

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

**P2014-06
June 27, 2014**

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

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

Petition P2014-06 Changes to the Nevada Administrative Code revising the Nevada water quality regulations for South Fork Humboldt River and South Fork Reservoir located in the Upper Humboldt River Basin

Proposed Revisions:

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

NAC 445A.1432 Humboldt Region: Designated beneficial uses. (NRS 445A.425, 445A.520) 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	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	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	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	X				Warm-water fishery	NAC 445A.1444
Humboldt River at Imlay	From the Comus Gage to Imlay.	X	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	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	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

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				
Mary's 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	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							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							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							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							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							NAC 445A.1512
Tonkin Reservoir	The entire reservoir.	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	From its origin to Squaw Valley Ranch.	X	X	X	X	X	X		X							NAC 445A.1518
Rock Creek below Squaw Valley Ranch	Below Squaw Valley Ranch.	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							NAC 445A.1524

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			
Willow Creek Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X	X				Trout	NAC 445A.1526
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						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						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						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						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						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 the national forest boundary	From its origin to the national forest boundary.	X	X	X	X	X	X		X						NAC 445A.1548
Green Mountain Creek at Corral Creek	From the national forest boundary to its confluence with Corral Creek.	X	X	X	X	X	X	X	X					Trout	NAC 445A.1552
Toyn Creek	From its origin to the national forest boundary.	X	X	X	X	X	X		X						NAC 445A.1554
Reese Creek at Indian Creek	From its origin to its confluence with Indian Creek.	X	X	X	X	X	X		X						NAC 445A.1556
Reese River at State Route 722	From its confluence with Indian Creek to State Route 722 (old U.S. Highway 50).	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						NAC 445A.1564

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				
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							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							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							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															
Aesthetic	Waters of extraordinary ecological or aesthetic value															
Enhance	Enhancement of water quality															
Marsh	Maintenance of a freshwater marsh															

NAC 445A.1464 Humboldt Region: Humboldt River, South Fork at South Fork Reservoir, including and tributaries at above 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 **from its origin to South Fork Reservoir** and its tributaries **from their origin to above** Lee, except for the length of the river 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 **at South Fork Reservoir, including and** tributaries **at above** 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 $\Delta T = 0$			*	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		S.V. ≤ 1000	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.

NAC 445A.1465 Humboldt Region: South Fork Reservoir. (NRS 445A.425, 445A.520)
 The limits of this table apply to the body of water known as South Fork Reservoir. South Fork Reservoir is located in Elko County.

**STANDARDS OF WATER QUALITY
 South Fork 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			Trout														
Temperature - °C ΔT ^b - °C		S.V. ≤ 20 ΔT = 0			*	X											
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*						
Dissolved Oxygen - mg/l		S.V. ≥ 6.0 ^c	X		*	X	X	X			X						
Total Phosphorus (as P) - mg/l		Jun-Sep Avg. ≤ 0.04 ^d			*	*	X	X									
Total Nitrogen (as N) - mg/l		Jun-Sep Avg. ≤ 0.52 ^d			*	*	X	X									
Nitrite (as N) - mg/l		S.V. ≤ 0.06	X		*			X			X						
Total Ammonia (as N) - mg/l		e			*			X									
Chlorophyll-a - µg/l		Jun-Sep Avg. ≤ 15 ^d			*	*	X	X									
Total Suspended Solids - mg/l		S.V. ≤ 25			*												
Turbidity - NTU		S.V. ≤ 10			*												
Color - PCU		S.V. ≤ 75							*								
Secchi Depth - meters		Jun-Sep Avg. ≥ 4.0			X	*	X	X									
Total Dissolved Solids - mg/l		≤ 500 or the S.V. 95th percentile (whichever is less)	X	X					*								
Chloride - mg/l		1-hour Avg. ≤ 230 ^f 96-hour Avg. ≤ 860	X		*				X		X						
Sulfate - mg/l		S.V. ≥ 250							*								
Alkalinity (as CaCO ₃) - mg/l		S.V. ≥ 20			*						X						
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X										
Fecal Coliform - No./100 ml		S.V. ≤ 1000	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 When reservoir is stratified, the dissolved oxygen criterion applies only to the epilimnion.

^d June-September average for the entire reservoir within the upper meter of the water column. These nutrient criteria are considered attained if:

1. The chlorophyll-a criterion is met regardless of the level of total phosphorus or total nitrogen; or
2. If chlorophyll-a data are not available, both the total phosphorus and total nitrogen criteria are met.

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

^f One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.

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 **South Fork Reservoir Lee** to its confluence with the Humboldt River, ~~except for the length of the river within the exterior borders of the South Fork 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 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		S.V. ≤ 1000	X	*			X	X		X					

* = The most restrictive beneficial use.

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^a Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.

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