Total Aluminum, Animas River at Durango, CO: 2002-2017

- EPA Surface Water Recreational Screening Level (170,000 µg/L)*
- CDPHE Acute Standard for Aquatic Life, based on average hardness~
- CDPHE Chronic Standard for Aquatic Life, based on average hardness~
- Historic River Watch samples (2002-2014)
- 2015 Post-Gold King Mine release samples (8/10/15 - 10/26/15)
- 2016 samples (Feb-Nov)
- 2017 samples (March-Aug)
- Samples with concentrations below Method Detection Limit

* The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of water per day, from the Animas, orally, for 64 days each year for a total of 36 years.
~ Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Standards vary with water hardness and are plotted here using an average water hardness of the Animas River at this location, 200 mg/L.

Nota: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015-17 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Dissolved Aluminum, Animas River at Durango, CO: 2002-2017

- EPA Surface Water Recreational Screening Level (170,000 µg/L)*
- Historic River Watch samples (2002-2014)
- 2015 Post-Gold King Mine release samples (8/10/15 - 10/26/15)
- 2016 samples (Feb-Nov)
- 2017 samples (March-Aug)
- Samples with concentrations below Method Detection Limit

* The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2 L of water per day, from the Animas, orally, for 64 days each year for a total of 30 years.

Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015-17 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Total Copper, Animas River at Durango, CO: 2002-2017

- **EPA Surface Water Recreational Screening Level (6,700 μg/L)**
- **CDPHE Domestic Water Supply Maximum Contaminant Level 30-Day Exposure (1,000 μg/L)**
- **CDPHE Agriculture Standard 30-Day Exposure (200 μg/L)**

- **Historic River Watch samples (2002-2014)**
- **2015 Gold King Mine release samples (8/6/15 - 8/9/15)**
- **2015 Post-Gold King Mine release samples (8/10/15 - 10/26/15)**
- **2016 samples (Feb-Nov)**
- **2017 samples**
- **Samples with concentrations below Method Detection Limit**

* The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of water per day, from the Animas, orally, for 64 days each year for a total of 30 years.

“Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34.

Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015-17 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Dissolved Copper, Animas River at Durango, CO: 2002-2017

- **EPA Surface Water Recreational Screening Level (6,700 μg/L)**
- **CDPHE Acute Standard for Aquatic Life, based on average hardness**
- **CDPHE Chronic Standard for Aquatic Life, based on average hardness**
- Historic River Watch samples (2002-2014)
- 2015 Post-Gold King Mine release samples (8/10/15 - 10/26/15)
- 2016 samples (Feb-Nov)
- 2017 samples (March-Aug)

*The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of water per day, from the Animas, orally, for 64 days each year for a total of 30 years.*

*Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Standards vary with water hardness and are plotted here using an average water hardness of the Animas River at this location, 268 mg/L.*

Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015-17 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Total Iron, Animas River at Durango, CO: 2002-2017

- **EPA Surface Water Recreational Screening Level (120,000 µg/L)**
- **CDPHE Chronic Standard for Aquatic Life (1,000 µg/L, Total)**
- Historic River Watch samples (2002-2014)
- 2015 Post-Gold King Mine release samples (8/10/15 - 10/26/15)
- 2016 samples (Feb-Nov)
- 2017 samples (March-Aug)
- Samples with concentrations below Method Detection Limit

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*The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of water per day, from the Animas, orally, for 64 days each year for a total of 30 years.*

*Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34.*

*Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015-17 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.*
Dissolved Iron, Animas River at Durango, CO: 2002-2017

- EPA Surface Water Recreational Screening Level (120,000 µg/L)*
- CDPHE Domestic Water Supply Maximum Contaminant Level 30-Day Exposure (300 µg/L, Dissolved)**
- Historic River Watch samples (2002-2014)
- 2015 Post-Gold King Mine release samples (8/10/15 - 10/26/15)
- 2016 samples (Feb-Nov)
- 2017 samples (March-Aug)
- Samples with concentrations below Method Detection Limit

* The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of water per day, from the Animas, orally, for 64 days each year for a total of 30 years.

**Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34.

Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015-17 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Total Lead, Animas River at Durango, CO: 2002-2017

- EPA Surface Water Recreational Screening Level (200 μg/L)*
- CDPHE Agriculture Standard 30-Day Exposure (100 μg/L)^~
- CDPHE Domestic Water Supply Maximum Contaminant Level 1-Day Exposure (50 μg/L)^~
- Historic River Watch samples (2002-2014)
- 2015 Post-Gold King Mine release samples (8/10/15 - 10/26/15)
- 2016 samples (Feb-Nov)
- 2017 samples (March-Aug)
- Samples with concentrations below Method Detection Limit

* The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of water per day, from the Animas, orally, for 64 days each year for a total of 30 years.
^~Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34.
Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015-17 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
**Dissolved Lead, Animas River at Durango, CO: 2002-2017**

- **EPA Surface Water Recreational Screening Level** (200 μg/L)
- **CDPHE Acute Standard for Aquatic Life**, based on average hardness
- **CDPHE Chronic Standard for Aquatic Life**, based on average hardness
- **Historic River Watch samples** (2002-2014)
- **2015 Gold King Mine release samples** (8/6/15 - 8/9/15)
- **2015 Post-Gold King Mine release samples** (8/10/15 - 10/26/15)
- **2016 samples (Feb-Nov)**
- **2017 samples (March-Aug)**
- **Samples with concentrations below Method Detection Limit**

*The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of water per day, from the Animas, orally, for 64 days each year for a total of 30 years.*

"Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Standards vary with water hardness and are plotted here using an average water hardness of the Animas River at this location, 208 mg/L."

Note: 2002 - 2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015-17 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.
Dissolved Zinc, Animas River at Durango, CO: 2002-2017

- EPA Surface Water Recreational Screening Level (50,000 μg/L)*
- CDPHE Acute Standard for Aquatic Life, based on average hardness~
- CDPHE Chronic Standard for Aquatic Life, based on average hardness~
- Historic River Watch samples (2002-2014)
- 2015 Post-Gold King Mine release samples (8/10/15 - 10/26/15)
- 2016 samples (Feb-Nov)
- 2017 samples (March-Aug)
- Samples with concentrations below Method Detection Limit

*The recreational screening level represents the level at which no adverse health effects are expected to occur in humans consuming 2L of water per day, from the Animas, orally, for 64 days each year for a total of 30 years.

~Colorado Department of Public Health and the Environment (CDPHE) standards based on Colorado surface water quality classifications and Reg. 31 and 34. Standards vary with water hardness and are plotted here using an average water hardness of the Animas River at this location, 208 mg/L.

Note: 2003-2014 data is River Watch data from the Animas River at the fish hatchery in Durango, CO. 2015-17 data is Mountain Studies Institute data from the Animas River at Rotary Park in Durango, CO.