

**Item 9 – LATE REVISION/ADDITION**

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LAHONTAN REGION**

**MEETING OF MARCH 11-12, 2015  
SOUTH LAKE TAHOE, CA**

**TMDL IMPLEMENTATION STATUS REPORTS**

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Please remove Bates page 9-3 and replace it with the attached new Bates page 9-3. The new page includes a paragraph highlighted in grey that was inadvertently omitted from the previous version.

Please add the attached one-page “TMDL Progress Report” for the Truckee River Sediment TMDL as Enclosure 6.

Please add the attached PowerPoint presentation as Enclosure 7.

[http://www.waterboards.ca.gov/about\\_us/performance\\_report\\_1314/plan\\_assess/11112\\_tmdl\\_outcomes.shtml](http://www.waterboards.ca.gov/about_us/performance_report_1314/plan_assess/11112_tmdl_outcomes.shtml)

TMDL Unit staff has developed their own detailed format for reporting on the implementation parties, indicator parameters, targets, and performance measures. These TMDL Implementation Status Reports are posted on Lahontan's webpage:

[http://www.waterboards.ca.gov/rwqcb6/water\\_issues/programs/tmdl/index.shtml](http://www.waterboards.ca.gov/rwqcb6/water_issues/programs/tmdl/index.shtml), and are the subject of this item.

The five TMDL Implementation Status Reports are enclosed. Staff updated Heavenly Valley Creek and Blackwood Creek Status Reports with recent data from the implementation parties. Recent monitoring data from the primary implementation party for Indian Creek Reservoir (South Tahoe Public Utility District) do not significantly alter the Status Report, so the 2014 update is sufficiently current. The Truckee River is on an annual target monitoring schedule whose status is updated every one or two years (unless conditions change significantly). Squaw Creek has a biological condition target whose assessments are performed every two years when sampling conditions permit (e.g., when flows are too high to be representative or safe to sample).

**RECOMMEND-  
ATION:**

This is an informational item. The Water Board will not be asked to take any formal action.

**ENCLOSURES**

<b>ENCLOSURE</b>	<b>Description</b>	<b>Bates Pages</b>
<b>1</b>	Heavenly Valley Creek TMDL Implementation Status Report	<b>9-6</b>
<b>2</b>	Indian Creek Reservoir TMDL Implementation Status Report	<b>9-13</b>
<b>3</b>	Squaw Creek TMDL Implementation Status Report	<b>9-23</b>
<b>4</b>	Blackwood Creek TMDL Implementation Status Report	<b>9-29</b>
<b>5</b>	Truckee River TMDL Implementation Status Report	<b>9-34</b>

# **ENCLOSURE 6**

Total Maximum Daily Load Progress Report		Truckee River Sediment TMDL
Regional Water Board	Lahontan, Region 6	<b>STATUS</b> <input checked="" type="checkbox"/> Conditions Improving <input type="checkbox"/> Data Inconclusive <input type="checkbox"/> Improvement Needed <input type="checkbox"/> TMDL Achieved/Waterbody Delisted
Beneficial uses affected:	COLD, SPWN	
Pollutant(s) addressed:	Sediment	
Implemented through:	<a href="#">NPDES Permit</a> , <a href="#">Waste Discharge Requirements</a> , <a href="#">Squaw Creek TMDL</a>	
Approval date:	September 16, 2009	

### TMDL Summary

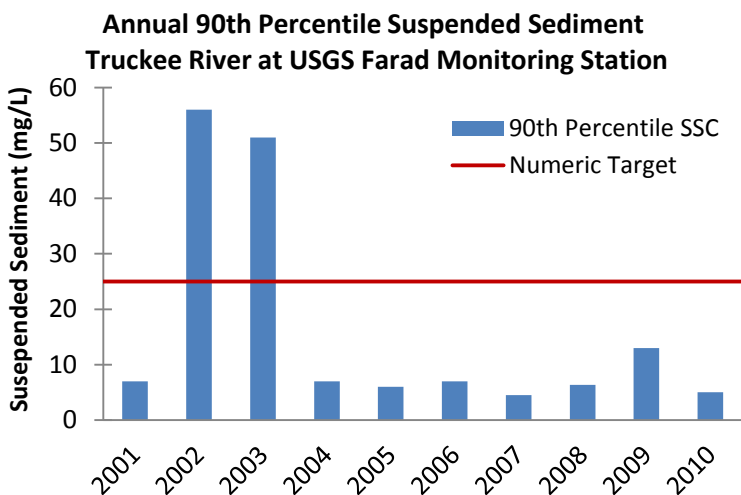
The middle Truckee River (from the outlet of Lake Tahoe at Tahoe City to the California/Nevada state line) is impaired by sediment due to flow events resulting from thunderstorms, snow melt and dam releases that produce turbidity spikes that exceed the water quality objective. Legacy land use impacts, population growth and urbanization have also contributed in affecting the in-stream aquatic beneficial uses. The Lahontan Regional Water Board developed the [Truckee River TMDL for sediment](#) to address the sediment impairment.

The TMDL target is an annual 90<sup>th</sup> percentile value of less than or equal to 25 milligrams per liter (mg/L) suspended sediment as measured at the Farad monitoring station. The TMDL is implemented through permits on area ski resorts and Caltrans, designation of Placer County and the Town of Truckee as regulated Small Municipal Separate Storm Water Systems (MS4s), a cooperative agreement with federal and state agencies, and assistance from local non-profits. The TMDL implementation schedule calls for achieving the suspended sediment target by 2028.

### Truckee River Watershed



### Truckee River Water Quality



### Water Quality Outcomes

- The Town of Truckee and Placer County developed the [Truckee River Water Quality Monitoring Plan \(TRWMP\)](#) (September 15, 2008) to design a strategy which will allow the County and Town to assess the effectiveness of their ongoing Storm Water Monitoring Programs (SWMPs) with respect to protecting downstream resources.
- Updated Caltrans permit in the summer of 2011 that allows for better tracking of Caltrans implementation efforts.
- Total suspended sediment value consistently below TMDL target since 2004.

### Additional Information

- Along with permitted entities, local non-profits are active in conserving/restoring the natural processes in the watershed. For more information, please visit the [Truckee River Watershed Council](#), [Truckee Donner Land Trust](#), and the [Sierra Business Council](#) websites.
- For additional information on TMDL Implementation Status see the [2011 Implementation Status Report](#).

# **ENCLOSURE 7**

# Agenda Item #9

## TMDL Implementation Status Reports

March 12, 2015

Rich Booth  
Chief, TMDL & Basin Planning Unit



# TMDL Development

1. Involve Stakeholders
2. Assess Water Body
3. Define the Total Load and Develop Allocations
4. Develop Implementation Plan
5. Amend the Basin Plan

# TMDL Implementation

0. Adopt permits or orders, as appropriate  
("program cross-over")
1. Review implementation plans and deadlines
2. Determine action item status - are they completed, underway, postponed, cancelled, or ...?

This requires coordination with Lahontan regulatory staff and Project Implementers (aka Responsible Parties or Dischargers)

3. Update the TMDL Implementation Reports



# TMDL Implementation Status Reports

## Example of Erosion Control Features (South Lake Tahoe - post Angora Fire)



# TMDL Implementation Status Reports

2001	Heavenly Valley Creek <b>Sediment</b>	<b><u>Most targets on track</u></b> toward compliance
2002	Indian Creek Reservoir <b>Phosphorus</b>	<b><u>Most targets on track</u></b> toward compliance
2006	Squaw Creek <b>Sediment</b>	Target compliance shows <b><u>mixed results</u></b>
2007	Blackwood Creek <b>Bedded Sediment</b>	<b><u>Most targets on track</u></b> toward compliance
2008	Truckee River <b>Sediment</b>	<b><u>Target is in compliance</u></b> (staff is evaluating appropriateness of target)
2010	Lake Tahoe <b>Nitrogen, Phosphorus, Fine Sediment Particles</b>	(separate agenda item)

# TMDL Implementation Status Reports

## Hypolimnetic aeration at Indian Creek Reservoir by South Tahoe Public Utility District



# TMDL Implementation Status Reports

Hypolimnetic aeration at Indian Creek Reservoir  
by South Tahoe PUD:



# TMDL Implementation Status Reports

Key Features on the first page:

1. Waterbody/Pollutant
2. Map
3. Background (date of adoption, basis for the TMDL, etc.)
4. Visual display of conditions (e.g., biological score over time)
5. Permits, if applicable

# TMDL Implementation Status Reports

Key Features on the subsequent pages:

1. Target(s)
2. Indicators
3. Evaluation schedule
4. Project Implementers (formerly known as Responsible Parties)
5. Who is reporting on progress
6. Staff comments on compliance



# TMDL Implementation Status Reports

Features on final pages of the Status Reports for some of the TMDLs:

1. Data supporting the plots and charts
2. Additional plots or charts
3. Comparison of indicators to other waterbodies

# TMDL Implementation Status Reports

Erosion  
Control  
Features

