



Water-Data Report 2012

**12413300 SOUTH FORK COEUR D' ALENE RIVER AT SMELTERVILLE, ID**

Spokane Basin  
South Fork Coeur D'Alene Subbasin

LOCATION.--Lat 47°32'54", long 116°10'31" referenced to North American Datum of 1983, in SE ¼ NW ¼ SW ¼ sec.35, T.49 N., R.2 E., Shoshone County, ID, Hydrologic Unit 17010302, on left bank at county road bridge, 0.2 mi downstream from Government Gulch, 0.3 miles north of Smelterville, and at mile 5.1.

DRAINAGE AREA.--202 mi<sup>2</sup>, approximately.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--March 1999 to current year.

PERIOD OF DAILY RECORD.--

- WATER TEMPERATURE: March 1999 to September 2005 (discontinued).
- SPECIFIC CONDUCTANCE: March 1999 to September 2005 (discontinued).
- TURBIDITY: October 2000 to September 2005 (discontinued).

REMARKS.--Turbidity data collected prior to 2001 water year not published.

EXTREMES FOR PERIOD OF DAILY RECORD.--

- WATER TEMPERATURE: Maximum, 23.5 °C July 21-22, 27, Aug. 9, 2003, July 24, 2004; minimum, 0.0 °C many days during winter months.
- SPECIFIC CONDUCTANCE: Maximum recorded daily mean, 521 microsiemens/cm Dec. 12, 2000; minimum recorded daily mean, 58 microsiemens/cm May 29-30, 2002.
- TURBIDITY: Maximum recorded, >1000 FNU Oct. 11, 31, 2001, Feb. 9, Apr. 14, 2002, Feb. 1, 2003; minimum recorded, <1 FNU on many days.

**WATER-QUALITY DATA  
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 1 of 3

[CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Temperature, air, °C (00020)	Discharge, instantaneous, ft <sup>3</sup> /s (00061)	pH, water, unfiltered, field, standard units (00400)	Specific conductance, water, unfiltered, μS/cm at 25°C (00095)	Temperature, water, °C (00010)	Hardness, water, mg/L as CaCO <sub>3</sub> (00900)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Ammonia, water, filtered, mg/L as N (00608)
10-14-2011	0955	4.5	103	7.3	239	8.3	102	26.9	8.35	< .010
02-23-2012	1505	1.0	E 440	7.3	176	4.3	60.9	16.0	5.07	.020
04-26-2012	1330	12.0	E 2,640	7.3	69	6.7	26.5	7.24	2.04	< .010
06-26-2012	1000	11.0	E 890	7.2	107	8.8	36.0	9.77	2.82	< .010

## 12413300 SOUTH FORK COEUR D' ALENE RIVER AT SMELTERVILLE, ID—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 2 of 3

[CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Orthophosphate, water, filtered, mg/L as P (00671)	Phosphorus, water, filtered, mg/L as P (00666)	Phosphorus, water, unfiltered, mg/L as P (00665)	Total nitrogen, water, unfiltered, analytically determined, mg/L (62855)	Cadmium, water, filtered, μg/L (01025)	Cadmium, water, unfiltered, μg/L (01027)	Iron, water, filtered, μg/L (01046)
10-14-2011	0955	0.100	0.008	0.009	0.021	0.12	9.62	9.37	78.7
02-23-2012	1505	.205	.010	.011	.023	.27	6.47	6.81	55.7
04-26-2012	1330	.049	.005	.006	.050	.10	1.85	2.56	17.0
06-26-2012	1000	.042	< .004	.007	.015	.09	3.14	3.00	21.6

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

Part 3 of 3

[CaCO<sub>3</sub>, calcium carbonate; N, nitrogen; P, phosphorus; ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; μS/cm, microsiemens per centimeter; μg/L, micrograms per liter; <, less than; E, estimated]

Date	Sample start time	Iron, water, unfiltered, recoverable, μg/L (01045)	Lead, water, filtered, μg/L (01049)	Lead, water, unfiltered, recoverable, μg/L (01051)	Manganese, water, filtered, μg/L (01056)	Manganese, water, unfiltered, recoverable, μg/L (01055)	Zinc, water, filtered, μg/L (01090)	Zinc, water, unfiltered, recoverable, μg/L (01092)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	Suspended sediment concentration, mg/L (80154)
10-14-2011	0955	146	2.23	7.27	321	278	1,660	1,250	43	1
02-23-2012	1505	247	2.26	14.7	190	227	757	986	56	6
04-26-2012	1330	1,500	3.30	159	31.7	188	295	378	56	97
06-26-2012	1000	212	2.54	14.2	70.8	84.1	432	422	87	9