#### ADOPTED REGULATION OF THE

#### STATE ENVIRONMENTAL COMMISSION

#### LCB File No. R102-14

Effective October 24, 2014

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

AUTHORITY: §§1-28, NRS 445A.425 and 445A.520.

A REGULATION relating to water quality; revising certain water quality standards for the Humboldt Region; and providing other matters properly relating thereto.

### **Legislative Counsel's Digest:**

The State Environmental Commission is required to establish water quality standards to protect and ensure the continued beneficial use of each stream segment and other body of surface water in this State. (NRS 445A.520) **Section 1** of this regulation revises the descriptions of certain segments of Green Mountain Creek and Toyn Creek. **Sections 2-28** of this regulation revise various water quality standards for the Humboldt Region, including standards relating to nitrates, chlorides, sulfates, alkalinity, turbidity, color and suspended solids.

**Section 1.** 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:

					В	enet	îcia	l Us	es				Aquatic Life	Water Quality
Water Body Name	Segment Description					ct							Species of	Standard NAC
		ivestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	wildlite	Aesthetic	Enhance	Marsh	Concern	Reference
Humboldt River near	From the upstream source	_	=	⋖	_	_	_	_	>	⋖	Н	_	Warm-water	
Tumbolat River hear	Trom the apstream source	X	X	X	X	X	X	X	X					NAC 445A.1436
Osino	of the main stem to Osino.												fishery	

					В	enet	icia	l Us	es				Aquatic Life	Water Quality
Water Body Name	Segment Description	cK	on	0	1	ntact	pal	ıal	ə	tic	e.		Species of	Standard NAC
		Livestock	ırrıgatıon	Aquatic	Contact	Noncontact	Municipal	Industrial	wildlife	Aesthetic	Enhance	Marsh	Concern	Reference
Humboldt River at	From Osino to the	Х	Х	Х	X	Х	X	X	X				Warm-water	NAC 445A.1438
Palisade	Palisade Gage.												fishery	
Humboldt River at	From the Palisade Gage to	Х	Х	Х	Х	Х	Х	Х	X				Warm-water	NAC 445A.1442
Battle Mountain	the Battle Mountain Gage.	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ				fishery	NAC 443A.1442
	From the Battle Mountain													
Humboldt River at	Gage to where State	X	X	X	X	X	X	X	X				Warm-water	NAC 445A.1444
State Highway 789	Highway 789 crosses the	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ				fishery	NAC 443A.1444
	Humboldt River.													
Humboldt River at	From the Comus Gage to	X	X	X	X	Х	X	Х	X				Warm-water	NAC 445A.1446
Imlay	Imlay.	Λ	Λ	Λ	Λ	Λ	Λ	Λ	Λ				fishery	NAC 443A.1440
Humboldt River at	From Indon to Woolson	X	v	X	X	X	v	X	X				Warm-water	NIA C 445 A 1440
Woolsey	From Imlay to Woolsey.	Λ	X	Λ	Λ	Λ	X	Λ	Λ				fishery	NAC 445A.1448
Humboldt River at	From Woolsey to Rodgers	X	Х	Х	X	Х	Х	Х	X					NAC 445A.1452
Rodgers Dam	Dam.	11	11	11	11	11	11	21	21					1,110 11311.1132
Humboldt River at	From Rodgers Dam to the	Х	Х	Х	X	Х		Х	X					NAC 445A.1454
the Humboldt Sink	Humboldt Sink.	11	11	11	71	11		21	21					
The Humboldt Sink	The entire sink.	X	X	X		X		X	X					NAC 445A.1455
Humboldt River,	From their origin in the													
North Fork and	Independence Mountain													
tributaries at the		X	X	X	X	X	X	X	X					NAC 445A.1456
national forest	Range to the national													
boundary	forest boundary.													
Humboldt River,	From the national forest													
North Fork at Beaver	boundary to its confluence	X	X	X	X	X	X	X	X				Trout	NAC 445A.1458
Creek	with Beaver Creek.													

					В	enet	icia	l Us	es				Aquatic Life	Water Quality
Water Body Name	Segment Description	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	Species of Concern	Standard NAC Reference
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 and tributaries at Lee	From their origin to 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
Humboldt River, South Fork at the Humboldt River	From Lee to its confluence with the Humboldt River, except for the length of the river within the exterior borders of the South Fork Indian Reservation.	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					NAC 445A.1472

					В	enet	icia	l Us	es				Aquatic Life	Water Quality
Water Body Name	Segment Description	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	Species of Concern	Standard NAC Reference
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						NAC 445A.1474
Little Humboldt River, South Fork at the Elko-Humboldt county line	From its origin to the Elko-Humboldt county line.	Х	X	X	X	X	X		X					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	Х					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

					В	enet	icia	l Us	es				Aquatic Life	Water Quality
Water Body Name	Segment Description	Livestock	ırrıgation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	Species of Concern	Standard NAC Reference
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	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

					В	enet	îcia	l Us	es				Aquatic Life	Water Quality
Water Body Name	Segment Description	Livestock	ırrıgatıon	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	Species of Concern	Standard NAC Reference
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.	Х	X	X	Х	X	Х	X	Х					NAC 445A.1512
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	Х	X	X	Х	Х	Х					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	Х	X	X	Х	Х	Х					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

					В	enet	icia	l Us	es				Aquatic Life	Water Quality
Water Body Name	Segment Description	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	Species of Concern	Standard NAC Reference
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					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

					В	enet	ficia	l Us	es				Aquatic Life	Water Quality
Water Body Name	Segment Description	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsn	Species of Concern	Standard NAC Reference
Huntington Creek at	From its origin to the													
the White Pine-Elko	White Pine-Elko county	X	X	X	X	X	X	X	X					NAC 445A.1542
county line	line.													
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
	From its origin to <a href="#">[the</a> <a href="#">national forest boundary.]</a> <a href="#">its confluence with Toyn</a> <a href="#">Creek.</a>	X	X	X	X	X	X	X	X					NAC 445A.1548
Green Mountain  Creek  Toyn Creek at  Corral Creek	From [the national forest boundary] its confluence with Green Mountain Creek to its confluence with Corral Creek.	X	X	X	X	X	X	X	Х				Trout	NAC 445A.1552
	From its origin to the national forest boundary.] its confluence with Green Mountain Creek.	X	X	X	X	X	X	X	X					NAC 445A.1554

					В	enet	icia	l Us	es				Aquatic Life	Water Quality
Water Body Name	Segment Description	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsn	Species of Concern	Standard NAC Reference
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					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	Х	Х	Х					NAC 445A.1562
San Juan Creek	From its origin to the national forest boundary.	X	X	X	X	X	X		X					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					NAC 445A.1566

					В	ene	ficia	l Us	es				Aquatic Life	Water Quality
Water Body Name	Segment Description	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	Species of Concern	Standard NAC Reference
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				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	Х	X	X	X	х		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													

				Ben	efici	al U	ses				Aquatic Life	Water Quality
Water Body Name	Segment Description	ck		tact	oal	al	0	21	a)		Species of	Standard NAC
		Livestock Irrigation	Aquatic	Contact	Municipal	Industrial	wildlife	Aesthetic	Enhance	Marsn	Concern	Reference
Livestock	Watering of livestock											
Contact	Recreation involving contact	et with th	he w	ater								
Noncontact	Recreation not involving co	ntact wi	th th	e wate	er							
Industrial	Industrial supply											
Municipal	Municipal or domestic supp	oly, or bo	oth									
Wildlife	Propagation of wildlife											
Aquatic	Propagation of aquatic life											
Aesthetic	Waters of extraordinary eco	ological	or ae	sthetic	c val	ue						
Enhance	Enhancement of water qual	ity										
Marsh	Maintenance of a freshwate	r marsh										

### **Sec. 2.** NAC 445A.1456 is hereby amended to read as follows:

445A.1456 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

	REQUIREMENTS					]	Bene	eficia	l Us	se <sup>a</sup>			
	TO MAINTAIN	WATER QUALITY		1	1	1	T		1	1	1	1	+
PARAMETER		STANDARDS FOR					ب						
	EXISTING HIGHER	BENEFICIAL USES	ock	101	21	51	ntac	ıpal	rıal	1e	etic	ce	
	QUALITY		ıvestock	rrigation	quatic	ontact	oncon	/Junicipal	ndustrial	/ıldlıte	esthetic	nhance	Marsh
			Т	П	A	2	Z	N	П	>	А	I	$\geq$

		WATER QUALITY				E	sene	ficia	l Us	eª			
PARAMETER	TO MAINTAIN	STANDARDS FOR					<del>1.</del>						
	EXISTING HIGHER  QUALITY	BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses	1		X	X	X	X		X		X	7		
Aquatic Life Species of	f Concern			I	I		l			I		1	
Temperature - °C		S.V. ≤ 20			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				Λ							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 6.0	X		*	X	X	X		X			
mg/l		2002											
Total Phosphorus		S.V. ≤ 0.10			*	*	X	X					
(as P) - mg/l													
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>0.06</i>	X		*			X		X			
Total Ammonia		c			*			X					
(as N) - mg/l													
Total Suspended		<i>S.V.</i> ≤ 25			*								
Solids - mg/l													
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved		percentile	X	X				*					
Solids - mg/l		(whichever is		_									
		less).											
Chloride - mg/l		1-hr Avg.≤ 860 <sup>4</sup> 96-hr Avg.≤ 230	X		*			X		X			
Sulfate - mg/l		90-HF AVg. ≤ 250 S.V. ≤ 250						*					

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Alkalinity (as CaCO <sub>3</sub> ) - 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. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.

### **Sec. 3.** NAC 445A.1458 is hereby amended to read as follows:

445A.1458 The limits of this table apply to the body 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	WATER QUALITY	Beneficial Use <sup>a</sup>

	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	ck	u			itact	bal	al	1)	10	o	
	QUALITY		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	≺ X	X		X	X	× X	A	Ħ	Ž.
Aquatic Life Species of	of Concern		Tro	ut.									
Temperature - °C		S.V.≤20											
ΔT <sup>b</sup> - °C		$\Delta T = 0$			*	X							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V. ≥ 6.0	X		*	X	X	X		X			
mg/l		3. ₹.≥ 0.0	Λ			A	Λ	Λ		Λ			
Total Phosphorus		S.V.≤0.10			*	*	X	X					
(as P) - mg/l		5. V. <u>5</u> 0.10					71	21					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		S.V. ≤ 0.06	X		*			X		X			
Total Ammonia		c			*			X					
(as N) - mg/l								Λ					
Total Suspended		<i>S.V.</i> ≤ 25			*								
Solids - mg/l		<i>5.7.</i> ≟25											
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved		percentile	X	X				*					
Solids - mg/l		(whichever is	Λ	Λ									
		less).											
Chloride - mg/l		1-hr Avg.≤860 <sup>d</sup>	X		*			X		X			
Cinoriae - nig/i		96-hr Avg.≤230	A					A		Λ			
Sulfate - mg/l		S.V.≤250						*					
Alkalinity		S. V. ≥ 20			*					X			
(as CaCO <sub>3</sub> ) - mg/l		Ø•7•≥ 20											

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	ie <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER	STANDARDS FOR BENEFICIAL USES	tock	non	10	ct	ontact	npal	mal	ıte	etic	ıce	l
	QUALITY		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X						
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.

### **Sec. 4.** NAC 445A.1462 is hereby amended to read as follows:

445A.1462 The limits of this table apply to the body 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

	REQUIREMENTS	WATER QUALITY				В	enef	ĭcia	l Us	se <sup>a</sup>				
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY		Livestock	ırrıgatıon	Aquatic	Contact	Noncontact	Municipai	ındustriai	wildlife	Aesmenc	Ennance	Marsh	
Beneficial Uses			X	X	X	X	X	X	X	X				

	REQUIREMENTS	WATER QUALITY				В	enef	icia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	LIVESTOCK	ırrıgation	Aquatic	Contact	Noncontact	Municipai	ındustriai	wildlife	Аеѕтепс	Еппапсе	Marsh
Aquatic Life Species of	of Concern												
Temperature - °C		$S.V. \leq 24$			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				Λ							
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. \le 0.10			*	*	X	X					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		S.V.≤ 1.0	X		*			X		X			
Total Ammonia (as N) - mg/l		с			*			X					
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. $\leq$ 500 or the 95th percentile (whichever is less).	X	X				*					
Chloride - mg/l		1-hr Avg. ≤ 860 <sup>d</sup> 96-hr Avg. ≤ 230	X		*			X		X			
Sulfate - mg/l		S.V. ≤ 250						*					
Alkalinity (as CaCO <sub>3</sub> ) - mg/l		S.V.≥ 20			*					X			

	REQUIREMENTS	WATER QUALITY				В	enei	ficia	l Us	se <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	LIVESTOCK	итпдацоп	Адиапс	Contact	Noncontact	ıvıunıcıpaı	ındustriai	wildlife	Aesmenc	Еппапсе	Marsh
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410			7	*	X	I			7		I
Fecal Coliform - No./100 ml		S.V. \( \le 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.

### **Sec. 5.** NAC 445A.1464 is hereby amended to read as follows:

445A.1464 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 length of the river and the lengths of its 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

	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock Irrigation Aquatic Contact Noncontact Municipal Industrial Wildlife Aesthetic Enhance

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR		Irrigation				Municipal			Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			
Aquatic Life Species of	of Concern			I	I	I	1			I		I	
Temperature - °C		$S.V. \leq 20$			*	v							
ΔT <sup>b</sup> - °C		$\Delta T = 0$			•	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					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		S.V. ≤ 0.06	X		*			X		X			
Total Ammonia (as N) - mg/l		c			*			X					
Total Suspended Solids - mg/l		S.V. ≤ 25			*								
Turbidity – NTU		S.V. ≤ 10			*								
Color – PCU		<i>S.V.</i> ≤ 75						*					
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th  percentile  (whichever is less).	X	X				*					
Chloride - mg/l		$1-hr Avg. \le 860^d$ $96-hr Avg. \le 230$	X		*			X		X			
Sulfate - mg/l		S. V. ≤ 250						*					

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Alkalinity (as CaCO <sub>3</sub> ) - 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. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.

### **Sec. 6.** NAC 445A.1466 is hereby amended to read as follows:

445A.1466 The limits of this table apply to the body of water known as the South Fork of the Humboldt River from Lee to its confluence with the Humboldt River, except for the length of the river within the exterior borders of the South Fork Indian Reservation. This segment of the South Fork of the Humboldt River is located in Elko County.

## STANDARDS OF WATER QUALITY

## Humboldt River, South Fork at the Humboldt River

PARAMETER	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>

	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	X	ų.			tact	al	al		၁	0	
	QUALITY		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X Y	රි X		Ź X		≨ X	Α€	En	M
Aquatic Life Species o	of Concern		Tro										
	of Concern		110	uı.					1				
Temperature - °C		$S.V. \leq 20$			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$											
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 6.0	X		*	X	X	X		X			
mg/l		S. V. ≥ 0.0	^			Λ	Λ	Λ		Λ			
Total Phosphorus		S.V. < 0.10			*	*	X	X					
(as P) - mg/l		$S.V. \le 0.10$					Λ	Λ					
Nitrate (as N) - mg/l		<i>S.V.</i> ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		S. V. ≤ 0.06	X		*			X		X			
Total Ammonia		c			*			X					
(as N) - mg/l								Λ					
Total Suspended		S. V. ≤ 25			*								
Solids - mg/l		5.7. ≤ 25											
Turbidity – NTU		<i>S.V.</i> ≤ <i>10</i>			*								
Color – PCU		<i>S.V.</i> ≤ 75						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved		percentile	37	37				*					
Solids - mg/l		(whichever is	X	X				*					
		less).											
		1-hr Avg. ≤ 860 <sup>d</sup>											
Chloride - mg/l		96-hr Avg. ≤ 230	X		*			X		X			
Sulfate - mg/l		S. V. ≤ 250						*					
Alkalinity		S.V.≥ 20			*					X			
(as CaCO <sub>3</sub> ) - mg/l		S. F. ≤ 2U								<b>A</b>			

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  OUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	atic	tact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	ance	sh
E. coli - No./100 ml	QUALITY	A.G.M. ≤ 126 S.V. ≤ 410	Live	Irrig	Aquatic	* Contact	Non X	unW	npul	Wild	Aest	Enhance	Marsh
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 7.** NAC 445A.1482 is hereby amended to read as follows:

445A.1482 The limits of this table apply to the body of water known as 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

	REQUIREMENTS	WATER QUALITY				Е	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Aquatic Life Species of	of Concern												
Temperature - °C		S.V.≤20			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				71							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 6.0	X		*	X	X	X		X			
mg/l		3. v.≥ 0.0	Λ			Λ	Λ	Λ		Λ			
Total Phosphorus		S.V. \( \le 0.10			*	*	X	X					
(as P) - mg/l		5.7 0.10					71	1					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		$S.V. \leq 0.06$	X		*			X		X			
Total Ammonia		c			*			X					
(as N) - mg/l													
Total Suspended		S.V. ≤ 25			*								
Solids - mg/l													
Turbidity – NTU		S.V. ≤ 10			*								
Color – PCU		<i>S.V.</i> ≤ 75						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved		percentile	X	X				*					
Solids - mg/l		(whichever is	Λ	Λ									
		less).											
Chloride - mg/l		$1-hr\ Avg. \le 860^d$	X		*			X		X			
mg/t		96-hr Avg. ≤ 230								2.			
Sulfate - mg/l		S.V. ≤ 250						*					
Alkalinity		S.V.≥ 20			*					X			
(as CaCO <sub>3</sub> ) - mg/l													

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	ie <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER	STANDARDS FOR BENEFICIAL USES	tock	non	10	ct	ontact	npal	mal	ıte	etic	ıce	l
	QUALITY		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X						
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.

### **Sec. 8.** NAC 445A.1484 is hereby amended to read as follows:

445A.1484 The limits of this table apply to the body of water known as 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

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal		Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR			Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Aquatic Life Species of	of Concern		Tro	ut.									
Temperature - °C		S.V.≤20			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				71							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 6.0	Х		*	X	Х	X		X			
mg/l		5. <b>v</b> . <u>~</u> 0.0	Λ			Λ	1	1		1			
Total Phosphorus		S.V. ≤ 0.10			*	*	X	X					
(as P) - mg/l													
Nitrate (as N) - mg/l		<i>S.V.</i> ≤ <i>10</i>	X		X			*		X			
Nitrite (as N) - mg/l		$S.V. \leq 0.06$	X		*			X		X			
Total Ammonia		c			*			Х					
(as N) - mg/l													
Total Suspended		S.V. ≤ 25			*								
Solids - mg/l													
Turbidity – NTU		S.V. ≤ 10			*								
Color – PCU		S.V. ≤ 75						*					
		$S.V. \le 500$ or the											
Total Dissolved		95th percentile	X	X				*					
Solids - mg/l		(whichever is	21	11									
		less).											
Chloride - mg/l		$1-hr\ Avg. \le 860^d$	X		*			X		X			
		96-hr Avg. ≤ 230											
Sulfate - mg/l		S.V. ≤ 250						*					
Alkalinity		S.V. ≥ 20			*					X			
(as CaCO <sub>3</sub> ) - mg/l													

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	ontact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	rsh
E. coli - No./100 ml	QOLLITT	A.G.M. ≤ 126 S.V. ≤ 410	LIV	guut	Aqu	* Con	X X	mW	ıpuI	WII	Aes	Enh	Marsh
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

\* = The most restrictive beneficial use.

#### X = Beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 9.** NAC 445A.1486 is hereby amended to read as follows:
- 445A.1486 The limits of this table apply to the body of water known as 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**

	REQUIREMENTS					E	Bene:	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Aquatic Life Species of	of Concern												
Temperature - °C		S.V.≤20			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				71							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥6.0	X		*	X	X	Х		Х			
mg/l		5. V. <u>~</u> 0.0	Λ			74	71	1		Λ			
Total Phosphorus		S.V.≤0.10			*	*	X	Х					
(as P) - mg/l		21112											
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>0.06</i>	X		*			X		X			
Total Ammonia		c			*			X					
(as N) - mg/l													
Total Suspended		S.V. ≤ 25			*								
Solids - mg/l													
Turbidity - NTU		<i>S.V.</i> ≤ <i>10</i>			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved		percentile	X	X				*					
Solids - mg/l		(whichever is	11	71									
		less).											
Chloride - mg/l		<i>1-hr Avg. ≤ 860</i> <sup>d</sup>	X		*			X		X			
<b>9</b>		96-hr Avg.≤ 230											
Sulfate - mg/l		S. V. ≤ 250						*					
Alkalinity		S.V.≥ 20			*					X			
(as CaCO <sub>3</sub> ) - mg/l													

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	ie <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER	STANDARDS FOR BENEFICIAL USES	tock	non	10	ct	ontact	npal	mal	ıte	etic	ıce	l
	QUALITY		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X						
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 10.** NAC 445A.1488 is hereby amended to read as follows:

445A.1488 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

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Aquatic Life Species of	of Concern												
Temperature - °C		S.V.≤20			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				Λ							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 6.0	X		*	Х	X	X		Х			
mg/l		5. v . ≥ 0.0	Λ			Λ	Λ	Λ		Λ			
Total Phosphorus		S.V. ≤ 0.10			*	*	X	X					
(as P) - mg/l		5. V. <u>~</u> 0.10					1	1					
Nitrate (as N) - mg/l		<i>S.V.</i> ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		$S.V. \leq 0.06$	X		*			X		X			
Total Ammonia		c			*			Х					
(as N) - mg/l													
Total Suspended		S.V. ≤ 25			*								
Solids - mg/l		2002											
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
		$S.V. \le 500$ or the											
Total Dissolved		95th percentile	X	X				*					
Solids - mg/l		(whichever is	Λ	Λ									
		less).											
Chloride - mg/l		<i>1-hr Avg.≤860</i> <sup>d</sup>	X		*			X		X			
Chieffet mg/1		96-hr Avg.≤230	21					21		21			
Sulfate - mg/l		S.V.≤250						*					
Alkalinity		S.V.≥20			*					X			
(as CaCO <sub>3</sub> ) - mg/l		_ :											

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER	STANDARDS FOR BENEFICIAL USES	ck	lon	၁	15	ntact	ıpal	nal	te	tic	ee	
	QUALITY		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X						
Fecal Coliform - No./100 ml		$S.V. \leq 1,000$	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 11.** NAC 445A.1492 is hereby amended to read as follows:

445A.1492 The limits of this table apply to the body of water known as 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 and Eureka Counties.

## STANDARDS OF WATER QUALITY

### Maggie Creek at Jack Creek

	REQUIREMENTS	MATTER OLLANDEN				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR			Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Aquatic Life Species of	of Concern		Tro	ut.									
Temperature - °C		S.V. ≤ 20			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				1							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 6.0	X		*	X	X	Х		X			
mg/l		5. V. <u>~</u> 0.0	Λ			74	71	1		1			
Total Phosphorus		S.V. ≤ 0.10			*	*	X	Х					
(as P) - mg/l		_											
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		$S.V. \leq 0.06$	X		*			X		X			
Total Ammonia		c			*			X					
(as N) - mg/l													
Total Suspended		S.V. ≤ 25			*								
Solids - mg/l													
Turbidity - NTU		<i>S.V.</i> ≤ <i>10</i>			*								
Color - PCU		$S.V. \leq 75$						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved		percentile	X	X				*					
Solids - mg/l		(whichever is	21	71									
		less).											
Chloride - mg/l		<i>1-hr Avg.≤860</i> <sup>d</sup>	X		*			X		X			
<b>9</b>		96-hr Avg.≤230											
Sulfate - mg/l		S.V.≤250						*					
Alkalinity		S.V.≥ 20			*					X			
(as CaCO <sub>3</sub> ) - mg/l													

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410			,	*	X				7		
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 12.** NAC 445A.1494 is hereby amended to read as follows:

445A.1494 The limits of this table apply to the body of water known as Maggie Creek from its confluence with Jack Creek to its confluence with Soap Creek. This segment of Maggie Creek is located in Eureka County.

## STANDARDS OF WATER QUALITY

# Maggie Creek at Soap Creek

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR			Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Aquatic Life Species of	of Concern		Tro	ut.									
Temperature - °C		S.V. ≤ 20			*	X							
ΔT <sup>b</sup> - °C		$\Delta T \leq 3$				Λ							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 6.0	X		*	X	X	X		X			
mg/l		3. v.≥ 0.0	Λ			Λ	Λ	Λ		Λ			
Total Phosphorus		S.V.≤0.33			*	*	X	X					
(as P) - mg/l		5.1 0.55					11	11					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>0.06</i>	X		*			X		X			
Total Ammonia		c			*			X					
(as N) - mg/l								11					
Total Suspended		S.V. ≤ 25			*								
Solids - mg/l													
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved		percentile	X	X				*					
Solids - mg/l		(whichever is	Λ	Λ									
		less).											
Chloride - mg/l		<i>1-hr Avg.≤860</i> <sup>d</sup>	X		*			X		X			
Chorac mg/i		96-hr Avg.≤230	-					21		2.			
Sulfate - mg/l		S.V.≤250						*					
Alkalinity		S.V.≥ 20			*					X			
(as CaCO <sub>3</sub> ) - mg/l													

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	ontact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410	I		1	*	X	I .		1	f .		I
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 13.** NAC 445A.1496 is hereby amended to read as follows:

445A.1496 The limits of this table apply to the body of water known as Maggie Creek from its confluence with Soap Creek to its confluence with the Humboldt River. This segment of Maggie Creek is located in Elko and Eureka Counties.

## STANDARDS OF WATER QUALITY

# Maggie Creek at the Humboldt River

	REQUIREMENTS	WATER QUALITY				Е	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Aquatic Life Species of	of Concern												
Temperature - °C		S.V. ≤ 34			*	X							
ΔT <sup>b</sup> - °C		$\Delta T \leq 3$				Λ							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 5.0	Х		*	X	X	X		X			
mg/l		3. v.≥ 3.0	Λ			Λ	Λ	Λ		Λ			
Total Phosphorus		S.V.≤0.33			*	*	X	X					
(as P) - mg/l		5 <u>_</u> 0.55											
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>1.0</i>	X		*			X		X			
Total Ammonia		c			*			Х					
(as N) - mg/l													
Total Suspended		S.V.≤80			*								
Solids - mg/l													
Turbidity - NTU		S.V.≤50			*								
Color - PCU		S.V.≤ 75						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved		percentile	X	X				*					
Solids - mg/l		(whichever is	11	71									
		less).											
Chloride - mg/l		<i>1-hr Avg. ≤ 860</i> <sup>d</sup>	X		*			X		X			
,		96-hr Avg.≤ 230											
Sulfate - mg/l		S.V.≤250						*					
Alkalinity		S.V.≥ 20			*					X			
(as CaCO <sub>3</sub> ) - mg/l													

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER	STANDARDS FOR BENEFICIAL USES	tock	thon	tic	act	Noncontact	cıpal	trial	lite	ietic	nce	h
	QUALITY		Livestock	Irrigation	Aquatic	Contact	Nonc	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
E. coli - No./100 ml		A.G.M. ≤ 126				*	X						
		S.V. ≤ 410											
Fecal Coliform -		S.V. ≤ 1,000	X	*			X	X		X			
No./100 ml													

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 14.** NAC 445A.1498 is hereby amended to read as follows:

445A.1498 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

	REQUIREMENTS					E	Bene	ficia	ıl Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	WATER QUALITY STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			

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	
Aquatic Life Species of	of Concern													
Temperature - °C		S.V.≤20			*	X								
ΔT <sup>b</sup> - °C		$\Delta T = 0$				71								
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*				
Dissolved Oxygen -		S.V.≥ 6.0	X		*	X	X	X		X				
mg/l		3. v.≥ 0.0	Λ			Λ	Λ	Λ		Λ				
Total Phosphorus		S.V. \( \le 0.10			*	*	X	X						
(as P) - mg/l		5.7 0.10					71	1						
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X				
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>0.06</i>	X		*			X		X				
Total Ammonia		c			*			X						
(as N) - mg/l														
Total Suspended		S.V. ≤ 25			*									
Solids - mg/l		20,72												
Turbidity - NTU		S.V. ≤ 10			*									
Color - PCU		<i>S.V.</i> ≤ 75						*						
		$S.V. \le 500$ or the 95th												
Total Dissolved		percentile	X	X				*						
Solids - mg/l		(whichever is	Λ	Λ										
		less).												
Chloride - mg/l		$1-hr\ Avg. \le 860^d$	X		*			X		X				
		96-hr Avg. ≤ 230						71		71				
Sulfate - mg/l		S.V. ≤ 250						*						
Alkalinity		S.V.≥ 20			*					X				
(as CaCO <sub>3</sub> ) - mg/l		~												

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	ontact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410	I		1	*	X	I .		1	f .		I
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour concentration limits may be exceeded only once every 3 years.
  - **Sec. 15.** NAC 445A.1502 is hereby amended to read as follows:
- 445A.1502 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  Beneficial Uses	REQUIREMENTS	WATER QUALITY				F	3ene	ficia	l Us	e <sup>a</sup>			
	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			
Aquatic Life Species of	quatic Life Species of Concern												

	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>										
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Temperature - °C		$S.V. \leq 20$			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				Λ							
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					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>0.06</i>	X		*			X		X			
Total Ammonia		c			*			X					
(as N) - mg/l													
Total Suspended Solids - mg/l		S.V. ≤ 25			*								
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
Total Dissolved Solids - mg/l		S.V. $\leq$ 500 or the 95th percentile (whichever is less).	X	X				*					
Chloride - mg/l		$1-hr\ Avg. \le 860^d$ $96-hr\ Avg. \le 230$	X		*			X		X			
Sulfate - mg/l		S.V. ≤ 250						*					
Alkalinity (as CaCO <sub>3</sub> ) - mg/l		S.V.≥ 20			*					X			

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	ontact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410	I		J	*	X	N	Т	1	J	-	N
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour concentration limits may be exceeded only once every 3 years.

**Sec. 16.** NAC 445A.1504 is hereby amended to read as follows:

445A.1504 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

	REQUIREMENTS	WATER QUALITY				Е	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Aquatic Life Species of	Concern												
Temperature - °C		S.V. ≤ 20			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				71							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 6.0	X		*	X	X	X		X			
mg/l		5. v. <u>=</u> 0.0	71			71	71	71		1			
Total Phosphorus		S.V.≤0.10			*	*	Х	X					
(as P) - mg/l		21.12											
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		$S.V. \leq 0.06$	X		*			X		X			
Total Ammonia		c			*			X					
(as N) - mg/l													
Total Suspended		S.V. ≤ 25			*								
Solids - mg/l													
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved Solids		percentile	X	X				*					
- mg/l		(whichever is											
		less).											
Chloride - mg/l		$1-hr\ Avg. \le 860^d$	X		*			X		X			
omoraic ing.		96-hr Avg. ≤ 230	2.							1			
Sulfate - mg/l		S.V. ≤ 250						*					
Alkalinity		S.V.≥ 20			*					X			
(as CaCO <sub>3</sub> ) - mg/l													

	REQUIREMENTS	WATER QUALITY				F	3ene	ficia	l Us	se <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER	STANDARDS FOR BENEFICIAL USES	stock	ttion	ıtıc	act	Noncontact	Municipal	trial	lite	netic	nce	h
	QUALITY	A C M < 120	Livestock	Irrigation	Aquatic	Contact	Nonc	Mun	Industrial	Wildlite	Aesthetic	Enhance	Marsh
E. coli - No./100 ml		A.G.M. ≤ 126 S.V. ≤ 410				*	X						
Fecal Coliform - No./100 ml		S.V. \le 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour concentration limits may be exceeded only once every 3 years.
  - **Sec. 17.** NAC 445A.1506 is hereby amended to read as follows:

445A.1506 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

	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock Irrigation Aquatic Contact Noncontact Municipal Industrial Wildlife Aesthetic Enhance Marsh

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X			X	X	7		I
Aquatic Life Species of	f Concern					<u> </u>			<u> </u>			<u> </u>	
Temperature - °C		S.V. ≤ 24			*	v							
ΔT <sup>b</sup> - °C		$\Delta T = 0$			•	X							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen - mg/l		S.V.≥ 5.0	Х		*	X	Х	X		X			
Total Phosphorus  (as P) - mg/l		S.V. \( \le 0.10			*	*	X	X					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>1.0</i>	X		*			X		X			
Total Ammonia (as N) - mg/l		c			*			X					
Total Suspended Solids - mg/l		S.V. ≤80			*								
Turbidity - NTU		S.V. ≤ 50			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the  95th percentile  (whichever is less).	X	X				*					
Chloride - mg/l		<i>1-hr Avg, ≤ 860</i> <sup>d</sup> 96-hr Avg, ≤ 230	X		*			X		X			
Sulfate - mg/l		S.V.≤250						*					

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Alkalinity (as CaCO <sub>3</sub> ) - 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. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 18.** NAC 445A.1508 is hereby amended to read as follows:
  - 445A.1508 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

	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock Irrigation Aquatic Contact Noncontact Municipal Industrial Wildlife Aesthetic Enhance Marsh

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR	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	of Concern				1		1						
Temperature - °C		S.V. ≤ 34			*	v							
ΔT <sup>b</sup> - °C		$\Delta T \leq 3$			*	X							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen - mg/l		S.V.≥ 5.0	X		*	Х	Х	X		X			
Total Phosphorus  (as P) - mg/l		S.V.≤ 0.33			*	*	X	X					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>1.0</i>	X		*			X		X			
Total Ammonia (as N) - mg/l		c			*			X					
Total Suspended Solids - mg/l		S. V. ≤ 80			*								
Turbidity - NTU		S.V. ≤ 50			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
Total Dissolved Solids - mg/l		S.V. $\leq$ 500 or the 95th percentile (whichever is less).	X	X				*					
Chloride - mg/l		1-hr Avg. ≤ 860 <sup>d</sup> 96-hr Avg. ≤ 230	X		*			X		X			
Sulfate - mg/l		S.V.≤250						*					

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Alkalinity (as CaCO <sub>3</sub> ) - 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. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 19.** NAC 445A.1512 is hereby amended to read as follows:
- 445A.1512 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

	REQUIREMENTS		Beneficial Use <sup>a</sup>
	TO MADITADI	WATER QUALITY	
PARAMETER	TO MAINTAIN	STANDARDS FOR	
THE WILL LET	EXISTING HIGHER	STRIBITED	
	0.22.4.2.2	BENEFICIAL USES	rrigation Nquatic Contact Noncontact Municipal Industrial Wildlife Nesthetic Enhance
	QUALITY		Livestock Irrigation Aquatic Contact Noncontact Municipal Industrial Wildlife Aesthetic Enhance

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	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	of Concern			l				I		I	I	I	1
Temperature - °C		$S.V. \leq 20$			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				A							
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. \( \le 0.10			*	*	X	X					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		S.V. ≤ 0.06	X		*			X		X			
Total Ammonia (as N) - mg/l		c			*			X					
Total Suspended Solids - mg/l		S.V. ≤ 25			*								
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
Total Dissolved Solids - mg/l		S.V. ≤ 500 or the 95th  percentile  (whichever is less).	X	X				*					
Chloride - mg/l		1-hr Avg. ≤ 860 <sup>d</sup> 96-hr Avg. ≤ 230	X		*			X		X			
Sulfate - mg/l		S.V.≤250						*					

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Alkalinity (as CaCO <sub>3</sub> ) - mg/l		S.V.≥20			*					X			
E. coli - No./100 ml		$A.G.M. \le 126$ $S.V. \le 410$				*	X						
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 20.** NAC 445A.1514 is hereby amended to read as follows:
  - 445A.1514 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

	REQUIREMENTS		Beneficial Use <sup>a</sup>
	TO MADITADI	WATER QUALITY	
PARAMETER	TO MAINTAIN	STANDARDS FOR	
THE WILL LET	EXISTING HIGHER	STRIBITED	
	0.22.4.2.2	BENEFICIAL USES	rrigation Nquatic Contact Noncontact Municipal Industrial Wildlife Nesthetic Enhance
	QUALITY		Livestock Irrigation Aquatic Contact Noncontact Municipal Industrial Wildlife Aesthetic Enhance

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal		Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X			X	X			
Aquatic Life Species of	of Concern					1				I		I	I
Temperature - °C		S.V. \le 20			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				Λ							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen - mg/l		S.V.≥ 6.0	Х		*	X	X	X		X			
Total Phosphorus  (as P) - mg/l		S.V. \( \le 0.025			*	*	X	X					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>0.06</i>	X		*			X		X			
Total Ammonia (as N) - mg/l		c			*			X					
Total Suspended Solids - mg/l		S.V. ≤ 25			*								
Turbidity - NTU		<i>S.V.</i> ≤ <i>10</i>			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
Total Dissolved Solids - mg/l		S.V. $\leq$ 500 or the 95th percentile (whichever is less).	X	X				*					
Chloride - mg/l		1-hr Avg. ≤ 860 <sup>d</sup> 96-hr Avg. ≤ 230	X		*			X		X			
Sulfate - mg/l		S.V.≤250						*					

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Alkalinity (as CaCO <sub>3</sub> ) - 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. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 21.** NAC 445A.1516 is hereby amended to read as follows:
- 445A.1516 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

	REQUIREMENTS		Beneficial Use <sup>a</sup>
	TO MADITADI	WATER QUALITY	
PARAMETER	TO MAINTAIN	STANDARDS FOR	
THUMNETER	EXISTING HIGHER	STRIBITED	
	0.22.4.2.2	BENEFICIAL USES	rrigation Nquatic Contact Noncontact Municipal Industrial Wildlife Nesthetic Enhance
	QUALITY		Livestock Irrigation Aquatic Contact Noncontact Municipal Industrial Wildlife Aesthetic Enhance

	REQUIREMENTS	WATER QUALITY				Е	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses	<u> </u>		X	X	X	X		X		X	7		
Aquatic Life Species of	of Concern						1	1					
Temperature - °C		S.V. ≤ 24			*	v							
ΔT <sup>b</sup> - °C		$\Delta T = 0$			•	X							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen - mg/l		S.V.≥ 5.0	Х		*	Х	Х	Х		X			
Total Phosphorus  (as P) - mg/l		S.V. \( \le 0.10			*	*	X	X					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>1.0</i>	X		*			X		X			
Total Ammonia (as N) - mg/l		c			*			X					
Total Suspended Solids - mg/l		S.V. ≤ 80			*								
Turbidity - NTU		S. V. ≤ 50			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
Total Dissolved Solids - mg/l		S.V. $\leq$ 500 or the 95th percentile (whichever is less).	X	X				*					
Chloride - mg/l		1-hr Avg. ≤ 860 <sup>d</sup> 96-hr Avg. ≤ 230	X		*			X		X			
Sulfate - mg/l		S.V.≤250						*					

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	ıl Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Alkalinity (as CaCO <sub>3</sub> ) - mg/l		S.V.≥ 20			*					X			
E. coli - No./100 ml		$A.G.M. \le 126$ $S.V. \le 410$				*	X						
Fecal Coliform - No./100 ml		$S.V. \leq 1,000$	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 22.** NAC 445A.1542 is hereby amended to read as follows:
- 445A.1542 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	WATER QUALITY	Beneficial Use <sup>a</sup>

	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	ck	uc		_	itact	pal	ıal	e	JC	ė	
	QUALITY		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X		X	X	X	A	<u> </u>	<u> </u>
Aquatic Life Species of	of Concern												
Temperature - °C		S.V. ≤ 20											
ΔT <sup>b</sup> - °C		$\Delta T = 0$			*	X							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 6.0	X		*	X	X	X		X			
mg/l		S. V. ≥ 0.0	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			Λ	Λ	Λ		Λ			
Total Phosphorus		S.V. ≤ 0.10			*	*	X	X					
(as P) - mg/l		5.7 0.10						21					
Nitrate (as N) - mg/l		<i>S.V.</i> ≤ <i>10</i>	X		X			*		X			
Nitrite (as N) - mg/l		S.V. ≤ 0.06	X		*			X		X			
Total Ammonia		c			*			X					
(as N) - mg/l								Λ					
Total Suspended		S.V. ≤ 25			*								
Solids - mg/l		5.7. = 25											
Turbidity - NTU		<i>S.V.</i> ≤ 10			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
		$S.V. \le 500$ or the 95th	ı										
Total Dissolved		percentile	X	X				*					
Solids - mg/l		(whichever is											
		less).											
Chloride - mg/l		<i>1-hr Avg. ≤ 860</i> <sup>d</sup>	X		*			X		X			
		96-hr Avg.≤ 230											
Sulfate - mg/l		S.V.≤250						*					
Alkalinity		S.V.≥20			*					X			
(as CaCO <sub>3</sub> ) - mg/l													

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
			LI	ш	Αq	္	Š	Mı	Jur	M.	Ae	Eп	Mg
E 1: N /100 1		$A.G.M. \le 126$					37						
E. coli - No./100 ml		S.V. ≤ 410				*	X						
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 23.** NAC 445A.1544 is hereby amended to read as follows:
- 445A.1544 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

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			<u>5</u>	E X	X Ad		o X	ž X		Ş X	Ae	En	Ma
Aquatic Life Species of	of Concern		Tro	ut.									
Temperature - °C		S.V. ≤ 20		T	I	1				1	1	1	
•					*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$											
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 6.0	X		*	X	X	X		X			
mg/l		$3. \text{ V.} \geq 0.0$	Λ			Λ	Λ	Λ		Λ			
Total Phosphorus		C.V. < 0.10			*	*	v	v					
(as P) - mg/l		$S.V. \le 0.10$			r	, T	X	X					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>0.06</i>	X		*			X		X			
Total Ammonia		c			*			77					
(as N) - mg/l		·			*			X					
Total Suspended		S.V. < 25			*								
Solids - mg/l		S. V. ≤ 25											
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved		percentile											
Solids - mg/l		(whichever is	X	X				*					
		less).											
Chloride - mg/l		1-hr Avg.≤860 <sup>d</sup> 96-hr Avg.≤230	X		*			X		X			
Sulfate - mg/l		S.V.≤250						*					

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Alkalinity (as CaCO <sub>3</sub> ) - mg/l		S.V.≥ 20			*					X			
E. coli - No./100 ml		$A.G.M. \le 126$ $S.V. \le 410$				*	X						
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.

## **Sec. 24.** NAC 445A.1546 is hereby amended to read as follows:

445A.1546 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	WATER QUALITY	Beneficial Use <sup>a</sup>

	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	ck	uc	0		ıtact	pal	ıal	e	211	ě	
	QUALITY		Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X	1	Н	I
Aquatic Life Species of	of Concern												
Temperature - °C		S.V. ≤ 24			*	37							
ΔT <sup>b</sup> - °C		$\Delta T = 0$			•	X							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 5.0	X		*	X	X	X		X			
mg/l		3. v.≥ 3.0	Λ			Λ	Λ	Λ		Λ			
Total Phosphorus		S.V. ≤ 0.10			*	*	X	X					
(as P) - mg/l		5.7 0.10					21	21					
Nitrate (as N) - mg/l		S. V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>1.0</i>	X		*			X		X			
Total Ammonia		c			*			X					
(as N) - mg/l								Λ					
Total Suspended		<i>S.V.</i> ≤ <i>80</i>			*								
Solids - mg/l		5.7. = 00											
Turbidity - NTU		<i>S.V.</i> ≤ 50			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved		percentile	X	X				*					
Solids - mg/l		(whichever is											
		less).											
Chloride - mg/l		1-hr Avg.≤860 <sup>d</sup>	X		*			X		X			
		96-hr Avg.≤ 230											
Sulfate - mg/l		S.V.≤250						*					
Alkalinity		S.V.≥20			*					X			
(as CaCO <sub>3</sub> ) - mg/l		_											

	REQUIREMENTS	WATER QUALITY				F	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER	BENEFICIAL USES	tock	tion	tic	act	Noncontact	cıpal	trial	lite	etic	nce	п
	QUALITY		Livestock	Irrigation	Aquatic	Contact	Nonc	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
E. coli - No./100 ml		A.G.M. ≤ 126				*	X						
		S.V. ≤ 410											
Fecal Coliform -		S.V. ≤ 1,000	X	*			X	X		X			
No./100 ml													

\* = The most restrictive beneficial use.

#### X = Beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.

**Sec. 25.** NAC 445A.1548 is hereby amended to read as follows:

445A.1548 The limits of this table apply to the body of water known as Green Mountain Creek from its origin to [the national forest boundary. This segment of] its confluence with Toyn Creek. Green Mountain Creek is located in Elko County.

# STANDARDS OF WATER QUALITY

Green Mountain Creek at [the national forest boundary] Toyn Creek

	REQUIREMENTS	WATER QUALITY				I	Bene	ficia	ıl Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X	X	X	X	X			

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Aquatic Life Species of	of Concern												
Temperature - °C		S.V. ≤ 20			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				71							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥ 6.0	Х		*	X	X	X		X			
mg/l		5. V. <u>~</u> 0.0	Λ			Λ	1	1		Λ			
Total Phosphorus		S.V. ≤ 0.10			*	*	X	X					
(as P) - mg/l		3111_3111											
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ 0.06	X		*			X		X			
Total Ammonia		c			*			Х					
(as N) - mg/l													
Total Suspended		S.V. ≤ 25			*								
Solids - mg/l													
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		S.V. ≤ 75						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved		percentile	X	X				*					
Solids - mg/l		(whichever is											
		less).											
Chloride - mg/l		1-hr Avg.≤860 <sup>d</sup>	X		*			X		X			
,		96-hr Avg.≤230											
Sulfate - mg/l		S.V.≤250						*					
Alkalinity		S.V.≥20			*					X			
(as CaCO <sub>3</sub> ) - mg/l		_											

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	Irrigation	Aquatic	ontact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	rsh
E. coli - No./100 ml	QOALITI	A.G.M. ≤ 126 S.V. ≤ 410	LIV	griri	Aqu	* Con	ION X	Mm	Indi	WII	Aes	Enh	Marsh
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.

**Sec. 26.** NAC 445A.1552 is hereby amended to read as follows:

445A.1552 The limits of this table apply to the body of water known as [Green Mountain] *Toyn* Creek from [the national forest boundary] 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

	REQUIREMENTS	WATER QUALITY					Ber	nefic	cial 1	Use <sup>a</sup>			
PARAMETER	TO MAINTAIN	STANDARDS FOR											
	EXISTING HIGHER  QUALITY	BENEFICIAL USES	Livestock	ırrıganon	Aquanc	Contact	Noncontact	Municipai	Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X				X			
Aquatic Life Species	of Concern		Tro	ut.	I				<u>I</u>	<u> </u>			1
Temperature - °C		S.V. ≤ 20			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$			~	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		$S.V. \leq 0.10$			*	*	X	X					
Nitrate (as N) - mg/l		S.V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>0.06</i>	X		*			X		X			
Total Ammonia (as N) - mg/l		c			*			X					
Total Suspended  Solids - mg/l		S.V. ≤ 25			*								
Turbidity - NTU		S.V. ≤ 10			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
Total Dissolved Solids - mg/l		S.V. $\leq 500$ or the 95th percentile (whichever is less).	X	X				*					
Chloride - mg/l		1-hr Avg.≤ 860 <sup>d</sup> 96-hr Avg.≤ 230	X		*			X		X			
Sulfate - mg/l		S.V.≤250						*					

	REQUIREMENTS	WATER QUALITY					Ben	efic	cial U	Jse <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR BENEFICIAL USES	Livestock	игидацоп	Aquanc	Contact	Noncontact	ıvıunıcıpaı	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Alkalinity (as CaCO <sub>3</sub> ) - 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. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 27.** NAC 445A.1554 is hereby amended to read as follows:

445A.1554 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

	REQUIREMENTS	WATER QUALITY				E	Bene	ficia	l Us	e <sup>a</sup>			
PARAMETER	TO MAINTAIN EXISTING HIGHER	STANDARDS FOR	×				act	al					
	QUALITY	BENEFICIAL USES	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X	X		X		X	,		
Aquatic Life Species	of Concern			l	<u> </u>		I		<u> </u>	<u> </u>	<u> </u>		
Temperature - °C		$S.V. \leq 20$			*	X							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				Λ							
pH - SU		S.V. 6.5 - 9.0	X	X	*	*		X	X	*			
Dissolved Oxygen -		S.V.≥6.0	X		*	X	X	X		X			
mg/l		5. v . <u>~</u> 0.0				1	71	71		1			
Total Phosphorus		S.V. ≤ 0.10			*	*	X	X					
(as P) - mg/l		5.10.10					11	21					
Nitrate (as N) - mg/l		<i>S.V.</i> ≤ <i>10</i>	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ <i>0.06</i>	X		*			X		X			
Total Ammonia		c			*			X					
(as N) - mg/l								71					
Total Suspended		<i>S.V.</i> ≤ 25			*								
Solids - mg/l		21/1/220											
Turbidity - NTU		<i>S.V.</i> ≤ <i>10</i>			*								
Color - PCU		<i>S.V.</i> ≤ 75						*					
		$S.V. \le 500$ or the 95th											
Total Dissolved		percentile	X	X				*					
Solids - mg/l		(whichever is	1	21									
		less).											
Chloride - mg/l		1-hr Avg. ≤ 860 <sup>d</sup> 96-hr Avg. ≤ 230	X		*			X		X			
Sulfate - mg/l		S.V.≤250						*					

	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>											
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh	
Alkalinity (as CaCO <sub>3</sub> ) - mg/l		S.V.≥ 20			*					X				
E. coli - No./100 ml		$A.G.M. \le 126$ $S.V. \le 410$				*	X							
Fecal Coliform - No./100 ml		S.V. ≤ 1,000	X	*			X	X		X				

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.
  - **Sec. 28.** NAC 445A.1578 is hereby amended to read as follows:
- 445A.1578 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

	REQUIREMENTS	WIATED ON LITTLE	Beneficial Use <sup>a</sup>
PARAMETER	TO MAINTAIN	WATER QUALITY  STANDARDS FOR  R  BENEFICIAL USES	
	EXISTING HIGHER		Irrigation Aquatic Contact Contact Noncontact Municipal Industrial Wildlife Aesthetic Enhance
	QUALITY		Livestoc Irrigation Aquatic Contact Contact Noncont Municip Industria Wildlife Wildlife Enhance Enhance

	REQUIREMENTS	WATER QUALITY  Beneficial Use <sup>a</sup>											
PARAMETER	TO MAINTAIN  EXISTING HIGHER  QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlite	Aesthetic	Enhance	Marsh
Beneficial Uses			X	X	X		X	X		X			
Aquatic Life Species	of Concern		Tro	ut.		1					I	1	
Temperature - °C		S.V. ≤ 20			*	v							
ΔT <sup>b</sup> - °C		$\Delta T = 0$				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. \( \le 0.10			*	*	X	X					
Nitrate (as N) - mg/l		S. V. ≤ 10	X		X			*		X			
Nitrite (as N) - mg/l		<i>S.V.</i> ≤ 0.06	X		*			X		X			
Total Ammonia (as N) - mg/l		c			*			X					
Total Suspended Solids - mg/l		S. V. ≤ 25			*								
Turbidity – NTU		S.V. ≤ 10			*								
Color – PCU		<i>S.V.</i> ≤ 75						*					
Total Dissolved Solids - mg/l		S.V. $\leq$ 500 or the 95th percentile (whichever is less).	X	X				*					
Chloride - mg/l		$1-hr\ Avg. \le 860^d$ $96-hr\ Avg. \le 230$	X		*			X		X			
Sulfate - mg/l		S.V. ≤ 250						*					

PARAMETER	REQUIREMENTS	WATER QUALITY	Beneficial Use <sup>a</sup>										
	TO MAINTAIN EXISTING HIGHER QUALITY	STANDARDS FOR	Livestock	Irrigation	Aquatic	Contact	Noncontact	Municipal	Industrial	Wildlife	Aesthetic	Enhance	Marsh
Alkalinity (as CaCO <sub>3</sub> ) - 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. ≤ 1,000	X	*			X	X		X			

<sup>\* =</sup> The most restrictive beneficial use.

- <sup>a</sup> Refer to NAC 445A.122 and 445A.1432 for beneficial use terminology.
- 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.
- d One-hour and 96-hour average concentration limits may be exceeded only once every 3 years.

## **Permanent Regulation – Informational Statement**

A Regulation Relating to Water Quality Standards

Legislative Review of Adopted Regulations as Required by Administrative Procedures Act, NRS 233B.066 & 233B.0603.10(f)

# State Environmental Commission (SEC) LCB File No: R102-14

## **Regulation R102-14:**

On October 8, 2014, the SEC adopted a regulation modification related to the NDEP Bureau of Water Quality. The proposed regulation amends the water quality regulations for the former "Class Waters" located in the Upper Humboldt River Basin. Revisions include the addition of numeric criteria for nitrate, nitrite, total suspended solids, turbidity, color, chloride, sulfate and alkalinity based upon guidance published by the U.S. Environmental Protection Agency (EPA). These additions were deemed necessary to properly protect the designated beneficial uses.

# 1. Need for Regulation:

State law (NRS 445A.520) requires that standards be set at levels designed to protect beneficial uses for surface waters of the state. Nevada has been delegated authority to set water quality standards under the Clean Water act and federal regulations (40CFR 131.20) require states to periodically review their water quality standards, and as appropriate update those standards. A review of the available data, scientific literature and EPA guidance indicated that the proposed standards changes be made to protect the beneficial uses currently designated for these waters.

# 2. A description of how public comment was solicited, a summary of public response and an explanation of how other interested persons may obtain a copy of the summary.

On May 19 and May 21, 2014, NDEP conducted public workshops on LCB's Proposed Draft Regulation R102-14. The workshops were held in Carson City and Elko. The meeting location in Carson City was at the Bryan Building located at 901 S. Stewart Street (Tahoe Conference Room) and the meeting in Elko was at the County library, located at 720 Court Street.

One (2) members of the public commented at the workshop. Those people were:

Randy Brown, Elko County Glen Guttry, Elko County Commissioner

Both questions were related to EPA's pending rule regarding Waters of the United States.

Questions from the public presented at the workshop were addressed by NDEP staff; summary minutes of the workshop are posted on the SEC website at: http://sec.nv.gov/main/hearing\_1014.htm.

Following the workshop, the SEC held a formal regulatory hearing on October 8, 2014 at the Nevada Department of Conservation and Natural Resources, 901 South Stewart Street, Carson City, Nevada. A public notice and agenda for the regulatory meeting was posted at the meeting location, at the State Library in Carson City, at the Office of the Division of Environmental Protection in Las Vegas, at the Division of Minerals in Carson City, at the Division of Wildlife, on the LCB website, on the Division of Administration website and on the SEC website.

Copies of the agenda, the public notice, and the proposed permanent regulation R102-14 were also made available at all public libraries throughout the state as well as to individuals on the SEC mailing list and the Bureau of Water Quality Planning electronic mailing list.

The public notice for the proposed regulation was published in the Las Vegas Review Journal and Reno Gazette Journal newspapers once a week for three consecutive weeks prior to the SEC regulatory meeting. Other information about this regulation was made available on the SEC website at: http://sec.nv.gov/main/hearing\_1014.htm.

# 3. The number of persons who attended the SEC Regulatory Hearing:

- (a) Attended October 8, 2014 hearing: 16 (approximately)
- (b) Testified on this Petition at the hearing: 0
- (c) Submitted to the agency written comments: 1

The name of the person who submitted written comments was not present at the hearing: Paul Bottari
Elko County Association of Realtors
557 West Silver St. Suite 201B, Elko, NV 89801
(775) 738-2395
paul@bottarirealty.com

4. A description of how comment was solicited from affected businesses, a summary of their response, and an explanation of how other interested persons may obtain a copy of the summary.

Comments were solicited from affected businesses through e-mail, a public workshop and at the October 8, 2014 SEC hearing as noted in number 2 above.

5. If the regulation was adopted without changing any part of the proposed regulation, a summary of the reasons for adopting the regulation without change.

The regulation was adopted without changes as the SEC determined that the comment received did not necessitate a change (see Number 2 above).

# 6. The estimated economic effect of the adopted regulation on the business which it is to regulate and on the public.

(a) Regulated Business/Industry. The proposed revisions are not expected to have any direct economic effect on the regulated community both immediately and long term. Water quality standards in of themselves do not directly regulate businesses, although standards do form the basis for effluent limits imposed by NDEP through the National Pollutant Discharge Elimination System (NPDES) permit program and the terms and conditions imposed through the Clean Water Act 401 program for any dredging or filling activity in Nevada waters. Currently, there is only one active NPDES permit for a discharge to any of the waters addressed in this proposal. Newmont Mining Corporation's Gold Quarry Mine has an NPDES permit to discharge mine dewatering water to Maggie Creek. A review of the available water quality data for Gold Quarry Mine indicates that the discharge is meeting the proposed additional water quality criteria.

(b) <u>Public</u>. The proposed revisions are expected to have some beneficial economic effect on the public both immediately and long-term. Overall, the current water quality standards have beneficial effects in terms of protecting public health and welfare, supporting aquatic wildlife, and recreational uses. All of these factors provide economic benefits to the public. The proposed changes will provide additional protection of the beneficial uses, thereby improving the level of public benefit.

# 7. The estimated cost to the agency for enforcement of the adopted regulation.

As the changes are primarily cleanup, there will be no additional cost to the Agency.

8. A description of any regulations of other state or government agencies which the proposed regulation overlaps or duplicates and a statement explaining why the duplication or overlapping is necessary. If the regulation overlaps or duplicates a federal regulation, the name of the regulating federal agency.

Implementation of the proposed regulations is not expected to result in additional cost to the agency for enforcement.

9. If the regulation includes provisions which are more stringent than a federal regulation, which regulates the same activity, a summary of such provisions.

There is no federal regulation for these proposed water quality standards revisions. The federal government has delegated responsibility for establishing water quality standards to NDEP. Setting the proposed water quality standards at levels to protect beneficial uses of surface waters of the State enables NDEP to maintain its delegation of the Clean Water Act.

10. If the regulation provides a new fee or increases an existing fee, the total annual amount the agency expects to collect and the manner in which the money will be used.

The regulation does not address fees.