

Draft 2014 Integrated Report Summary for the Boise Region

Subject to change

New Listings in Category 5/Additions to the 303 (d) list

The Boise Region has added 15 new assessment unit cause-combinations to the 303(d) list (Category 5) due to identification of impairments of designated uses of waters in the region. The newly identified impaired AUs have 5 causes or observed effects: *Escherichia coli* (8), Temperature (3), Mercury (2), Copper (1), and Combined biota/Habitat assessments (observed effect) (1) (Table 1).

Table 1. New Category 5 listings included in the Draft 2014 Integrated Report

Assessment Unit	Assessment Unit name	HUC Name	Impairment	Mileage
ID17050101SW019_02a	Rattlesnake Creek above mountain Home Reservoir	C. J. Strike Reservoir	<i>Escherichia coli</i>	28.91
ID17050102SW033_02	Deer Creek- 1 st and 2 nd order	Bruneau	<i>Escherichia coli</i>	18.43
ID17050103SW001_07a	Snake River- State line to Boise River	Middle-Snake Succor	Temperature	4.19
ID17050103SW002_04	Lower Succor Creek- 4 th order (state line to mouth)	Middle- Snake Succor	Temperature	5.51
ID17050103SW006_07a	Snake River- Castle Creek to Swan Falls	Middle- Snake Succor	Temperature	13.28
ID17050103SW025_02	Corder Creek- 1 st and 2 nd order	Middle- Snake Succor	<i>Escherichia coli</i>	63.35
ID17050104SW026_02a	Deep Creek- 1 st and 2 nd order forested tributaries	Upper Owyhee	Combined Biota/Habitat Bioassessments	80.28
ID17050115SW002_02	Homestead Gulch	Middle-Snake Payette	<i>Escherichia coli</i>	21.27
ID17050115SW003_03	Ashlock Gulch- 3 rd order	Middle-Snake Payette	<i>Escherichia coli</i>	2.21
ID17050115SW004_02	Hurd and Big Whitley Gulches	Middle-Snake Payette	<i>Escherichia coli</i>	24.75
ID17050122SW016_03	Sand Hollow- 3 rd order	Payette	<i>Escherichia coli</i>	2.73
ID17050201SW001_08	Oxbow Reservoir	Brownlee Reservoir	Mercury	1106.23 ac
ID17050201SW003_02	Tributaries to Snake River- 1 st and 2 nd order	Brownlee Reservoir	<i>Escherichia coli</i>	106.81
ID17060101SL003_08	Snake River- Hells Canyon	Hells Canyon	Mercury	17.93
ID17060101SL004_03	Deep Creek- 3 rd order (Lake Creek to mouth)	Hells Canyon	Copper	6.78

Causes of impairment delisted from Category 4 or Category 5

43 assessment units have been removed from category 4a (1) or 5 (42) for this reporting cycle (Table 2). Just over half (22) have been moved from Category 5 to Category 4a as a result of an EPA approved TMDL. The AU delisting rationale included in Table 2 is just a brief summary of the entire assessment. For the complete assessment please consult the Draft 2014 Integrated Report, Appendix M.

Table 2. Proposed delistings within the Boise Region included in the draft 2014 Integrated Report

Assessment Unit	Assessment Unit Name	HUC Name	Category	Cause of impairment or observed effect	Mileage	Rational
ID17060101SL004_03	Deep Creek- 3 rd order	Hells Canyon	5	Cause Unknown	6.78	Replace with Copper
ID17060101SL004_03	Deep Creek- 3 rd order	Hells Canyon	5	pH	6.78	WQS attained due to restoration
ID17050102SW016_02	Mary's Creek and Tributaries- 1 st and 2 nd order	Bruneau	5	Combined Biota/Habitat assessments	135.7	Old data collection site inappropriate; new data collected in perennial portion demonstrates full support
ID17050102SW033_03	Deer Creek- 3 rd order	Bruneau	5	Combined Biota/Habitat assessments	5.23	Initial assessment not representative of water quality; new data demonstrate full support
ID17050102SW034_02	Deadwood Creek- 1 st and 2 nd order	Bruneau	5	Combined Biota/Habitat assessments	28.6	Site has recovered and BURP data indicate full CWAL support
ID17050102SW035_04	Buck Flat Draw- 4 th order	Bruneau	5	Temperature	10.21	Original listing in error, there are no data to suggest impairment
ID17050103SW004_03	McBride Creek-3 rd order	Middle-Snake Succor	5	Temperature	6.89	Initial listing was incorrect and not based on data; new data demonstrate compliance with temperature criteria
ID17050103SW016_02	Pickett Creek- 1 st and 2 nd order	Middle-Snake Succor	5	Temperature	27.52	Initial listing was incorrect and not based on data; new data demonstrate compliance with temperature criteria
ID17050113SW002a_04	Willow Creek- 4 th order	South Fork Boise	5	Combined Biota/Habitat assessments	0.93	BURP data indicate full support of CWAL
ID17050113SW031_02	Fall Creek- 1 st and 2 nd order tributaries	South Fork Boise	5	Combined Biota/Habitat assessments	84.27	Historical data collected in an inappropriate location; new data indicate full support of CWAL
ID17050114SW002_04	Indian Creek- Sugar Avenue to Boise River	Lower Boise	5	<i>Escherichia coli</i>	11.91	Approved TMDL
ID17050114SW002_04	Indian Creek- Sugar Avenue to Boise River	Lower Boise	5	Sedimentation/Siltation	11.91	Approved TMDL
ID17050114SW003b_03	Indian Creek- Indian Creek Reservoir to new York Canal	Lower Boise	5	Sedimentation/Siltation	41.23	Approved TMDL
ID17050114SW003d_0	Indian Creek above	Lower Boise	5	<i>Escherichia coli</i>	62.18	Approved TMDL

2	reservoir						
ID17050114SW003d_0	Indian Creek above reservoir	Lower Boise	5	Sedimentation/Siltation	62.18	Approved TMDL	
2	reservoir						
ID17050114SW003d_0	Indian Creek above reservoir- 3 rd order	Lower Boise	5	Sedimentation/Siltation	11.57	Approved TMDL	
3							
ID17050114SW003d_0	Indian Creek above reservoir- 3 rd order	Lower Boise	5	Temperature	11.57	Continuous temperature monitoring data as well as biomonitoring data indicate full support	
3							
ID17050114SW006_02	Mason Creek-entire watershed	Lower Boise	5	<i>Escherichia coli</i>	29.83	Approved TMDL	
ID17050114SW006_02	Mason Creek-entire watershed	Lower Boise	5	Sedimentation/Siltation	29.83	Approved TMDL	
ID17050114SW007_04	Fifteenmile Creek-4 th order	Lower Boise	5	<i>Escherichia coli</i>	3.73	Approved TMDL	
ID17050114SW007_04	Fifteenmile Creek-4 th order	Lower Boise	5	Sedimentation/Siltation	3.73	Approved TMDL	
ID17050114SW008_03	Tenmile Cree- 3 rd order below Blacks Creek Reservoir	Lower Boise	5	<i>Escherichia coli</i>	29.48	Approved TMDL	
ID17050114SW008_03	Tenmile Cree- 3 rd order below Blacks Creek Reservoir	Lower Boise	5	Sedimentation/Siltation	29.48	Approved TMDL	
ID17050114SW010_02	Fivemile, Eightmile, and Ninemile Creeks- 1 st and 2 nd order	Lower Boise	5	<i>Escherichia coli</i>	66.18	Approved TMDL	
ID17050114SW010_03	Fivemile Creek- 3 rd order	Lower Boise	5	<i>Escherichia coli</i>	22.64	Approved TMDL	
ID17050114SW010_03	Fivemile Creek- 3 rd order	Lower Boise	5	Sedimentation/Siltation	22.64	Approved TMDL	
ID17050114SW011a_06	Boise River-Diversion Dam to Veterans Memorial Parkway	Lower Boise	5	Temperature	22.77	Original listing in error, data from elsewhere misapplied to this AU; Fish and Game data indicate full support of CWAL	
ID17050114SW015_02	Willow Creek- 1 st and 2 nd order	Lower Boise	5	Combined Biota/Habitat bioassessments	77.74	Original listing in error, no data suggest impairment	
ID17050114SW015_02	Willow Creek- 1 st and 2 nd order	Lower Boise	5	Temperature	77.74	Original listing in error, no data suggest impairment	
ID17050114SW015_03	Willow Creek- 3 rd order	Lower Boise	5	Sedimentation/Siltation	18.37	Approved TMDL	
ID17050114SW016_03	Sand Hollow Creek)C-Line Canal to I-84)	Lower Boise	5	Sedimentation/Siltation	5.55	Approved TMDL	

ID17050114SW017_03	Sand Hollow Creek- I-84 to Sharp Road	Lower Boise	5	Sedimentation/Siltation	18.25	Approved TMDL
ID17050114SW017_03	Sand Hollow Creek- I-84 to Sharp Road	Lower Boise	5	<i>Escherichia coli</i>	18.25	Approved TMDL
ID17050114SW017_06	Sand Hollow Creek- Sharp Road to Snake River	Lower Boise	5	<i>Escherichia coli</i>	3.68	Approved TMDL
ID17050114SW017_06	Sand Hollow Creek- Sharp Road to Snake River	Lower Boise	5	Sedimentation/Siltation	3.68	Approved TMDL
ID17050120SW001_02a	SF Payette River- 1 st and 2 nd order- Lowman to Grandjean	South Fork Payette	5	Combined Biota/Habitat bioassessments	110.17	Stream recovered from historic fire impacts, monitoring data indicate support of CWAL
ID17050121SW007_02	Silver Creek- 1 st and 2 nd order	Middle Fork Payette	4a	Temperature	23.92	This AU was identified in error as part of the Middle Fork Payette TMDL; there is no evidence of temperature impairment
ID17050122SW018_04	Little Willow Creek- Indian Creek to mouth	Payette	5	Sedimentation/Siltation	17.08	Approved TMDL
ID17050123SW008_05	Gold Fork- upper 5 th order, above Gold Fork Ditch	North Fork Payette	5	Sedimentation/Siltation	2.61	Originally listed in error; data do not indicate impairment by sediment
ID17050201SW010_04	Rock Creek- 4 th order	Bruneau	5	Combined Biota/Habitat bioassessments	4.83	Original site located in reservoir slack water rather than creek. New data indicate full support of CWAL
ID17060205SL012_04	Bear Valley Creek- 4 th order (Cache Creek to Elk Creek)	Upper Middle Fork Salmon	5	Sedimentation/Siltation	7.36	Original listing was in error, available data demonstrates full support of beneficial uses
ID17060208SL023_03	East Fork of the South Fork of the Salmon River- 3 rd order	South Fork Salmon	5	Combined Biota/Habitat bioassessments	2.53	Historical data collected in an inappropriate location; new data indicate full support of CWAL
ID17060208SL029_03	Sugar Creek- 3 rd order (Cane Creek to mouth)	South Fork Salmon	5	Antimony	2.79	Original listing was in error, available data demonstrates full support of aquatic life uses

TMDLs and Priorities

There are TMDLs in development for Lower Boise including Indian Creek and for Weiser Flats. TMDLs approved by EPA between the draft and final versions include the Lower Boise River TMDL: 2015 Total Phosphorus Addendum (2 AUs). The 2 AUs included in the approved TMDL will be delisted from Category 5 after the public comment period and before the final draft of the Integrated Report is issued.

Table 3 details the revised prioritization schedule for TMDLs and 5-year reviews. Hydrologic Units that do not have Category 5 impairments are prioritized based on the need to review existing TMDLs.

Table 3. Revised priorities for TMDL and 5-year review development

Hydrologic Unit Code	US Geological Survey Cataloging Unit Name	Priority	Year	Category 5 Causes of Impairment
17050114	Lower Boise River	High	2016	Cause Unknown, Chlorpyrifos, Combined Biota/Habitat Bioassessments, Malathion, Permethrin, Phosphorus (Total), Temperature
17050115	Middle Snake River/Payette	High	2016	<i>Escherichia coli</i>
17050201	Brownlee Reservoir	High	2016	Chlorpyrifos, Combined Biota/Habitat Bioassessments, <i>Escherichia coli</i> , Lamda-Cyhalothrin, Mercury, Methyl Parathion
17050103	Middle Snake River/Succor Creek	High	2016	Combined Biota/Habitat Bioassessments, <i>Escherichia coli</i> , Sedimentation/Siltation, Temperature
17050113	South Fork Boise River	High	2016	Combined Biota/Habitat Bioassessments, <i>Escherichia coli</i> , Mercury
17050123	North Fork Payette River	Medium	2018	Combined Biota/Habitat Bioassessments, <i>Escherichia coli</i> , Mercury, Temperature
17050124	Weiser River	Medium	2018	Combined Biota/Habitat Bioassessments, <i>Escherichia coli</i> , Fishes Bioassessments, Sedimentation/Siltation
17050122	Payette River	Medium	2018	<i>Escherichia coli</i> , Sedimentation/Siltation, Temperature
17050104	Upper Owyhee River	Medium	2018	Aquatic Plant Bioassessments, Combined Biota/Habitat Bioassessments, <i>Escherichia coli</i> , Mercury
17050107	Middle Owyhee River	Medium	2018	--
17050105	South Fork Owyhee River	Medium	2018	--
17050111	North/Middle Forks Boise River	Medium	2020	Arsenic
17060208	South Fork Salmon River	Medium	2020	Antimony, Arsenic, Mercury, Sedimentation/Siltation
17050108	Jordan Creek	Medium	2020	Combined Biota/Habitat Bioassessments, <i>Escherichia coli</i> , Mercury, Sedimentation/Siltation, Temperature
17050101	C.J. Strike Reservoir	Medium	2020	Combined Biota/Habitat Bioassessments, <i>Escherichia coli</i> , Sedimentation/Siltation, Temperature
17050120	South Fork Payette River	Medium	2020	Combined Biota/Habitat Bioassessments, Sedimentation/Siltation
17050112	Boise River/Mores Creek	Medium	2020	Temperature
17050106	East Little Owyhee River	Medium	2022	--

Hydrologic Unit Code	US Geological Survey Cataloging Unit Name	Priority	Year	Category 5 Causes of Impairment
17060210	Little Salmon River	Medium	2022	--
17050102	Bruneau River	Medium	2022	Combined Biota/Habitat Bioassessments, <i>Escherichia coli</i> , Mercury, Sedimentation/Siltation, Temperature
17050121	Middle Fork Payette River	Medium	2022	--
17060206	Lower Middle Fork Salmon River	Medium	2022	--
17060205	Upper Middle Fork Salmon River	Medium	2022	Temperature

Other Highlights

The EPA compiles information for non-point source *Success Stories* which detail restoration efforts that have led to attainment of water quality standards and beneficial use support. In this reporting cycle two of the three Success Stories are located within the Boise administrative area. The first is the story of restoration in the Bear Valley Creek drainage. Bear Valley Creek has been impaired by sediment for many years. As a result of interagency collaboration to implement restoration projects sediment loads have been reduced such that the designated uses are now fully supported and 2 AUs (one in 2008) are being delisted from Category 5.

Although the lower South Fork Payette River (ID17050120SW001_05) is not being delisted during this cycle, the lower South Fork Payette is being featured as a Success Story for making progress towards attainment of full beneficial use support. Successful implementation of the Boise National Forest Plan has reduced sediment loads to the river.