Final California 2010 Integrated Report (303(d) List/305(b) Report)

Supporting Information

Regional Board 1 - North Coast Region

Water Body Name: Trinity River HU, Lower Trinity HA CAR1061103419990607150231 Water Body ID:

River & Stream Water Body Type:

DECISION ID 12320 Region 1

Trinity River HU, Lower Trinity HA

Pollutant: Aluminum

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final **New Decision**

Listing Decision:

Revision Status Revised Impairment from Pollutant Pollutant

or Pollution:

Conclusion: This pollutant is being considered for placement on the Section 303(d) List under

Section 3.1 of the Listing Policy. Under Section 3.1, a single line of evidence is necessary to assess listing status. One line of evidence is available in the administrative record to assess this pollutant. None of the 25 aluminum samples exceed the water quality objective. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is based on the staff findings that: (1) The data used satisfies the data quality requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (3) None of the 25 samples exceeded the aluminum objective, and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not

met.

RWQCB Board Staff

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

SWRCB Board Staff

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

USEPA Action (if applicable):

Line of Evidence (LOE) for Decision ID 12320, Aluminum

Region 1

Trinity River HU, Lower Trinity HA

LOE ID: 25392

Pollutant: Aluminum Pollutant-Water LOE Subgroup:

Water Matrix: Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 25 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 25 aluminum samples collected from the Trinity River exceed the

objective. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the SWAMP Summary Report for the North Coast Region for Years 2000-2006

(NCRWQCB 2008).

Data Reference: Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007): The Maximum Contaminant Level for

aluminum is 1.0 mg/l (1,000 ug/L).

Objective/Criterion Reference: Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)

Evaluation Guideline: Guideline Reference:

Spatial Representation: Samples were collected from the mainstem Trinity River at 2 locations as

follows: (1) at Hoopa (SWAMP Station ID TRINHP), and (2) at Weitchpec above the confluence with the Klamath River (SWAMP Station ID TRINWP).

Samples were collected from well-mixed flows in glides or riffles.

Temporal Representation: At the Hoopa site, samples were collected from February 2002 to June 2003.

At the Weitchpec site, samples were collected from March 2001 to June 2005. Site visits corresponded to fall, winter, spring and early summer seasonal

conditions.

Environmental Conditions: There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (Puckett 2002).

QAPP Information Reference(s): Quality Assurance Management Plan for the State of California's Surface

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

DECISION ID 15732 Region 1

Trinity River HU, Lower Trinity HA

Pollutant: Ammonia as Nitrogen

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final New Decision

Listing Decision:

QAPP Information:

Revision Status Revised Impairment from Pollutant Pollutant

or Pollution:

Conclusion: This pollutant is being considered for placement on the Section 303(d) List under

Section 3.1 of the Listing Policy. Under Section 3.1, a single line of evidence is necessary to assess listing status. One line of evidence is available in the

administrative record to assess this pollutant. None of the 28 ammonia as nitrogen samples exceed the objective. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the Section 303(d) List in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is

based on the staff findings that: (1) The data used satisfies the data quality requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data

quantity requirements of Section 6.1.5 of the Policy. (3) None of the 28 samples exceed

the water quality objective, and this does not exceed the allowable frequency listed in Table 3.1 of the Listing Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

RWQCB Board Staff

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

SWRCB Board Staff

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be

approved by the State Board.

USEPA Action (if applicable):

Line of Evidence (LOE) for Decision ID 15732, Ammonia as Nitrogen Trinity River HU, Lower Trinity HA

Region 1

LOE ID: 26303

Pollutant: Ammonia as Nitrogen LOE Subgroup: Pollutant-Water

Matrix: Water Fraction: Total

Beneficial Use: Cold Freshwater Habitat

Aquatic Life Use: Fish Migration | Fish Spawning | Freshwater Replenishment | Preservation of

Rare & Endangered Species | Wildlife Habitat

Number of Samples: 28 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 28 ammonia as nitrogen samples collected from the Trinity River

exceed the objective. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the SWAMP Summary Report for the North Coast Region for Years 2000-

2006 (NCRWQCB 2008).

Data Reference: Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007): All waters shall be maintained free of

toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in human, plant, animal, or aquatic life.

Objective/Criterion Reference: Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)

Evaluation Guideline: Per the National Recommended Water Quality Criteria (USEPA 2006): The 1-

hour average concentration (acute criterion or CMC) of total ammonia nitrogen (in mg N/L) for freshwater where salmonid fish are present, which is not to be exceeded more than once every three years on average, is calculated using the following equation: $CMC=0.275/(1+10^{\circ}(7.204 - pH)) +$

39.0/(1+10^(pH - 7.204)).

Guideline Reference: National Recommended Water Quality Criteria. United States Environmental

Protection Agency. Office of Water. Office of Science and Technology. 4304T

The Blue Book

Spatial Representation: Samples were collected from the mainstem Trinity River at 2 locations as

follows: (1) at Hoopa (SWAMP Station ID 106TRINHP), and (2) at Weitchpec

above the confluence with the Klamath River (SWAMP Station ID

106TRINWP). Samples were collected from well-mixed flows in glides or

riffles.

Temporal Representation: At the Hoopa site, samples were collected from February 2002 to June 2003.

At the Weitchpec site, samples were collected from March 2001 to June 2005. Site visits corresponded to fall, winter, spring and early summer seasonal

conditions.

Environmental Conditions: There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

Quality control was conducted in accordance with the SWAMP Quality.

QAPP Information: Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (Puckett 2002).

QAPP Information Reference(s): Quality Assurance Management Plan for the State of California's Surface

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

DECISION ID 10642 Region 1

Trinity River HU, Lower Trinity HA

Pollutant: Arsenic | Cadmium | Chromium (total) | Copper | Lead | Mercury | Nickel |

Selenium | Silver | Zinc

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final

Final New Decision

Listing Decision:

Revision Status Revised Impairment from Pollutant Pollutant

or Pollution:

Conclusion: This pollutant is being considered for placement on the Section 303(d) List under

Section 3.1 of the Listing Policy. Under Section 3.1, a single line of evidence is necessary to assess listing status. One line of evidence is available in the

administrative record to assess this pollutant. None of the 249 metals samples exceed the water quality objective. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is

based on the staff findings that: (1) The data used satisfies the data quality requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (3) None of the 249 samples exceeded the metal objectives, and this does not exceed the allowable frequency of 22 per the binomial distribution described in Section 3.1 of the Listing Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available

indicating that standards are not met.

RWQCB Board Staff

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

SWRCB Board Staff

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

USEPA Action (if applicable):

Line of Evidence (LOE) for Decision ID 10642, Multiple Pollutants Trinity River HU, Lower Trinity HA

Region 1

LOE ID: 21515

Pollutant:

Arsenic | Cadmium | Chromium (total) | Copper | Lead | Mercury | Nickel |

Selenium | Silver | Zinc

LOE Subgroup: Pollutant-Water

Matrix: Water Fraction: Total

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 249 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 249 metals samples collected in the mainstem Trinity River

exceed the objectives. For each of the 10 metal parameters, there were 9-10 samples for each collected at the Hoopa site and 15 samples for each collected at the Weitchpec site. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the SWAMP Summary Report for the North Coast Region for Years

2000-2006 (NCRWQCB 2008).

Data Reference: Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007): Arsenic objective is 0.05 mg/L.

Cadmium objective is 0.01 mg/L. Chromium objective is 0.05 mg/L. Lead objective is 0.05 mg/L. Mercury objective is 0.002 mg/L. Selenium objective is 0.01 mg/L. Silver objective is 0.05 mg/L. Per 22 CCR 64431: Nickel maximum contaminant level is 0.1 mg/L. Per 22 CCR 64449: Copper secondary

maximum contaminant level is 1.0 mg/L. Zinc secondary maximum

contaminant level is 5.0 mg/L.

Objective/Criterion Reference: Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)

Title 22. Division 4. Chapter 15. Sections 64400 et seq. California Code of

Regulations

Evaluation Guideline: Guideline Reference:

Spatial Representation: Samples were collected from the mainstem Trinity River at 2 locations as

follows: (1) at Hoopa (SWAMP Station ID 106TRINHP), and (2) at Weitchpec

above the confluence with the Klamath River (SWAMP Station ID 106TRINWP). Samples were collected from well-mixed flows in glides or

riffles.

Temporal Representation: At the Hoopa site, samples were collected from February 2002 to June 2003.

At the Weitchpec site, samples were collected from March 2001 to June 2005. Site visits corresponded to fall, winter, spring and early summer seasonal

conditions.

Environmental Conditions: There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

QAPP Information: Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (SWAMP 2002).

QAPP Information Reference(s): Quality Assurance Management Plan for the State of California's Surface

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

DECISION ID 12441 Region 1

Trinity River HU, Lower Trinity HA

Pollutant: Chloride

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

New Decision

Last Listing Cycle's Final

Listing Decision:

Revision Status Revised **Impairment from Pollutant** Pollutant

or Pollution:

Conclusion: This pollutant is being considered for placement on the Section 303(d) List under

Section 3.2 of the Listing Policy. Under Section 3.2, a single line of evidence is necessary to assess listing status. One line of evidence is available in the

administrative record to assess this pollutant. None of the 28 chloride samples exceed the evaluation guideline. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is based on the staff findings that: (1) The data used satisfies the data quality

requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (3) None of the 28 samples exceeded the chloride evaluation guideline used to interpret the water quality objective, and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and

information are available indicating that standards are not met.

RWQCB Board Staff

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

SWRCB Board Staff

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be approved by the State Board.

USEPA Action (if applicable):

Line of Evidence (LOE) for Decision ID 12441, Chloride Trinity River HU, Lower Trinity HA Region 1

LOF ID: 25419

Pollutant: Chloride
LOE Subgroup: Pollutant-Water
Matrix: Water

Fraction: Not Recorded

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 28 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 28 chloride samples collected in the mainstem Trinity River

exceed the evaluation guideline. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the SWAMP Summary Report for the North Coast Region for Years

2000-2006 (NCRWQCB 2008).

Data Reference: Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007): Waters shall not contain taste- or odor

-producing substances in concentrations that impart undesirable tastes or

odors to fish flesh or other edible products of aquatic origin, or that cause

nuisance or adversely affect beneficial uses.

Objective/Criterion Reference: Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)

Evaluation Guideline: Per 22 CCR 64449: The recommended Secondary Maximum Contaminant

Level for chloride is 250 mg/L.

Guideline Reference: <u>Title 22. Division 4. Chapter 15. Sections 64400 et seq. California Code of</u>

Regulations

Spatial Representation: Samples were collected from the mainstem Trinity River at 2 locations as

follows: (1) at Hoopa (SWAMP Station ID 106TRINHP), and (2) at Weitchpec

above the confluence with the Klamath River (SWAMP Station ID 106TRINWP). Samples were collected from well-mixed flows in glides or

iffles.

Temporal Representation: At the Hoopa site, samples were collected from February 2002 to June 2003.

At the Weitchpec site, samples were collected from March 2001 to June 2005. Site visits corresponded to fall, winter, spring and early summer seasonal

conditions.

Environmental Conditions: There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

QAPP Information: Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (SWAMP 2002).

QAPP Information Reference(s): Quality Assurance Management Plan for the State of California's Surface

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

DECISION ID 13975 Region 1

Trinity River HU, Lower Trinity HA

Pollutant: Cyanobacteria hepatotoxic microcystins
Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final New Decision

Listing Decision:

Revision Status Revised Impairment from Pollutant Pollutant

or Pollution:

Conclusion: This pollutant is being considered for placement on the Section 303(d) List under

Section 3.11 of the Listing Policy. One line of evidence is available in the administrative

record to assess this pollutant.

Microcystins are a class of toxic chemicals produced by some strains of the cyanobacteria Microcystis aeruginosa that are released into waters when cyanobacterial cells die or cell membranes degrade. These chemicals are a human health risk, capable of inducing skin rashes, sore throat, oral blistering, nausea,

gastroenteritis, fever, and liver toxicity (WHO 1999). Routes of exposure for human health include dermal contact, ingestion of water, and ingestion of tissue (fish or shellfish). For animals, exposures of concern include ingestion of water and tissue.

Based on the readily available data and information, the situation-specific weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the Section 303(d) List in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is based on the staff findings that:

(1) None of the 6 water column microcystin toxin samples exceed the evaluation guideline used to interpret the water quality objective.

(2) The data used satisfies the data quality requirements of Section 6.1.4 of the Policy.

(3) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

RWQCB Board Staff

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

SWRCB Board Staff

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be

approved by the State Board.

USEPA Action (if applicable):

Line of Evidence (LOE) for Decision ID 13975, Cyanobacteria hepatotoxic microcystins

Region 1

Trinity River HU, Lower Trinity HA

LOE ID: 26041

Pollutant: Cyanobacteria hepatotoxic microcystins

LOE Subgroup: Pollutant-Water

Matrix: Water Fraction: None

Beneficial Use: Water Contact Recreation

Number of Samples: 6 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 6 samples analyzed for Microcystis cells collected in the

mainstem Trinity River exceed the evaluation guideline. Microcystis cell concentrations were all 0 cells/ml. Samples were collected by the Yurok Tribal Environmental Program. Data are summarized in the "Final 2007 Klamath

River Blue-Green Algae Summary Report" (Fetcho 2008).

Data Reference: Final 2007 Klamath River Blue-Green Algae Summary Report. Yurok Tribe

Environmental Program

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007): All water shall be maintained free of

toxic substances in concentrations that are toxic to, or that produce detrimental physiological responses in human, plant, animal, or aquatic life. Compliance with this objective will be determined by use of indicator organisms, analyses of species diversity, population density, growth

anomalies, bioassays of appropriate duration, or other appropriate methods

as specified by the Regional Water Board.

Objective/Criterion Reference: Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)

Evaluation Guideline: Per the Blue Green Algae Work Group (2008): The guideline for Microcystis

cells is 40,000 cells/ml if cell populations are dominated by Microcystis and Planktothrix to protect the recreational exposure of a child. This cell count evaluation guideline is a strong indicator of potential toxicity associated with

the toxin microsystin.

Guideline Reference: Cyanobacteria in California Recreational Water Bodies. Providing Voluntary

Guidance about Harmful Algal Blooms, Their Monitoring, and Public Notification. Draft. September 2008. Blue Green Algae Work Group of the State Water Resources Control Board. Department of Public Health, and

Office of Environmental Health and Hazard Assessment

Spatial Representation: Samples were collected in the mainstern Trinity River above the confluence

with the Klamath River at river mile 0.5 (Site TR).

Temporal Representation: Grab samples were collected in the Trinity River on 6 occasions between May

30, 2007 and October 15, 2007.

Environmental Conditions: There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

QAPP Information: Samples were collected and analyzed according to the procedures described

in the "Lower Klamath River Nutrient, Periphyton, Phytoplankton and Algal Toxin Sampling Analysis Plan (SAP)" (Yurok 2008) and the "Final 2007 Klamath River Blue-Green Algae Summary Report" (Fetcho 2008).

QAPP Information Reference(s): Lower Klamath River Nutrient, Periphyton, Phytoplankton, and Algal Toxin

Sampling Analysis Plan (SAP). June 2008. Prepared with assistance from

Kier Associates

Final 2007 Klamath River Blue-Green Algae Summary Report. Yurok Tribe

Environmental Program

DECISION ID 10022 Region 1

Trinity River HU, Lower Trinity HA

Pollutant: Specific Conductivity

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final New Decision

Listing Decision:

Revision Status Revised Impairment from Pollutant Pollutant

or Pollution:

Conclusion: This pollutant is being considered for placement on the Section 303(d) list under

Section 3.2 of the Listing Policy. Under Section 3.2 a single line of evidence is necessary to assess listing status. One line of evidence is available in the administrative record to assess this pollutant. None of the 29 specific conductivity

samples exceed the water quality objective. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this water segment-pollutant combination on the section 303(d) list in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This

conclusion is based on the staff findings that: (1) The data used satisfies the data quality requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (3) None of the 29 samples exceed the specific conductivity objective, and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not

met.

RWQCB Board Staff

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

SWRCB Board Staff

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be

approved by the State Board.

USEPA Action (if applicable):

Line of Evidence (LOE) for Decision ID 10022, Specific Conductivity Trinity River HU, Lower Trinity HA Region 1

LOE ID: 21229

Pollutant: Specific Conductivity LOE Subgroup: Pollutant-Water

Matrix: Water Fraction: None

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 29 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 29 specific conductivity samples collected from the Trinity River

exceed the objective. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in the SWAMP Summary Report for the North Coast Region for Years 2000-

2006 (NCRWQCB 2008).

Data Reference: Surface Water Ambient Monitoring Program (SWAMP). Summary Report for

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007): The 90% upper limit specific

conductance objective at 77 F is 275 micromhos (or mS/cm2). The 50% upper limit specific conductance objective at 77 F is 200 micromhos (or mS/cm2). The 90% and 50% upper limits represent the 90/50 percentile values for a calendar year. 90% or 50% or more of the values must be less than or equal

to the upper limit.

Objective/Criterion Reference: Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)

Evaluation Guideline: Guideline Reference:

Spatial Representation: Samples were collected from the mainstem Trinity River at 2 locations as

follows: (1) at Hoopa (SWAMP Station ID TRINHP), and (2) at Weitchpec above the confluence with the Klamath River (SWAMP Station ID TRINWP).

Samples were collected from well-mixed flows in glides or riffles.

Temporal Representation: At the Hoopa site, samples were collected from February 2002 to June 2003.

At the Weitchpec site, samples were collected from March 2001 to June 2005. Site visits corresponded to fall, winter, spring and early summer seasonal

conditions.

Environmental Conditions: There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

QAPP Information: Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (Puckett 2002).

QAPP Information Reference(s): Quality Assurance Management Plan for the State of California's Surface

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

DECISION ID 12511 Region 1

Trinity River HU, Lower Trinity HA

Pollutant: Sulfates

Final Listing Decision: Do Not List on 303(d) list (TMDL required list)

Last Listing Cycle's Final New Decision

Listing Decision:

Revision Status Revised Impairment from Pollutant Pollutant

or Pollution:

Conclusion: This pollutant is being considered for placement on the Section 303(d) List under

Section 3.2 of the Listing Policy. Under Section 3.2, a single line of evidence is

necessary to assess listing status. One line of evidence is available in the

administrative record to assess this pollutant. None of the 28 sulfate samples exceed the evaluation guideline. Based on the readily available data and information, the weight of evidence indicates that there is sufficient justification against placing this

water segment-pollutant combination on the Section 303(d) List in the Water Quality Limited Segments category (i.e., sufficient justification to not list). This conclusion is based on the staff findings that: (1) The data used satisfies the data quality requirements of Section 6.1.4 of the Policy. (2) The data used satisfies the data quantity requirements of Section 6.1.5 of the Policy. (3) None of the 28 samples exceed the sulfate evaluation guideline used to interpret the water quality objective, and this does not exceed the allowable frequency listed in Table 3.2 of the Listing Policy. (4) Pursuant to Section 3.11 of the Listing Policy, no additional data and information are available indicating that standards are not met.

RWQCB Board Staff

Decision:

After review of the available data and information, North Coast Regional Water Board staff concludes that the water body-pollutant combination should not be placed on the Section 303(d) List because applicable water quality standards are being attained.

SWRCB Board Staff

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be

approved by the State Board.

USEPA Action (if applicable):

Line of Evidence (LOE) for Decision ID 12511, Sulfates Trinity River HU, Lower Trinity HA

Region 1

LOE ID: 25528

Pollutant: Sulfates

LOE Subgroup: Pollutant-Water

Matrix: Water

Fraction: Not Recorded

Beneficial Use: Municipal & Domestic Supply

Number of Samples: 28 Number of Exceedances: 0

Data and Information Type: PHYSICAL/CHEMICAL MONITORING

Data Used to Assess Water Quality: None of the 28 sulfate samples collected in the mainstem Trinity River exceed

the evaluation guideline. The samples were collected as part of the Surface Water Ambient Water Monitoring Program (SWAMP). The data are found in

the 5-Year Monitoring Report (NCRWQCB 2008).

Data Reference: <u>Surface Water Ambient Monitoring Program (SWAMP). Summary Report for</u>

the North Coast Region (RWQCB-1) for years 2000-2006. North Coast

Regional Water Quality Control Board. March 2008

Water Quality Objective/Criterion: Per the Basin Plan (NCRWQCB 2007, p. 3-3.00): Waters shall not contain

taste- or odor-producing substances in concentrations that impart undesirable tastes or odors to fish flesh or other edible products of aquatic origin, or that

cause nuisance or adversely affect beneficial uses.

Objective/Criterion Reference: Water Quality Control Plan (Basin Plan) - North Coast Region (Region 1)

Evaluation Guideline: Per 22 CCR 64449 (Table 64449-B): The recommended secondary maximum

contaminant level for sulfate is 250 mg/L.

Guideline Reference: Title 22. Division 4. Chapter 15. Sections 64400 et seg. California Code of

Regulations

Spatial Representation: Samples were collected from the mainstem Trinity River at 2 locations as

follows: (1) at Hoopa (SWAMP Station ID 106TRINHP), and (2) at Weitchpec

above the confluence with the Klamath River (SWAMP Station ID

106TRINWP). Samples were collected from well-mixed flows in glides or

riffles.

Temporal Representation: At the Hoopa site, samples were collected from February 2002 to June 2003.

At the Weitchpec site, samples were collected from March 2001 to June 2005. Site visits corresponded to fall, winter, spring and early summer seasonal

conditions.

Environmental Conditions: There are no known environmental conditions (e.g., seasonality, land use

practices, fire events, storms, etc.) that are related to these data.

QAPP Information: Quality control was conducted in accordance with the SWAMP Quality

Assurance Management Plan (SWAMP 2002).

QAPP Information Reference(s): Quality Assurance Management Plan for the State of California's Surface

Water Ambient Monitoring Program. Sacramento, CA. State Water Resources

Control Board. SWAMP. December 2002 (1st version)

DECISION ID 6924 Region 1

Trinity River HU, Lower Trinity HA

Pollutant: Sedimentation/Siltation

Final Listing Decision: Last Listing Cycle's Final

List on 303(d) list (being addressed by USEPA approved TMDL)
List on 303(d) list (being addressed by USEPA approved TMDL)(2006)

Listing Decision: Revision Status

Original

Sources:

Channel Erosion | Dam Construction | Drainage/Filling Of Wetlands | Erosion/Siltation | Flow Regulation/Modification | Habitat Modification | Harvesting, Restoration, Residue Management | Hydromodification | Logging Road Construction/Maintenance | Mine Tailings | Natural Sources | Removal of Riparian Vegetation | Resource Extraction | Silvicultural Point Sources | Silviculture | Streambank Modification/Destabilization |

Surface Mining | Upstream Impoundment

TMDL Name: Trinity River Sediment

TMDL Project Code: Date TMDL Approved by 505 12/20/2001

USEPA:

Impairment from Pollutant Pollutant

or Pollution:

Conclusion: This pollutant is being considered for listing under section 2.2 of the Listing Policy.

Under this section of the Policy, a minimum of one line of evidence is needed to assess

listing status.

US EPA was the lead agency for development of the technical TMDL for the Trinity River TMDL. US EPA established the Trinity River Technical TMDL for Sediment on

December 20, 2001.

Based on the readily available information, the weight of evidence indicates that there is sufficient justification in favor of placing this water segment-pollutant combination in the Water Quality Limited Segments Being Addressed portion of the section 303(d) list.

RWQCB Board Staff

Decision:

This is a decision made by the State Water Resources Control Board and approved by the USEPA in 2006. No new data were assessed by the Regional Board for 2008. The

decision has not changed.

SWRCB Board Staff

Decision:

After review of this Regional Board decision, SWRCB staff recommend the decision be

approved by the State Board.

USEPA Action (if applicable):

Line of Evidence (LOE) for Decision ID 6924, Sedimentation/Siltation Trinity River HU, Lower Trinity HA Region 1

LOE ID: 1669

Pollutant: Sedimentation/Siltation LOE Subgroup: Pollutant-Water

Matrix: Water Fraction: None

Beneficial Use: Cold Freshwater Habitat

Number of Samples: 0 Number of Exceedances: 0

Data and Information Type: Not Specified

Data Used to Assess Water Quality: Unspecified? This LOE is a placeholder to support a 303(d) listing decision

made prior to 2006.

Data Reference: Placeholder reference 2006 303(d)

Water Quality Objective/Criterion: Objective/Criterion Reference:

Evaluation Guideline: Guideline Reference:

Spatial Representation: Temporal Representation: Environmental Conditions:

QAPP Information: QA Info Missing

QAPP Information Reference(s):