# PROPOSED REGULATION OF THE STATE ENVIRONMENTAL COMMISSION

## LCB File No. R130-12

Explanation – Matter in bold blue and italics is ***new***; matter in bold red and strikeout 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.

**P2012-09 WATER QUALITY STANDARDS REVISIONS FOR NORTH ANTELOPE CREEK**

**NAC 445A.1432 Humboldt Region: Designated beneficial uses.** (NRS 445A.425, 445A.520) The designated beneficial uses for select bodies of water within the Humboldt Region are prescribed in this section:

| Water Body Name | Segment Description | Beneficial Uses | | | | | | | | | | Aquatic Life Species of Concern | Water Quality Standard NAC Reference |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | |
| Humboldt River near Osino | From the upstream source of the main stem to Osino. | X | X | X | X | X | X | X | X | | | | Warm-water fishery | NAC 445A.1436 |
| Humboldt River at Palisade | From Osino to the Palisade Gage. | X | X | X | X | X | X | X | X | | | | Warm-water fishery | NAC 445A.1438 |
| Humboldt River at Battle Mountain | From the Palisade Gage to the Battle Mountain Gage. | X | X | X | X | X | X | X | X | | | | Warm-water fishery | NAC 445A.1442 |
| Humboldt River at State Highway 789 | From the Battle Mountain Gage to where State Highway 789 crosses the Humboldt River. | X | X | X | X | X | X | X | X | | | | Warm-water fishery | NAC 445A.1444 |
| Humboldt River at Imlay | From the Comus Gage to Imlay. | X | X | X | X | X | X | X | X | | | | Warm-water fishery | NAC 445A.1446 |
| Humboldt River at Woolsey | From Imlay to Woolsey. | X | X | X | X | X | X | X | X | | | | Warm-water fishery | NAC 445A.1448 |
| Humboldt River at Rodgers Dam | From Woolsey to Rodgers Dam. | X | X | X | X | X | X | X | X | | | | | NAC 445A.1452 |
| Humboldt River at the Humboldt Sink | From Rodgers Dam to the Humboldt Sink. | X | X | X | X | X | | X | X | | | | | NAC 445A.1454 |
| The Humboldt Sink | The entire sink. | X | X | X | | X | | X | X | | | | | NAC 445A.1455 |
| Humboldt River, North Fork and tributaries at the national forest boundary | From their origin in the Independence Mountain Range to the national forest boundary. | X | X | X | X | X | X | | X | | | | | NAC 445A.1456 |

| Water Body Name | Segment Description | Beneficial Uses | | | | | | | | | | | Aquatic Life Species of Concern | Water Quality Standard NAC Reference |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | | |
| Humboldt River, North Fork at Beaver Creek | From the national forest boundary to its confluence with Beaver Creek. | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1458 |
| Humboldt River, North Fork at the Humboldt River | From its confluence with Beaver Creek to its confluence with the Humboldt River. | X | X | X | X | X | X | X | X | | | | | NAC 445A.1462 |
| Humboldt River, South Fork and tributaries at Lee | From their origin to Lee. | 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. | 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 |
| Little Humboldt River, North Fork at the South Fork of the Little Humboldt River | From the national forest boundary to its confluence with the South Fork of the Little Humboldt River. | X | X | X | X | X | X | X | X | | | | | NAC 445A.1474 |
| Little Humboldt River, South Fork at the Elko-Humboldt county line | From its origin to the Elko-Humboldt county line. | X | X | X | X | X | X | | X | | | | | 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 |
| Mary's 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 | | | | | NAC 445A.1482 |
| Mary's River at the Humboldt River | From the east line of T. 42 N., R. 59 E., M.D.B. & M., to its confluence with the Humboldt River. | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1484 |
| Tabor Creek | From its origin to the east line of T. 40 N., R. 60 E., M.D.B. & M. | X | X | X | X | X | X | | X | | | | | NAC 445A.1486 |
| Maggie Creek Tributaries | From their origin to the point where they become Maggie Creek or the point of their confluence with Maggie Creek. | X | X | X | X | X | X | | X | | | | | NAC 445A.1488 |

| Water Body Name | Segment Description | Beneficial Uses | | | | | | | | | | | Aquatic Life Species of Concern | Water Quality Standard NAC Reference |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | | |
| Maggie Creek at Jack Creek | From where it is formed by the Maggie Creek tributaries to its confluence with Jack Creek. | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1492 |
| Maggie Creek at Soap Creek | From its confluence with Jack Creek to its confluence with Soap Creek. | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1494 |
| Maggie Creek at the Humboldt River | From its confluence with Soap Creek to its confluence with the Humboldt River. | X | X | X | X | X | X | X | X | | | | | NAC 445A.1496 |
| Secret Creek at the national forest boundary | From its origin to the national forest boundary. | X | X | X | X | X | X | | X | | | | | NAC 445A.1498 |
| Secret Creek at the Humboldt River | From the national forest boundary to its confluence with the Humboldt River. | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1502 |
| Lamoille Creek at the gaging station | From its origin to gaging station number 10-316500, located in the NE 1/4 of section 6, T. 32 N., R. 58 E., M.D.B. & M. | X | X | X | X | X | X | | X | | | | | NAC 445A.1504 |
| Lamoille Creek at the Humboldt River | From gaging station number 10-316500, located in the NE 1/4 of section 6, T. 32 N., R. 58 E., M.D.B. & M., to its confluence with the Humboldt River. | X | X | X | X | X | X | X | X | | | | | NAC 445A.1506 |
| J.D. Ponds | The entire area. | X | X | X | X | X | X | X | X | | | | | NAC 445A.1508 |
| Denay Creek at Tonkin Reservoir | From its origin to Tonkin Reservoir. | X | X | X | X | X | X | | X | | | | | NAC 445A.1512 |
| Tonkin Reservoir | The entire reservoir. | X | X | X | X | X | X | | X | | | | | NAC 445A.1514 |
| Denay Creek below Tonkin Reservoir | Below Tonkin Reservoir. | X | X | X | X | X | X | X | X | | | | | NAC 445A.1516 |
| Rock Creek at Squaw Valley Ranch | From its origin to Squaw Valley Ranch. | X | X | X | X | X | X | | X | | | | | NAC 445A.1518 |
| Rock Creek below Squaw Valley Ranch | Below Squaw Valley Ranch. | X | X | X | X | X | X | X | X | | | | | NAC 445A.1522 |
| Willow Creek at Willow Creek Reservoir | From its origin to Willow Creek Reservoir. | X | X | X | X | X | X | | X | | | | | NAC 445A.1524 |
| Willow Creek Reservoir | The entire reservoir. | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1526 |
| ***North Antelope Creek at Antelope Creek*** | ***From its origin to Antelope Creek*** | ***X*** | | ***X*** | ***X*** | ***X*** | | ***X*** | ***X*** | | | | | ***NAC 445A.1527*** |

| Water Body Name | Segment Description | Beneficial Uses | | | | | | | | | | | Aquatic Life Species of Concern | Water Quality Standard NAC Reference |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | | |
| Pole Creek | From its origin to the point of diversion of the Golconda water supply, near the north line of section 13, T. 35 N., R. 39 E., M.D.B. & M. | X | X | X | X | X | X | | X | | | | | NAC 445A.1528 |
| Water Canyon Creek | From its origin to the point of diversion of the Winnemucca municipal water supply, near the west line of section 12, T. 35 N., R. 38 E., M.D.B. & M. | X | X | X | X | X | X | | X | | | | | NAC 445A.1532 |
| Martin Creek at the national forest boundary | From its origin to the national forest boundary. | X | X | X | X | X | X | | X | | | | | NAC 445A.1534 |
| Martin Creek below the national forest boundary | From the national forest boundary to the first diversion in T. 42 N., R. 40 E., M.D.B. & M. | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1536 |
| Dutch John Creek | The entire length. | X | X | X | X | X | X | | X | | | | | NAC 445A.1538 |
| Huntington Creek at the White Pine-Elko county line | From its origin to the White Pine-Elko county line. | X | X | X | X | X | X | | X | | | | | NAC 445A.1542 |
| Huntington Creek at Smith Creek | From the White Pine-Elko county line to its confluence with Smith Creek. | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1544 |
| Huntington Creek at the South Fork of the Humboldt River | From its confluence with Smith Creek to its confluence with the South Fork of the Humboldt River. | X | X | X | X | X | X | X | X | | | | | NAC 445A.1546 |
| Green Mountain Creek at the national forest boundary | From its origin to the national forest boundary. | X | X | X | X | X | X | | X | | | | | NAC 445A.1548 |
| Green Mountain Creek at Corral Creek | From the national forest boundary to its confluence with Corral Creek. | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1552 |
| Toyn Creek | From its origin to the national forest boundary. | X | X | X | X | X | X | | X | | | | | NAC 445A.1554 |
| Reese Creek at Indian Creek | From its origin to its confluence with Indian Creek. | X | X | X | X | X | X | | X | | | | | NAC 445A.1556 |
| Reese River at State Route 722 | From its confluence with Indian Creek to State Route 722 (old U.S. Highway 50). | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1558 |
| Reese River below State Route 722 | North of State Route 722 (old U.S. Highway 50). | X | X | X | X | X | X | X | X | | | | | NAC 445A.1562 |
| San Juan Creek | From its origin to the national forest boundary. | X | X | X | X | X | X | | X | | | | | NAC 445A.1564 |

| Water Body Name | Segment Description | Beneficial Uses | | | | | | | | | | | Aquatic Life Species of Concern | Water Quality Standard NAC Reference |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh | | |
| Big Creek at the forest service campground | From its origin to the east boundary of the United States Forest Service's Big Creek Campground. | X | X | X | X | X | X | | X | | | | | NAC 445A.1566 |
| Big Creek below the forest service campground | From the east boundary of the United States Forest Service's Big Creek Campground to the first diversion dam, near the west line of section 4, T. 17 N., R. 43 E., M.D.B. & M. | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1568 |
| Mill Creek | From its origin to the first point of diversion, near the south line of section 22, T. 29 N., R. 44 E., M.D.B. & M. | X | X | X | X | X | X | | X | | | | | NAC 445A.1572 |
| Lewis Creek | From its origin to the first point of diversion, near the center of section 23, T. 30 N., R. 45 E., M.D.B. & M. | X | X | X | X | X | X | | X | | | | | NAC 445A.1574 |
| Iowa Canyon Reservoir | The entire reservoir. | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1576 |
| Starr Creek | From the confluence of Ackler and Herder Creeks to its confluence with the Humboldt River. | X | X | X | X | X | X | X | X | | | | Trout | NAC 445A.1578 |

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|---|---|
| Irrigation | Irrigation |
| Livestock | Watering of livestock |
| Contact | Recreation involving contact with the water |
| Noncontact | Recreation not involving contact with the water |
| Industrial | Industrial supply |
| Municipal | Municipal or domestic supply, or both |
| Wildlife | Propagation of wildlife |
| Aquatic | Propagation of aquatic life |
| Aesthetic | Waters of extraordinary ecological or aesthetic value |
| Enhance | Enhancement of water quality |
| Marsh | Maintenance of a freshwater marsh |

***NAC 445A.1527 Humboldt Region: North Antelope Creek at Antelope Creek (NRS 445A.425, 445A.520) The limits of this table apply to the body of water known as North Antelope Creek from its origin to Antelope Creek. This segment of North Antelope Creek is located in Elko County.***

| PARAMETER | REQUIREMENTS TO MAINTAIN EXISTING HIGHER QUALITY | WATER QUALITY STANDARDS FOR BENEFICIAL USES | Beneficial Usea | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Livestock | Irrigation | Aquatic | Contact | Noncontact | Municipal | Industrial | Wildlife | Aesthetic | Enhance | Marsh |
| Beneficial Uses | | | X | | X | X | X | | X | X | | | |
| Aquatic Life Species of Concern | | | | | | | | | | | | | |
| Temperature - °C | | S.V. ≤ 34.0 | | | * | X | | | | | | | |
| pH – SU | | S.V. 6.5 – 9.0 | X | | * | * | | | X | * | | | |
| Dissolved Oxygen - mg/l | | S.V. ≥ 5.0 | X | | * | X | X | | | X | | | |
| Total Phosphorous (as P) - mg/l | | S.V. ≤ 0.1 b | | | * | * | X | | | | | | |
| Nitrogen Species (as N) - mg/l | | Nitrate b | X | | * | | | | | X | | | |
| | | Nitrite b | X | | * | | | | | X | | | |
| | | Total Nitrogen b | | | * | X | X | | | X | | | |
| Total Ammonia (as N) - mg/l | | c | | | * | | | | | | | | |
| Total Dissolved Solids - mg/l | | S.V. ≤ 3000 | * | | | | | | | | | | |
| Chloride - mg/l | | 1-hr. ≤ 230d<br>Avg. ≤ 860<br>96-hr. Avg. | X | | * | | | | | X | | | |
| Suspended Solids - mg/l | | S.V. ≤ 80 | | | * | | | | | | | | |
| Turbidity – NTU | | S.V. ≤ 50 | | | * | | | | | | | | |
| E coli - No./100 ml | | A.G.M. ≤ 126<br>S.V. ≤ 576 | | | | * | X | | | | | | |
| Fecal Coliform - No./100 ml | | ≤ 1000e | X | | | | X | | | * | | | |

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

[a.] ***Refer to NAC 445A.122 and 445A.2142 of this regulation for beneficial use terminology.***
[b.] ***The water must not contain nutrient concentrations from a source other than a natural source which cause the growth of algae or aquatic plants in amounts that interfere with any beneficial uses of the water.***
[c.] ***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.***
[e.] ***Must not exceed a geometric mean of 1000 per 100 milliliters based on a minimum of 5 samples during any 30-day period.***