 10^e$			*								
Total Dissolved Solids - mg/L		S.V. $\leq 2000^f$		*									
Fecal Coliform - No./100ml		S.V. $\leq 1{,}000$		*									
E. coli - cfu/100 mL[g]		G.M. ≤ 126 S.V. ≤ 410				*							
Toxic Materials		[h]											

* = The most restrictive beneficial use.
[a] Refer to NAC 445A.122 and 445A.2142 for beneficial use terminology.

[b] Average temperature in the epilimnion should not exceed 2°C above ambient temperature (i.e., temperature in epilimnion of Lake Mead).
[c] Applies to the epilimnion when stratified, or average in water column during periods of nonstratification.
[d] The seasonal average chlorophyll-a concentration within 0-2.5 m, April through September, should not exceed 15 µg/L.
[e] Turbidity must not exceed that characteristic of natural conditions by more than 10 Nephelometric Turbidity Units (NTU).
[f] The salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.
[g] 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.
[h] The water quality criteria for toxic materials are specified in NAC 445A.1236.
➥ The Commission recognizes that storm waters from Las Vegas Wash may enter Lake Las Vegas during storm and flash-flood events and that localized exceedance of the standards may occur during such events.

Sec. 16. NAC 445A.2162 is hereby amended to read as follows:

445A.2162 The limits of this table apply to the body of water known as the Virgin River at the Arizona-Nevada state line, near Littlefield, Arizona. This segment of the Virgin River is located in Clark County.

STANDARDS OF WATER QUALITY

Virgin River 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			
Aquatic Life Species of Concern													
Temperature - °C ΔT[b] - °C	$\Delta T = 0$	S.V. Nov-Jun ≤ 21 S.V. Jul-Oct ≤ 32 $\Delta T \leq 2$			*								
pH - SU		S.V. 6.5 - 9.0 $\Delta pH \pm 0.5$			*								
Dissolved Oxygen - mg/L		S.V. ≥ 5.0			*								
Total Phosphorus (as P) - mg/L	A-Avg. ≤ 0.06 S.V. ≤ 0.1	A-Avg. ≤ 0.1			*								
Total Nitrogen (as N) - mg/L	S.V. ≤ 2.4 A-Avg. ≤ 3.2				*								
Nitrate (as N) - mg/L		S.V. ≤ 90			*								
Nitrite (as N) - mg/L		S.V. ≤ 5.0			*								
Total Ammonia (as N) - mg/L		[c]			*								
Turbidity - NTU		S.V. ≤ 50			*								
Total Dissolved Solids - mg/L		[d]		*									
Alkalinity (as $CaCO_3$) - mg/L		S.V. ≥ 20			*								
E. coli - cfu/100 mL		A.G.M. ≤ 630					*						
Fecal Coliform - No./100 mL	A.G.M. ≤ 450 S.V. ≤ 1800	S.V. $\leq 1,000$		*									

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
Toxic Materials		[e]											

* = The most restrictive beneficial use.
X = Beneficial use.
[a] Refer to NAC 445A.122 and 445A.2142 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 salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.
[e] The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 17. NAC 445A.2164 is hereby amended to read as follows:

445A.2164 The limits of this table apply to the body of water known as the Virgin River from the Arizona-Nevada state line to Mesquite. This segment of the Virgin River is located in Clark County.

STANDARDS OF WATER QUALITY

Virgin River at Mesquite

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			
Aquatic Life Species of Concern													
Temperature - °C ΔT^b - °C	$\Delta T = 0$	S.V. Nov-Jun $\leq$ 21 S.V. Jul-Oct $\leq$ 32 $\Delta T \leq 2$			*								
pH - SU		S.V. 6.5 - 9.0 $\Delta pH \pm 0.5$			*								
Dissolved Oxygen - mg/L		S.V. $\geq$ 5.0			*								
Total Phosphorus (as P) - mg/L		A-Avg. $\leq$ 0.1			*								
Total Nitrogen (as N) - mg/L	S.V. $\leq$ 0.9 A-Avg. $\leq$ 1.6				*								
Nitrate (as N) - mg/L		S.V. $\leq$ 90			*								
Nitrite (as N) - mg/L		S.V. $\leq$ 5.0			*								
Total Ammonia (as N) - mg/L		[c]			*								
Turbidity - NTU		S.V. $\leq$ 50			*								

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
Total Dissolved Solids - mg/L		[d]		*									
Alkalinity (as $CaCO_3$) - mg/L		S.V. ≥ 20			*								
E. coli - cfu/100 mL		A.G.M. ≤ 630					*						
Fecal Coliform - No./100 mL	A.G.M. ≤ 300 S.V. ≤ 550	S.V. ≤ 1,000		*									
Toxic Materials		[e]											

* = The most restrictive beneficial use.
X = Beneficial use.
[a] Refer to NAC 445A.122 and 445A.2142 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 salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.
[e] The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 18. NAC 445A.2166 is hereby amended to read as follows:

445A.2166 The limits of this table apply to the body of water known as the Virgin River from Mesquite to the river mouth at Lake Mead. This segment of the Virgin River is located in Clark County.

STANDARDS OF WATER QUALITY

Virgin River at Lake Mead

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			
Aquatic Life Species of Concern													
Temperature - °C ΔT^b - °C	$\Delta T = 0$	S.V. Nov-Jun ≤ 21 S.V. Jul-Oct ≤ 32 $\Delta T \leq 2$			*								
pH - SU		S.V. 6.5 - 9.0 $\Delta pH \pm 0.5$			*								
Dissolved Oxygen - mg/L		S.V. ≥ 5.0			*								
Total Phosphorus (as P) - mg/L		A-Avg. ≤ 0.1			*								

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
Total Nitrogen (as N) - mg/L	A-Avg. ≤ 2.9 S.V. ≤ 6.1				*								
Nitrate (as N) - mg/L		S.V. ≤ 90			*								
Nitrite (as N) - mg/L		S.V. ≤ 5.0			*								
Total Ammonia (as N) - mg/L		[c]			*								
Turbidity - NTU		S.V. ≤ 50			*								
Total Dissolved Solids - mg/L		[d]		*									
Alkalinity (as $CaCO_3$) - mg/L		S.V. ≥ 20			*								
E. coli - cfu/100 mL		A.G.M. ≤ 630					*						
Fecal Coliform - No./100 mL	A.G.M. ≤ 625 S.V. ≤ 1250	S.V. ≤ 1,000		*									
Toxic Materials		[e]											

* = The most restrictive beneficial use.
X = Beneficial use.
[a] Refer to NAC 445A.122 and 445A.2142 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 salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.
[e] The water quality criteria for toxic materials are specified in NAC 445A.1236.

Sec. 19. NAC 445A.2168 is hereby amended to read as follows:

445A.2168 The limits of this table apply to the body of water known as the Muddy River from the river source to the Glendale Bridge, except for the length of the river within the exterior borders of the Moapa Indian Reservation. This segment of the Muddy River is located in Clark County.

STANDARDS OF WATER QUALITY

Muddy River at the Glendale 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			

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													
Temperature °C - Source Springs to Warm Springs Bridge Warm Springs Bridge to Glendale Bridge ΔT[b]	 $\Delta T = 0°C$	 19≤T≤32 15≤T≤30 $\Delta T \leq 2°C$			* *								
pH - SU		S.V. 6.5 - 9.0 ΔpH ± 0.5 Max.			*								
Dissolved Oxygen - mg/L		S.V. ≥ 5.0			*								
Total Phosphorus (as P) - mg/L		A-Avg. ≤ 0.1			*	*							
Total Nitrogen (as N) - mg/L	A-Avg. ≤ 1.3 S.V. ≤ 1.4				*								
Nitrate (as N) - mg/L		S.V. ≤ 10						*					
Nitrite (as N) - mg/L		S.V. ≤ 1.0						*					
Total Ammonia (as N) - mg/L		[c]			*								
Turbidity - NTU		S.V. ≤ 50			*								
Color - PCU		S.V. ≤ 75						*					
Total Dissolved Solids - mg/L		[d]						*					
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. ≤ 1,000		*									
Fluoride (as total recoverable) - mg/L		S.V. ≤ 2.6		*									
Toxic Materials		[f]											

* = The most restrictive beneficial use.
X = Beneficial use.

[a] Refer to NAC 445A.122 and 445A.2142 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 salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.

[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. 20. NAC 445A.2172 is hereby amended to read as follows:

445A.2172 The limits of this table apply to the body of water known as the Muddy River from the Glendale Bridge to the Wells Siding Diversion. This segment of the Muddy River is located in Clark County.

STANDARDS OF WATER QUALITY

Muddy River at the Wells Siding 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
Beneficial Uses			X	X	X	X	X		X	X			
Aquatic Life Species of Concern													
Temperature °C - ΔT[b]	ΔT = 0°C	15≤T≤30 ΔT≤2°C			*								
pH - SU		S.V. 6.5 - 9.0 ΔpH ±0.5 Max.			*								
Dissolved Oxygen - mg/L		S.V. ≥5.0			*								
Total Phosphorus (as P) - mg/L		A-Avg. ≤0.3			*	*							
Nitrate (as N) - mg/L		S.V. ≤ 90			*								
Nitrite (as N) - mg/L		S.V. ≤ 5.0			*								
Total Ammonia (as N) - mg/L		[c]			*								
Turbidity - NTU		S.V. ≤ 50			*								
Total Dissolved Solids - mg/L		[d]		*									
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. ≤ 1,000		*									
Fluoride (as total recoverable) - mg/L		S.V. ≤ 2.6		*									
Toxic Materials		[f]											

* = The most restrictive beneficial use.
X = Beneficial use.

[a] Refer to NAC 445A.122 and 445A.2142 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 salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.
[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. 21. NAC 445A.2174 is hereby amended to read as follows:

445A.2174 The limits of this table apply to the body of water known as the Muddy River from the Wells Siding Diversion to the river mouth at Lake Mead. This segment of the Muddy River is located in Clark County.

STANDARDS OF WATER QUALITY

Muddy River at Lake Mead

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			
Aquatic Life Species of Concern													
Temperature °C - ΔT[b]	$\Delta T = 0°C$[b]	T ≤ 32 $\Delta T \leq 2°C$			*								
pH - SU		S.V. 6.5 - 9.0 $\Delta pH \pm 0.5$ Max.			*								
Dissolved Oxygen - mg/L		S.V. ≥ 5.0			*								
Total Phosphorus (as P) - mg/L		A-Avg. ≤ 0.3			*	*							
Total Nitrogen (as N) - mg/L	A-Avg. ≤ 1.3 S.V. ≤ 1.8				*	*							
Nitrate (as N) - mg/L		S.V. ≤ 90			*								
Nitrite (as N) - mg/L		S.V. ≤ 5.0			*								
Total Ammonia (as N) - mg/L		[c]			*								
Turbidity - NTU		S.V. ≤ 50			*								
Total Dissolved Solids - mg/L		[d]		*									
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. ≤ 500 S.V. ≤ 1300	S.V. ≤ 1,000		*									
Boron (as total recoverable) - mg/L		S.V. ≤ 2.0		*									
Fluoride (as total recoverable) - mg/L		S.V. ≤ 3.6		*									
Toxic Materials		[f]											

* = The most restrictive beneficial use.
X = Beneficial use.

[a] Refer to NAC 445A.122 and 445A.2142 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 salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.

[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. 22. NAC 445A.2176 is hereby amended to read as follows:

445A.2176 The limits of this table apply to the body of water known as the Meadow Valley Wash from the bridge above Rox to the Muddy River. The Meadow Valley Wash is located in Clark and Lincoln Counties.

STANDARDS OF WATER QUALITY

Meadow Valley Wash

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			
Aquatic Life Species of Concern													
Temperature - °C ΔT^b - °C	$\Delta T = 0$	S.V. Nov-Jun ≤ 21 S.V. Jul-Oct ≤ 32 $\Delta T \leq 2$			*								
pH - SU		S.V. 6.5 - 9.0 $\Delta pH \pm 0.5$			*								
Dissolved Oxygen - mg/L		S.V. ≥ 5.0			*								
Total Phosphorus (as P) - mg/L		A-Avg. ≤ 0.1			*								
Total Nitrogen (as N) - mg/L	A-Avg. ≤ 2.0 S.V. ≤ 3.3				*								
Nitrate (as N) - mg/L		S.V. ≤ 90			*								
Nitrite (as N) - mg/L		S.V. ≤ 5.0			*								
Total Ammonia (as N) - mg/L		[c]			*								
Turbidity - NTU		S.V. ≤ 50			*								
Total Dissolved Solids - mg/L		[d]		*									
Alkalinity (as $CaCO_3$) - mg/L		S.V. ≥ 20			*								
E. coli - cfu/100 mL		A.G.M. ≤ 630					*						
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.2142 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 salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.

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

Sec. 23. NAC 445A.2178 is hereby amended to read as follows:

445A.2178 The limits of this table apply to the body of water known as the Beaver Dam Wash ~~[above Schroeder Reservoir.]~~ ***within the State of Nevada.*** The Beaver Dam Wash is located in Lincoln County.

STANDARDS OF WATER QUALITY

Beaver Dam Wash

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													
Temperature - °C ΔT^b - °C	 $\Delta T = 0$	S.V. Nov-Apr ≤ 13 S.V. May-Jun ≤ 17 S.V. Jul-Oct ≤ 23 $\Delta T \leq 2$			*								
pH - SU		S.V. 6.5 - 9.0 $\Delta pH \pm 0.5$			*								
Dissolved Oxygen - mg/L		S.V. Nov-May ≥ 6.0 S.V. Jun-Oct ≥ 5.0			*								
Total Phosphorus (as P) - mg/L	A-Avg. ≤ 0.01 S.V. ≤ 0.013	A-Avg. ≤ 0.05			*	*							
Nitrate (as N) - mg/L	S.V. ≤ 0.22	S.V. ≤ 10.0						*					
Nitrite (as N) - mg/L		S.V. ≤ 0.06			*								
Total Ammonia (as N) - mg/L		[c]			*								
Total Suspended Solids - mg/L		S.V. ≤ 25			*								
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		S.V. ≤ 75						*					
Total Dissolved Solids - mg/L		[d]						*					
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. ≤ 1,000		*									
Toxic Materials		[f]											

* = The most restrictive beneficial use.
X = Beneficial use.
[a] Refer to NAC 445A.122 and 445A.2142 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 salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.
[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. 24. NAC 445A.2204 is hereby amended to read as follows:

445A.2204 The limits of this table apply to the entire body of water known as Bowman Reservoir. Bowman Reservoir is located in Clark County.

STANDARDS OF WATER QUALITY

Bowman Reservoir

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													
Temperature - °C ΔT[b]		T ≤ 34 $\Delta T \leq 3°C$			*								
pH - SU		S.V. 6.5 - 9.0			*								
Dissolved Oxygen - mg/L		S.V. ≥ 5.0			*								
Total Phosphorus (as P) - mg/L		S.V. ≤ 0.33			*								
Total Ammonia (as N) - mg/L		[c]			*								
Total Dissolved Solids - mg/L		[d]						*					
E. coli - cfu/100 mL[e]		G.M. ≤ 126 S.V. ≤ 410				*							
Fecal Coliform - No./100 mL		S.V. ≤ 1,000		*									
Fluoride (as total recoverable) - mg/L		S.V. ≤ 2.6		*									
Toxic Materials		[f]											

* = The most restrictive beneficial use.
X = Beneficial use.
[a] Refer to NAC 445A.122 and 445A.2142 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 salinity standards for the Colorado River system are ~~[specified]~~ ***the standards adopted by reference*** in NAC 445A.1233.
[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. 25. NAC 445A.2182 is hereby repealed.

TEXT OF REPEALED SECTION

445A.2182 Colorado Region: Schroeder Reservoir. (NRS 445A.425, 445A.520) The limits of this table apply to the entire body of water known as Schroeder Reservoir. Schroeder Reservoir is located in Lincoln County.

STANDARDS OF WATER QUALITY

Schroeder Reservoir

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			Trout.										
Temperature - °C ΔT[b] - °C		S.V. ≤ 20 $\Delta T \leq 3$			*								
pH - SU		S.V. 6.5 - 9.0			*								
Dissolved Oxygen - mg/L		S.V. ≥ 6.0			*								
Total Phosphorus (as P) - mg/L		S.V. ≤ 0.33			*								
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.2142 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.