

PROPOSED REGULATION OF THE STATE ENVIRONMENTAL COMMISSION

LCB File No. R129-10

SEC P2010-08 June 30, 2010

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

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

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

Sec 1 **NAC 445A.1312 (Formerly 445A.124)** The limits of this table apply to the body of water known as the East and South Forks of the Quinn River from their origin to the confluence of the East and South Forks, *except for the length of the river within the exterior borders of the Fort McDermitt Indian Reservation.* This segment of the East and South Forks of the Quinn River is located in Humboldt County

STANDARDS OF WATER QUALITY Quinn River

The limits of this table apply from its origin to the confluence of the east fork and south fork.

| PARAMETER | REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY | WATER QUALITY STANDARDS FOR BENEFICIAL USES | Beneficial Use ^a | | | | | | | | | | | | |
|-----------------------------------|--|---|-----------------------------|------------|---------|---------|------------|-----------|------------|----------|-----------|---------|-------|--|--|
| | | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | | |
| Beneficial Uses for NAC 445A.1312 | | | X | X | X | X | X | X | | | X | | | | |
| Aquatic Life Species of concern | | | | | | | | | | | | | | | |
| Temperature °C ΔT^b | | SV ≤ 20 0 | | | * | X | | | | | | | | | |
| pH Units | | S.V. 6.5 - 9.0 | X | X | * | * | X | X | | * | | | | | |
| Total Phosphorous (as P) - mg/l | | S.V. ≤ 0.10 | | | * | * | X | X | | | | | | | |
| Dissolved Oxygen - mg/l | | S.V. ≥ 6.0 | X | | * | X | X | X | | X | | | | | |
| Total Ammonia (as N) - mg/l | | ^c | | | * | | | | | | | | | | |
| Total Dissolved Solids - mg/l | | SV. ≤ 500 the 95th percentile (whichever is less). | X | X | | | | | * | | | | | | |
| E coli - No./100 ml | | AGM ≤ 126 SV ≤ 410 | | | | * | X | | | | | | | | |
| Fecal Coliform- No./100 ml | | $\leq 200/400^d$ | X | X | | * | X | X | | X | | | | | |

* = The most restrictive beneficial use.

X = Beneficial Use

^a Refer to NAC 445A.122 and 445A.150 for beneficial use terminology.

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

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

^d Must not exceed a geometric mean of 200 per 100 milliliters based on a minimum of 5 samples during any 30-day period, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 ml.

Sec 2 ~~[NAC 445A.1314 (445A.125)]~~ The limits of this table apply to the body of water known as the Quinn River from the point of the confluence of the East and South Forks to the Fort McDermitt Indian Reservation diversion dam. This segment of the Quinn River is located in Humboldt County.

STANDARDS OF WATER QUALITY

Quinn River at the Fort McDermitt Reservation

| PARAMETER | REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY | WATER QUALITY STANDARDS FOR BENEFICIAL USES | Beneficial Uses ^a | | | | | | | | | | | | | | |
|------------------------------------|--|--|------------------------------|------------|---------|---------|------------|-----------|------------|----------|-----------|---------|-------|--|--|--|--|
| | | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | | | | |
| Beneficial Uses for NAC 445A.1312 | | | X | X | X | X | X | X | X | X | X | X | | | | | |
| Aquatic Life Species of concern | | | Trout | | | | | | | | | | | | | | |
| Temperature °C Δ T ^b | | S.V. ≤20 θ | | | * | X | | | | | | | | | | | |
| pH Units | | S.V. -6.5-9.0 | X | X | * | * | X | X | X | * | | | | | | | |
| Total Phosphorous (as P) - mg/l | | S.V. ≤0.1 | | | * | * | X | X | | | | | | | | | |
| Dissolved Oxygen - mg/l | | S.V. ≥6.0 | X | | * | X | X | X | | X | | | | | | | |
| Total Ammonia (as N) - mg/l | | e | | | * | | | | | | | | | | | | |
| Total Dissolved Solids - mg/l | | S.V. ≤500 the 95th percentile (whichever is less). | X | X | | | | | * | | | | | | | | |
| E. coli - No./100 ml | | —AGM ≤126 —SV ≤410 | | | | * | X | | | | | | | | | | |
| Fecal Coliform - No./100 ml | | - ≤200/400 ^d | X | X | | * | X | X | | X | | | | | | | |

* = The most restrictive beneficial use.

X = Beneficial Use

^a Refer to NAC 445A.122 and 445A.150 for beneficial use terminology.

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

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

^d Must not exceed a geometric mean of 200 per 100 milliliters based on a minimum of 5 samples during any 30-day period, nor may more than 10 percent of total samples during any 30-day period exceed 400 per 100 ml.]

Sec. 3. NAC445A.1316 (445A.127): The limits of this table apply to the body of water known as the Quinn River from the ~~Idaho~~ Oregon -Nevada state line in section 31, T. 48 N., R. 38 E., M.D.B. & M., to the confluence with the main tributary of the Quinn River at the south line of section 17, T. 47 N., R. 38 E., M.D.B. & M. *except for the length of the river within the exterior borders of the Fort McDermitt Indian Reservation.* This segment of the Quinn River is located in Humboldt County.

**STANDARDS OF WATER QUALITY
Quinn River (The Slough)**

| PARAMETER | REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY | WATER QUALITY STANDARDS FOR BENEFICIAL USES | Beneficial Use ^a | | | | | | | | | | | |
|---------------------------------|--|---|-----------------------------|------------|---------|---------|------------|-----------|------------|----------|-----------|---------|-------|--|
| | | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | |
| Beneficial Uses | | | X | X | X | | X | | X | X | | | | |
| Aquatic Life Species of Concern | | | | | | | | | | | | | | |
| pH - SU | | S.V. 6.0 - 9.0 | X | X | * | | | | X | * | | | | |
| Dissolved Oxygen - mg/l | | S.V. ≥ 3.0 | X | | * | | X | | | X | | | | |
| Total Ammonia (as N) - mg/l | | b | | | * | | | | | | | | | |
| E coli - No./100 ml | | AGM ≤ 630 | | | | | * | | | | | | | |

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

a Refer to NAC 445A.122 and section 11 of this regulation for beneficial use terminology.

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

Sec. 4. NAC445A.1354 (445A.127): The limits of this table apply to the body of water known as the Humboldt River from Rodgers Dam to ~~[-, and including,]~~ the Humboldt Sink. This segment of the Humboldt River is located in Churchill and Pershing Counties.

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

| PARAMETER | REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY | WATER QUALITY STANDARDS FOR BENEFICIAL USES | Beneficial Use ^a | | | | | | | | | | | | |
|---------------------------------|--|---|-----------------------------|------------|---------|---------|------------|-----------|------------|----------|-----------|---------|-------|--|--|
| | | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | | |
| Beneficial Uses | | | X | X | X | | | X | | X | X | | | | |
| Aquatic Life Species of Concern | | | | | | | | | | | | | | | |
| pH - SU | | S.V. 6.0 - 9.0 | X | X | * | | | | | X | * | | | | |
| Dissolved Oxygen - mg/l | | S.V. ≥ 3.0 | X | | * | | X | | | X | | | | | |
| Total Ammonia (as N) - mg/l | | b | | | * | | | | | | | | | | |
| E coli - No./100 ml | | AGM ≤ 1630 126 S.V. 576 | | | | | | * | | | | | | | |

* = The most restrictive beneficial use.

X = Beneficial use.

^a Refer to NAC 445A.122 and section 59 of this regulation for beneficial use terminology.

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

Sec. 5. *NAC445A.1355 (445A.127): The limits of this table apply to the body of water known as the Humboldt Sink. This segment of the Humboldt Sink is located in Churchill and Pershing Counties.*

STANDARDS OF WATER QUALITY
The Humboldt Sink

| PARAMETER | REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY | WATER QUALITY STANDARDS FOR BENEFICIAL USES | Beneficial Use ^a | | | | | | | | | | | |
|--|---|---|-----------------------------|------------|---------|---------|------------|-----------|------------|----------|-----------|---------|-------|--|
| | | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | |
| <i>Beneficial Uses</i> | | | X | X | X | | X | | X | X | | | | |
| <i>Aquatic Life Species of Concern</i> | | | | | | | | | | | | | | |
| <i>pH - SU</i> | | <i>S.V. 6.0 - 9.0</i> | X | X | * | | | | X | * | | | | |
| <i>Dissolved Oxygen - mg/l</i> | | <i>S.V. ≥ 3.0</i> | X | | * | | X | | | X | | | | |
| <i>Total Ammonia (as N) - mg/l</i> | | <i>b</i> | | | * | | | | | | | | | |
| <i>E coli - No./100 ml</i> | | <i>AGM ≤ 630</i> | | | | | * | | | | | | | |

* = The most restrictive beneficial use.

X = Beneficial use.

a Refer to NAC 445A.122 and section 59 of this regulation for beneficial use terminology.

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

Sec. 6. NAC445A.1726 (445A.127): The limits of this table apply to the body of water known as Steamboat Creek from gaging station number 10-349300, located in the S 1/2 of section 33, T. 18 N., R. 20 E., M.D.B. & M., to its confluence with the Truckee River. This segment of Steamboat Creek is located in Washoe County.

**STANDARDS OF WATER QUALITY
Steamboat Creek at the Truckee River**

| PARAMETER | REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY | WATER QUALITY STANDARDS FOR BENEFICIAL USES | Beneficial Use ^a | | | | | | | | | | | |
|---------------------------------|--|---|-----------------------------|------------|---------|---------|------------|-----------|------------|----------|-----------|---------|-------|--|
| | | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | |
| Beneficial Uses | | | X | X | X | | X | | X | X | | | | |
| Aquatic Life Species of Concern | | | | | | | | | | | | | | |
| pH - SU | | S.V. 6.0 - 9.0 | X | X | * | | | | X | * | | | | |
| Dissolved Oxygen - mg/l | | S.V. ≥ 3.0 | X | | * | | X | | | X | | | | |
| Total Ammonia (as N) - mg/l | | b | | | * | | | | | | | | | |
| E coli - No./100 ml | | AGM ≤ 1630 126 S.V. 576 | | | | | * | | | | | | | |

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

^a Refer to NAC 445A.122 and section 121 of this regulation for beneficial use terminology.

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

Sec. 7. NAC445A.1760 (445A.127): The limits of this table apply to the entire body of water known as Lagomarsino Creek, also known as Long Valley Creek. Lagomarsino Creek is located in Storey County.

STANDARDS OF WATER QUALITY
Lagomarsino Creek

| PARAMETER | REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY | WATER QUALITY STANDARDS FOR BENEFICIAL USES | Beneficial Use ^a | | | | | | | | | | | | |
|--|--|---|-----------------------------|------------|---------|---------|------------|-----------|------------|----------|-----------|---------|-------|--|--|
| | | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | | |
| Beneficial Uses | | | X | X | X | | X | | X | X | | | | | |
| Aquatic Life Species of Concern | | | | | | | | | | | | | | | |
| pH - SU | | S.V. 6.0 - 9.0 | X | X | * | | | | | X | * | | | | |
| Dissolved Oxygen - mg/l | | S.V. ≥ 3.0 | X | | * | | X | | | | X | | | | |
| Total Ammonia (as N) - mg/l | | b | | | * | | | | | | | | | | |
| E coli - No./100 ml | | AGM ≤ 1630 126 S.V. 576 | | | | | | * | | | | | | | |

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

^a Refer to NAC 445A.122 and section 121 of this regulation for beneficial use terminology.

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

Sec. 8. NAC445A.2034 (445A.127): The limits of this table apply to the body of water known as Murray Creek from its confluence with Gleason Creek to *Crawford Street*. ~~[the south line of section 35, T. 17 N., R. 63 E., M.D.B. & M.]~~ Murray Creek is located in White Pine County.

STANDARDS OF WATER QUALITY
Murray Creek

| PARAMETER | REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY | WATER QUALITY STANDARDS FOR BENEFICIAL USES | Beneficial Use ^a | | | | | | | | | | | |
|---------------------------------|--|---|-----------------------------|------------|---------|---------|------------|-----------|------------|----------|-----------|---------|-------|--|
| | | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | |
| Beneficial Uses | | | X | X | X | | X | | X | X | | | | |
| Aquatic Life Species of Concern | | | | | | | | | | | | | | |
| pH - SU | | S.V. 6.0 - 9.0 | X | X | * | | | | | X | * | | | |
| Dissolved Oxygen - mg/l | | S.V. ≥ 3.0 | X | | * | | X | | | X | | | | |
| Total Ammonia (as N) - mg/l | | b | | | * | | | | | | | | | |
| E coli - No./100 ml | | AGM ≤ 630 126 S.V. 576 | | | | | * | | | | | | | |

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

^a Refer to NAC 445A.122 and section 223 of this regulation for beneficial use terminology.

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

Sec. 9. *NAC445A.2035 (445A.127):: The limits of this table apply to the body of water known as Murray Creek from Crawford Street to the south line of section 35, T. 17 N., R. 63 E., M.D.B. & M. Murray Creek is located in White Pine County.*

STANDARDS OF WATER QUALITY
Murray Creek

| PARAMETER | REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY | WATER QUALITY STANDARDS FOR BENEFICIAL USES | Beneficial Use ^a | | | | | | | | | | | |
|--|---|---|-----------------------------|------------|---------|---------|------------|-----------|------------|----------|-----------|---------|-------|--|
| | | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | |
| <i>Beneficial Uses</i> | | | X | X | X | | X | | X | X | | | | |
| <i>Aquatic Life Species of Concern</i> | | | | | | | | | | | | | | |
| <i>pH - SU</i> | | <i>S.V. 6.0 - 9.0</i> | X | X | * | | | | | X | * | | | |
| <i>Dissolved Oxygen - mg/l</i> | | <i>S.V. ≥ 3.0</i> | X | | * | | X | | | X | | | | |
| <i>Total Ammonia (as N) - mg/l</i> | | <i>b</i> | | | * | | | | | | | | | |
| <i>E coli - No./100 ml</i> | | <i>AGM ≤ 630</i> | | | | | * | | | | | | | |

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

a Refer to NAC 445A.122 and section 223 of this regulation for beneficial use terminology.