

# PROPOSED PERMANENT REGULATION OF THE NEVADA STATE ENVIRONMENTAL COMMISSION

**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 2014-05 Changes to the Nevada Administrative Code revising the Nevada water quality regulations for former “Class Waters” located in the Upper Humboldt River Basin**

## Proposed Revisions:

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

### **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 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	445A.1436
Humboldt River at Palisade	From Osino to the Palisade Gage.	X	X	X	X	X	X	X	X	X				Warm-water fishery	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	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	445A.1444
Humboldt River at Imlay	From the Comus Gage to Imlay.	X	X	X	X	X	X	X	X	X				Warm-water fishery	445A.1446
Humboldt River at Woolsey	From Imlay to Woolsey.	X	X	X	X	X	X	X	X	X				Warm-water fishery	445A.1448
Humboldt River at Rodgers Dam	From Woolsey to Rodgers Dam.	X	X	X	X	X	X	X	X	X					445A.1452
Humboldt River at the Humboldt Sink	From Rodgers Dam to the Humboldt Sink.	X	X	X	X	X		X	X						445A.1454







Water Body Name	Segment Description	Beneficial Uses											Aquatic Species of Concern	Water Quality Standard NAC Reference		
		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
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	X					Trout	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	X						445A.1562
San Juan Creek	From its origin to the national forest boundary.	X	X	X	X	X	X		X						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						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	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						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						445A.1574	
Iowa Canyon Reservoir	The entire reservoir.	X	X	X	X	X	X	X	X					Trout	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	445A.1578	
Irrigation	Irrigation															
Livestock	Watering of livestock															
Contact	Recreation involving contact with the water															
Noncontact	Recreation not involving contact with the water															
Municipal	Municipal or domestic supply, or both															
Wildlife	Propagation of Wildlife															
Aquatic	Propagation of aquatic life															
Aesthetic	Water of extraordinary ecological or aesthetic value															
Enhance	Enhancement of water quality															
Marsh	Maintenance of a freshwater marsh															

**NAC 445A.1434 Humboldt Region: Standards for select bodies of water. (NRS 445A.425, 445A.520)** The standards for water quality for select bodies of water within the Humboldt Region are prescribed in NAC 445A.1434 to 445A.1578, inclusive.

**NAC 445A.1456 Humboldt Region: Humboldt River, North Fork and tributaries at the national forest boundary. (NRS 445A.425, 445A.520)** The limits of this table apply to the bodies of water known as the North Fork of the Humboldt River and its tributaries in the Independence Mountain Range from their origin to the national forest boundary. This segment of the North Fork of the Humboldt River and tributaries is located in Elko County.

**STANDARDS OF WATER QUALITY**  
**Humboldt River, North Fork and tributaries at the national forest boundary**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
Beneficial Uses			X	X	X	X	X	X	X	X	X				
Aquatic Life Species of Concern															
Temperature - °C ΔT <sup>b</sup> - °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	X		*	X	X	X		X					
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X							
<i>Nitrate (as N) – mg/l</i>		<i>S.V. ≤ 10</i>	<i>X</i>		<i>X</i>			*		<i>X</i>					
<i>Nitrite (as N) – mg/l</i>		<i>S.V. ≤ 0.06</i>	<i>X</i>		*			<i>X</i>		<i>X</i>					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X							
<i>Total Suspended Solids - mg/l</i>		<i>S.V. ≤ 25</i>			*										
<i>Turbidity - NTU</i>		<i>S.V. ≤ 10</i>			*										
<i>Color - PCU</i>		<i>S.V. ≤ 75</i>						*							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X				*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. ≤ 860<sup>d</sup></i> <i>96-hr Avg. ≤ 230</i>	<i>X</i>		*			<i>X</i>		<i>X</i>					
<i>Sulfate - mg/l</i>		<i>S.V. ≤ 250</i>						*							
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. ≥ 20</i>			*					<i>X</i>					
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.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1458 Humboldt Region: Humboldt River, North Fork at Beaver Creek. (NRS 445A.425, 445A.520)** The limits of this table apply to the bodies of water known as the North Fork of the Humboldt River from the national forest boundary to its confluence with Beaver Creek. This segment of the North Fork of the Humboldt River is located in Elko County.

**STANDARDS OF WATER QUALITY**  
**Humboldt River, North Fork at Beaver Creek**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern			Trout													
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*					
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X			X					
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X								
<i>Nitrate (as N) – mg/l</i>		<i>S.V. ≤ 10</i>	<i>X</i>		<i>X</i>				<i>*</i>		<i>X</i>					
<i>Nitrite (as N) – mg/l</i>		<i>S.V. ≤ 0.06</i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. ≤ 25</i>			<i>*</i>											
<i>Turbidity - NTU</i>		<i>S.V. ≤ 10</i>			<i>*</i>											
<i>Color - PCU</i>		<i>S.V. ≤ 75</i>							<i>*</i>							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. ≤ 860<sup>d</sup></i> <i>96-hr Avg. ≤ 230</i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
<i>Sulfate - mg/l</i>		<i>S.V. ≤ 250</i>							<i>*</i>							
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. ≥ 20</i>			<i>*</i>						<i>X</i>					
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.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1462 Humboldt Region: Humboldt River, North Fork at the Humboldt River. (NRS 445A.425, 445A.520)** The limits of this table apply to the bodies of water known as the North Fork of the Humboldt River from its confluence with Beaver Creek to its confluence with the Humboldt River. This segment of the North Fork of the Humboldt River is located in Elko County.

**STANDARDS OF WATER QUALITY**  
**Humboldt River, North Fork at the Humboldt River**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern																
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 24 ΔT = 0			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*						
Dissolved Oxygen - mg/l		S.V. ≥ 5.0	X		*	X	X	X		X						
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X								
<i>Nitrate (as N) – mg/l</i>		<i>S.V. ≤ 10</i>	<i>X</i>		<i>X</i>			*		<i>X</i>						
<i>Nitrite (as N) – mg/l</i>		<i>S.V. ≤ 1.0</i>	<i>X</i>		*			<i>X</i>		<i>X</i>						
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. ≤ 80</i>			*											
<i>Turbidity - NTU</i>		<i>S.V. ≤ 50</i>			*											
<i>Color - PCU</i>		<i>S.V. ≤ 75</i>							*							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. ≤ 860<sup>d</sup></i> <i>96-hr Avg. ≤ 230</i>	<i>X</i>		*				<i>X</i>		<i>X</i>					
<i>Sulfate - mg/l</i>		<i>S.V. ≤ 250</i>							*							
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. ≥ 20</i>			*						<i>X</i>					
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.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1464 Humboldt Region: Humboldt River, South Fork and tributaries at Lee (NRS 445A.425, 445A.520)** The limits of this table apply to the bodies of water known as the South Fork of the Humboldt River and its tributaries from their origin to Lee, except for the lengths of the river and tributaries within the exterior borders of the South Fork Indian Reservation. This segment of the South Fork of the Humboldt River and tributaries is located in Elko County.

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

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern																
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 20$ $\Delta T = 0$			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*					
Dissolved Oxygen - mg/l		S.V. $\geq 6.0$	X		*	X	X	X			X					
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	X		X			*			X					
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 0.06</math></i>	X		*			X			X					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 25</math></i>			*											
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 10</math></i>			*											
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>							*							
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	X		*				X		X					
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>							*							
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			*						X					
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$				*	X									
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*				X	X		X					

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *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 Lee to its confluence with the Humboldt River. This segment of the South Fork of the Humboldt River is located in Elko County.

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

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern			Trout													
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*					
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X			X					
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. ≤ 10</i>	<i>X</i>		<i>X</i>				*		<i>X</i>					
<i>Nitrite (as N) - mg/l</i>		<i>S.V. ≤ 0.06</i>	<i>X</i>		*				<i>X</i>		<i>X</i>					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. ≤ 25</i>			*											
<i>Turbidity - NTU</i>		<i>S.V. ≤ 10</i>			*											
<i>Color - PCU</i>		<i>S.V. ≤ 75</i>							*							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. ≤ 860<sup>d</sup></i> <i>96-hr Avg. ≤ 230</i>	<i>X</i>		*				<i>X</i>		<i>X</i>					
<i>Sulfate - mg/l</i>		<i>S.V. ≤ 250</i>							*							
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. ≥ 20</i>			*						<i>X</i>					
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.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1482 Humboldt Region: Marys River, upper. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known Marys River from its origin to the point where the River crosses the east line of T. 42 N, R. 59 E., M.D.B. & M. This segment of Marys River is located in Elko County.

**STANDARDS OF WATER QUALITY**  
Marys River, upper

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern																
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 20$ $\Delta T = 0$			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*						
Dissolved Oxygen - mg/l		S.V. $\geq 6.0$	X		*	X	X	X		X						
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	<i>X</i>		<i>X</i>			*		<i>X</i>						
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 0.06</math></i>	<i>X</i>		*			<i>X</i>		<i>X</i>						
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 25</math></i>			*											
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 10</math></i>			*											
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>						*								
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X				*								
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	<i>X</i>		*			<i>X</i>		<i>X</i>						
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>						*								
<i>Alkalinity (as CaCO<sub>3</sub>) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			*					<i>X</i>						
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$				*	X									
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*			X	X		X						

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1482 Humboldt Region: Marys River at the Humboldt River. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known Marys River from the east line of T. 42 N, R. 59 E., M.D.B. & M to its confluence with the Humboldt River. This segment of Marys River is located in Elko County.

**STANDARDS OF WATER QUALITY**  
Marys River at the Humboldt River

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern			Trout													
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*					
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X			X					
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. ≤ 10</i>	<i>X</i>		<i>X</i>				*		<i>X</i>					
<i>Nitrite (as N) - mg/l</i>		<i>S.V. ≤ 0.06</i>	<i>X</i>		*				<i>X</i>		<i>X</i>					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. ≤ 25</i>			*											
<i>Turbidity - NTU</i>		<i>S.V. ≤ 10</i>			*											
<i>Color - PCU</i>		<i>S.V. ≤ 75</i>							*							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. ≤ 860<sup>d</sup></i> <i>96-hr Avg. ≤ 230</i>	<i>X</i>		*				<i>X</i>		<i>X</i>					
<i>Sulfate - mg/l</i>		<i>S.V. ≤ 250</i>							*							
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. ≥ 20</i>			*						<i>X</i>					
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.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1486 Humboldt Region: Tabor Creek. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known Tabor Creek from its origin to the east line of T. 40 N, R. 60 E., M.D.B. & M. Tabor Creek is located in Elko County.

**STANDARDS OF WATER QUALITY  
Tabor Creek**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
Beneficial Uses			X	X	X	X	X	X	X	X	X				
Aquatic Life Species of Concern															
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 20$ $\Delta T = 0$			*	X									
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*					
Dissolved Oxygen - mg/l		S.V. $\geq 6.0$	X		*	X	X	X		X					
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X							
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	X		X			*		X					
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 0.06</math></i>	X		*			X		X					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X							
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 25</math></i>			*										
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 10</math></i>			*										
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>						*							
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X				*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	X		*			X		X					
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>						*							
<i>Alkalinity (as CaCO<sub>3</sub>) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			*					X					
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$					*	X							
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*				X	X		X				

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1488 Humboldt Region: Maggie Creek Tributaries. (NRS 445A.425, 445A.520)**

The limits of this table apply to the bodies of water known as the Maggie Creek Tributaries from their origin to the point where they become Maggie Creek or the point of their confluence with Maggie Creek. The Maggie Creek Tributaries are located in Elko County.

**STANDARDS OF WATER QUALITY  
Maggie Creek Tributaries**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern																
Temperature - °C ΔT <sup>b</sup> - °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	X		*	X	X	X		X						
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. ≤ 10</i>	<i>X</i>		<i>X</i>			*		<i>X</i>						
<i>Nitrite (as N) - mg/l</i>		<i>S.V. ≤ 0.06</i>	<i>X</i>		*			<i>X</i>		<i>X</i>						
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. ≤ 25</i>			*											
<i>Turbidity - NTU</i>		<i>S.V. ≤ 10</i>			*											
<i>Color - PCU</i>		<i>S.V. ≤ 75</i>						*								
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X				*								
<i>Chloride - mg/l</i>		<i>1-hr Avg. ≤ 860<sup>d</sup></i> <i>96-hr Avg. ≤ 230</i>	<i>X</i>		*			<i>X</i>		<i>X</i>						
<i>Sulfate - mg/l</i>		<i>S.V. ≤ 250</i>						*								
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. ≥ 20</i>			*					<i>X</i>						
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.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1492 Humboldt Region: Maggie Creek at Jack Creek. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as the Maggie Creek from where it is formed by the Maggie Creek Tributaries to its confluence with Jack Creek. This segment of Maggie Creek is located in Elko County.

**STANDARDS OF WATER QUALITY**  
**Maggie Creek at Jack Creek**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern			Trout													
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*					
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X			X					
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X								
<i>Nitrate (as N) – mg/l</i>		<i>S.V. ≤ 10</i>	<i>X</i>		<i>X</i>				<i>*</i>		<i>X</i>					
<i>Nitrite (as N) – mg/l</i>		<i>S.V. ≤ 0.06</i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. ≤ 25</i>			<i>*</i>											
<i>Turbidity - NTU</i>		<i>S.V. ≤ 10</i>			<i>*</i>											
<i>Color - PCU</i>		<i>S.V. ≤ 75</i>							<i>*</i>							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. ≤ 860<sup>d</sup></i> <i>96-hr Avg. ≤ 230</i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
<i>Sulfate - mg/l</i>		<i>S.V. ≤ 250</i>							<i>*</i>							
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. ≥ 20</i>			<i>*</i>						<i>X</i>					
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.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1494 Humboldt Region: Maggie Creek at Soap Creek. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as the Maggie Creek from its confluence with Jack Creek to its confluence with Soap Creek. This segment of Maggie Creek is located in Elko County.

**STANDARDS OF WATER QUALITY  
Maggie Creek at Soap Creek**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern			Trout													
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*					
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X			X					
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.33			*	*	X	X								
<i>Nitrate (as N) – mg/l</i>		<i>S.V. ≤ 10</i>	<i>X</i>		<i>X</i>				<i>*</i>		<i>X</i>					
<i>Nitrite (as N) – mg/l</i>		<i>S.V. ≤ 0.06</i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. ≤ 25</i>			<i>*</i>											
<i>Turbidity - NTU</i>		<i>S.V. ≤ 10</i>			<i>*</i>											
<i>Color - PCU</i>		<i>S.V. ≤ 75</i>							<i>*</i>							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. ≤ 860<sup>d</sup></i> <i>96-hr Avg. ≤ 230</i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
<i>Sulfate - mg/l</i>		<i>S.V. ≤ 250</i>							<i>*</i>							
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. ≥ 20</i>			<i>*</i>						<i>X</i>					
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.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1496 Humboldt Region: Maggie Creek at the Humboldt River. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as the Maggie Creek from its confluence with Soap Creek to its confluence with the Humboldt River. This segment of Maggie Creek is located in Elko County.

**STANDARDS OF WATER QUALITY  
Maggie Creek at the Humboldt River**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>														
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
Beneficial Uses			X	X	X	X	X	X	X	X	X						
Aquatic Life Species of Concern																	
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 34$ $\Delta T = 0$			*	X											
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*						
Dissolved Oxygen - mg/l		S.V. $\geq 5.0$	X		*	X	X	X			X						
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.33$			*	*	X	X									
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	<i>X</i>		<i>X</i>				<i>*</i>		<i>X</i>						
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 1.0</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>						
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X									
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 80</math></i>			*												
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 50</math></i>			*												
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>							<i>*</i>								
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X					*								
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>						
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>							<i>*</i>								
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			*						<i>X</i>						
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$					*	X									
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*				X	X		X						

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1498 Humboldt Region: Secret Creek at the national forest boundary. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as Secret Creek from its origin to the national forest boundary. This segment of Secret Creek is located in Elko County.

**STANDARDS OF WATER QUALITY**  
Secret Creek at the national forest boundary

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern																
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 20$ $\Delta T = 0$			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*					
Dissolved Oxygen - mg/l		S.V. $\geq 6.0$	X		*	X	X	X			X					
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	X		X				*		X					
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 0.06</math></i>	X		*				X		X					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 25</math></i>			*											
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 10</math></i>			*											
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>							*							
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	X		*				X		X					
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>							*							
<i>Alkalinity (as CaCO<sub>3</sub>) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			*						X					
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$				*	X									
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*				X	X		X					

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1502 Humboldt Region: Secret Creek at the Humboldt River. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as Secret Creek from the national forest boundary to its confluence with the Humboldt River. This segment of Secret Creek is located in Elko County.

**STANDARDS OF WATER QUALITY**  
**Secret Creek at the Humboldt River**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>														
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
Beneficial Uses			X	X	X	X	X	X	X	X	X						
Aquatic Life Species of Concern			Trout														
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 20$ $\Delta T = 0$			*	X											
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*						
Dissolved Oxygen - mg/l		S.V. $\geq 6.0$	X		*	X	X	X			X						
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X									
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	<i>X</i>		<i>X</i>				<i>*</i>		<i>X</i>						
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 0.06</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>						
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X									
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 25</math></i>			<i>*</i>												
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 10</math></i>			<i>*</i>												
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>							<i>*</i>								
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X					*								
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>						
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>							<i>*</i>								
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			<i>*</i>						<i>X</i>						
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$					*	X									
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*				X	X		X						

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1504 Humboldt Region: Lamoille Creek at the gaging station. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as Lamoille Creek 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. This segment of Lamoille Creek is located in Elko County.

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

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern																
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 20$ $\Delta T = 0$			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*					
Dissolved Oxygen - mg/l		S.V. $\geq 6.0$	X		*	X	X	X			X					
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	<i>X</i>		<i>X</i>				*		<i>X</i>					
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 0.06</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 25</math></i>			<i>*</i>											
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 10</math></i>			<i>*</i>											
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>							*							
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>							*							
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			<i>*</i>						<i>X</i>					
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$					*	X								
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*				X	X		X					

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1506 Humboldt Region: Lamoille Creek at the Humboldt River. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as Lamoille Creek 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. This segment of Lamoille Creek is located in Elko County.

**STANDARDS OF WATER QUALITY  
Lamoille Creek at the Humboldt River**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
Beneficial Uses			X	X	X	X	X	X	X	X	X				
Aquatic Life Species of Concern															
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 24$ $\Delta T = 0$			*	X									
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*				
Dissolved Oxygen - mg/l		S.V. $\geq 5.0$	X		*	X	X	X			X				
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X							
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	<i>X</i>		<i>X</i>				*		<i>X</i>				
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 1.0</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>				
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X							
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 80</math></i>			*										
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 50</math></i>			*										
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>							*						
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X					*						
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>				
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>							*						
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			*						<i>X</i>				
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$					*	X							
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*				X	X		X				

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1508 Humboldt Region: J.D. Ponds. (NRS 445A.425, 445A.520)** The limits of this table apply to the entire body of water known as J.D. Ponds. J.D. Ponds is located in Eureka County.

**STANDARDS OF WATER QUALITY  
J.D. Ponds**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern																
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 34$ $\Delta T = 0$			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*						
Dissolved Oxygen - mg/l		S.V. $\geq 5.0$	X		*	X	X	X		X						
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.33$			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	<i>X</i>		<i>X</i>			<i>*</i>		<i>X</i>						
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 1.0</math></i>	<i>X</i>		<i>*</i>			<i>X</i>		<i>X</i>						
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 80</math></i>			<i>*</i>											
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 50</math></i>			<i>*</i>											
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>						<i>*</i>								
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X				<i>*</i>								
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	<i>X</i>		<i>*</i>			<i>X</i>		<i>X</i>						
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>						<i>*</i>								
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			<i>*</i>					<i>X</i>						
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$					*	X								
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*				X	X		X					

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1512 Humboldt Region: Denay Creek at Tonkin Reservoir. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as Denay Creek from its origin to Tonkin Reservoir. This segment of Denay Creek is located in Eureka County.

**STANDARDS OF WATER QUALITY  
Denay Creek at Tonkin Reservoir**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern																
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 20$ $\Delta T = 0$			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*						
Dissolved Oxygen - mg/l		S.V. $\geq 6.0$	X		*	X	X	X		X						
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	X		X			*		X						
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 0.06</math></i>	X		*			X		X						
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 25</math></i>			*											
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 10</math></i>			*											
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>						*								
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X				*								
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	X		*			X		X						
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>						*								
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			*					X						
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$				*	X									
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*			X	X		X						

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1514 Humboldt Region: Tonkin Reservoir. (NRS 445A.425, 445A.520)** The limits of this table apply to the entire body of water known as Tonkin Reservoir. Tonkin Reservoir is located in Eureka County.

**STANDARDS OF WATER QUALITY  
Tonkin Reservoir**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>												
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh		
Beneficial Uses			X	X	X	X	X	X	X	X	X				
Aquatic Life Species of Concern															
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 20$ $\Delta T = 0$			*	X									
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*					
Dissolved Oxygen - mg/l		S.V. $\geq 6.0$	X		*	X	X	X		X					
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X							
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	X		X			*		X					
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 0.06</math></i>	X		*			X		X					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X							
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 25</math></i>			*										
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 10</math></i>			*										
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>						*							
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X				*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	X		*			X		X					
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>						*							
<i>Alkalinity (as CaCO<sub>3</sub>) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			*					X					
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$				*	X								
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*			X	X		X					

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1516 Humboldt Region: Denay Creek below Tonkin Reservoir. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as Denay Creek below Tonkin Reservoir. This segment of Denay Creek is located in Eureka County.

**STANDARDS OF WATER QUALITY  
Denay Creek below Tonkin Reservoir**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>														
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
Beneficial Uses			X	X	X	X	X	X	X	X	X						
Aquatic Life Species of Concern																	
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 24$ $\Delta T = 0$			*	X											
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*						
Dissolved Oxygen - mg/l		S.V. $\geq 5.0$	X		*	X	X	X			X						
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X									
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	<i>X</i>		<i>X</i>				<i>*</i>		<i>X</i>						
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 1.0</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>						
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X									
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 80</math></i>			*												
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 50</math></i>			*												
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>							<i>*</i>								
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X					*								
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>						
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>							<i>*</i>								
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			*						<i>X</i>						
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$					*	X									
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*				X	X		X						

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1542 Humboldt Region: Huntington Creek at the White Pine-Elko county line. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as Huntington Creek from its origin to the White Pine-Elko county line. This segment of Huntington Creek is located in White Pine County.

**STANDARDS OF WATER QUALITY**  
**Huntington Creek at the White Pine-Elko county line**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern																
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 20$ $\Delta T = 0$			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*					
Dissolved Oxygen - mg/l		S.V. $\geq 6.0$	X		*	X	X	X			X					
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	X		X				*		X					
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 0.06</math></i>	X		*				X		X					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 25</math></i>			*											
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 10</math></i>			*											
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>							*							
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	X		*				X		X					
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>							*							
<i>Alkalinity (as CaCO<sub>3</sub>) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			*						X					
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$					*	X								
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*				X	X		X					

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1544 Humboldt Region: Huntington Creek at Smith Creek. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as Huntington Creek from the White Pine-Elko county line to its confluence with Smith Creek. This segment of Huntington Creek is located in Elko County.

**STANDARDS OF WATER QUALITY**  
**Huntington Creek at Smith Creek**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern			Trout													
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*					
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X			X					
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X								
<i>Nitrate (as N) – mg/l</i>		<i>S.V. ≤ 10</i>	<i>X</i>		<i>X</i>				<i>*</i>		<i>X</i>					
<i>Nitrite (as N) – mg/l</i>		<i>S.V. ≤ 0.06</i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. ≤ 25</i>			<i>*</i>											
<i>Turbidity - NTU</i>		<i>S.V. ≤ 10</i>			<i>*</i>											
<i>Color - PCU</i>		<i>S.V. ≤ 75</i>							<i>*</i>							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. ≤ 860<sup>d</sup></i> <i>96-hr Avg. ≤ 230</i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
<i>Sulfate - mg/l</i>		<i>S.V. ≤ 250</i>							<i>*</i>							
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. ≥ 20</i>			<i>*</i>						<i>X</i>					
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.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1546 Humboldt Region: Huntington Creek at the South Fork of the Humboldt River. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as Huntington Creek from its confluence with Smith Creek to its confluence with the South Fork of the Humboldt River. This segment of Huntington Creek is located in Elko County.

**STANDARDS OF WATER QUALITY**  
**Huntington Creek at the South Fork of the Humboldt River**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>														
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
Beneficial Uses			X	X	X	X	X	X	X	X	X						
Aquatic Life Species of Concern																	
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 24 ΔT = 0			*	X											
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*						
Dissolved Oxygen - mg/l		S.V. ≥ 5.0	X		*	X	X	X			X						
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X									
<i>Nitrate (as N) - mg/l</i>		<i>S.V. ≤ 10</i>	<i>X</i>		<i>X</i>				<i>*</i>		<i>X</i>						
<i>Nitrite (as N) - mg/l</i>		<i>S.V. ≤ 1.0</i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>						
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X									
<i>Total Suspended Solids - mg/l</i>		<i>S.V. ≤ 80</i>			*												
<i>Turbidity - NTU</i>		<i>S.V. ≤ 50</i>			*												
<i>Color - PCU</i>		<i>S.V. ≤ 75</i>							<i>*</i>								
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*								
<i>Chloride - mg/l</i>		<i>1-hr Avg. ≤ 860<sup>d</sup></i> <i>96-hr Avg. ≤ 230</i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>						
<i>Sulfate - mg/l</i>		<i>S.V. ≤ 250</i>							<i>*</i>								
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. ≥ 20</i>			*						<i>X</i>						
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.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1548 Humboldt Region: Green Mountain Creek at ~~the national forest boundary~~ Toyn Creek.** (NRS 445A.425, 445A.520) The limits of this table apply to the body of water known as Green Mountain Creek from its origin to ~~the national forest boundary~~ its confluence with Toyn Creek. ~~This segment of~~ Green Mountain Creek is located in Elko County.

**STANDARDS OF WATER QUALITY**  
Green Mountain Creek at ~~the national forest boundary~~ Toyn Creek

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>														
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh				
Beneficial Uses			X	X	X	X	X	X	X	X	X						
Aquatic Life Species of Concern																	
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 20$ $\Delta T = 0$			*	X											
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*						
Dissolved Oxygen - mg/l		S.V. $\geq 6.0$	X		*	X	X	X			X						
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X									
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	<i>X</i>		<i>X</i>				<i>*</i>		<i>X</i>						
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 0.06</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>						
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X									
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 25</math></i>			*												
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 10</math></i>			*												
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>							<i>*</i>								
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X					<i>*</i>								
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>						
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>							<i>*</i>								
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			<i>*</i>						<i>X</i>						
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$					*	X									
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*				X	X		X						

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1554 Humboldt Region: Toyn Creek at Green Mountain Creek. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as Toyn Creek from its origin to **the national forest boundary its confluence with Green Mountain Creek.** *This segment of Toyn Creek is located in Elko County.*

**STANDARDS OF WATER QUALITY**  
Toyn Creek *at Green Mountain Creek*

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern																
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*					
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X			X					
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. ≤ 10</i>	<i>X</i>		<i>X</i>				*		<i>X</i>					
<i>Nitrite (as N) - mg/l</i>		<i>S.V. ≤ 0.06</i>	<i>X</i>		*				<i>X</i>		<i>X</i>					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. ≤ 25</i>			*											
<i>Turbidity - NTU</i>		<i>S.V. ≤ 10</i>			*											
<i>Color - PCU</i>		<i>S.V. ≤ 75</i>							*							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. ≤ 860<sup>d</sup></i> <i>96-hr Avg. ≤ 230</i>	<i>X</i>		*				<i>X</i>		<i>X</i>					
<i>Sulfate - mg/l</i>		<i>S.V. ≤ 250</i>							*							
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. ≥ 20</i>			*						<i>X</i>					
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.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.15525 Humboldt Region: Green Mountain Toyn Creek at Corral Creek.**  
**(NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as **Green Mountain Toyn** Creek from **the national forest boundary from its confluence with Green Mountain Creek** to its confluence with Corral Creek. This segment of **Green Mountain Toyn** Creek is located in Elko County.

**STANDARDS OF WATER QUALITY**  
**Green Mountain Toyn** Creek at Corral Creek

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern			Trout													
Temperature - °C $\Delta T^b$ - °C		S.V. $\leq 20$ $\Delta T = 0$			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*			X	X	*					
Dissolved Oxygen - mg/l		S.V. $\geq 6.0$	X		*	X	X	X			X					
Total Phosphorus (as P) - mg/l		S.V. $\leq 0.10$			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. <math>\leq 10</math></i>	<i>X</i>		<i>X</i>			*			<i>X</i>					
<i>Nitrite (as N) - mg/l</i>		<i>S.V. <math>\leq 0.06</math></i>	<i>X</i>		<i>*</i>			<i>X</i>			<i>X</i>					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. <math>\leq 25</math></i>			<i>*</i>											
<i>Turbidity - NTU</i>		<i>S.V. <math>\leq 10</math></i>			<i>*</i>											
<i>Color - PCU</i>		<i>S.V. <math>\leq 75</math></i>						*								
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X				*								
<i>Chloride - mg/l</i>		<i>1-hr Avg. <math>\leq 860^d</math></i> <i>96-hr Avg. <math>\leq 230</math></i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
<i>Sulfate - mg/l</i>		<i>S.V. <math>\leq 250</math></i>						*								
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. <math>\geq 20</math></i>			<i>*</i>						<i>X</i>					
E. coli - No./100 ml		A.G.M. $\leq 126$ S.V. $\leq 410$					*	X								
Fecal Coliform - No./100 ml		S.V. $\leq 1000$	X	*				X	X		X					

\* = The most restrictive beneficial use.

X = Beneficial use.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*

**NAC 445A.1578 Humboldt Region: Starr Creek. (NRS 445A.425, 445A.520)** The limits of this table apply to the body of water known as Starr Creek from the confluence of Ackler and Herder Creeks to the Humboldt River. Starr Creek is located in Elko County.

**STANDARDS OF WATER QUALITY  
Starr Creek**

PARAMETER	REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Beneficial Use <sup>a</sup>													
			Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh			
Beneficial Uses			X	X	X	X	X	X	X	X	X					
Aquatic Life Species of Concern			Trout													
Temperature - °C ΔT <sup>b</sup> - °C		S.V. ≤ 20 ΔT = 0			*	X										
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*						
Dissolved Oxygen - mg/l		S.V. ≥ 6.0	X		*	X	X	X		X						
Total Phosphorus (as P) - mg/l		S.V. ≤ 0.10			*	*	X	X								
<i>Nitrate (as N) - mg/l</i>		<i>S.V. ≤ 10</i>	<i>X</i>		<i>X</i>				*		<i>X</i>					
<i>Nitrite (as N) - mg/l</i>		<i>S.V. ≤ 0.06</i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
Total Ammonia (as N) - mg/l		<sup>c</sup>			*			X								
<i>Total Suspended Solids - mg/l</i>		<i>S.V. ≤ 25</i>			*											
<i>Turbidity - NTU</i>		<i>S.V. ≤ 10</i>			*											
<i>Color - PCU</i>		<i>S.V. ≤ 75</i>							*							
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th percentile (whichever is less).	X	X					*							
<i>Chloride - mg/l</i>		<i>1-hr Avg. ≤ 860<sup>d</sup></i> <i>96-hr Avg. ≤ 230</i>	<i>X</i>		<i>*</i>				<i>X</i>		<i>X</i>					
<i>Sulfate - mg/l</i>		<i>S.V. ≤ 250</i>							*							
<i>Alkalinity (as CaCO3) - mg/l</i>		<i>S.V. ≥ 20</i>			*						<i>X</i>					
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.

<sup>a</sup> Refer to NAC 445A.122 and 445A.1252 for beneficial use terminology.

<sup>b</sup> Maximum allowable increase in temperature above water temperature at the boundary of an approved mixing zone, but the increase must not cause a violation of the single value standard.

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

<sup>d</sup> *One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.*