

APPENDIX L – SURFACE WATER AND SEDIMENT METALS DATA, ROCK CREEK TMDL PLANNING AREA

This appendix contains two data tables. **Table L-1** contains surface water flow and water column metals concentration data for stream sampling locations in the Rock Creek TPA. **Table L-2** contains stream channel sediment metals concentration data and the corresponding ratio of each measured concentration to the recommended PEL concentration.

Table L-1. Surface Water Metals Concentration Data for the Rock Creek TMDL Planning Area

| Waterbody Segment | Site Description | Station ID | Sample Date | Hardness (mg/L) | Flow (cfs) | Field pH (su) | AL (Dis) (µg/L) | As (TR) (µg/L) | Cd (TR) (µg/l) | Cu (TR) (µg/l) | Fe (TR) (mg/L) | Hg (TR) (µg/L) | Pb (TR) (µg/l) | Ag (TR) (µg/l) | Zn (TR) (µg/l) |
|-------------------|-------------------------------------|-------------|-------------|-----------------|------------|---------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Basin Gulch | Lowest road Xing | C02BASNG10 | 06/03/10 | 196 | 0.1 | -- | < 30 | 14 | <0.08 | <1 | <50 | -- | <0.5 | <0.5 | <10 |
| Basin Gulch | Lowest road Xing | C02BASNG10 | 07/29/10 | 219 | 0.1 | 8.4 | < 30 | 14 | <0.08 | <1 | <50 | <0.005 | <0.5 | <0.5 | <10 |
| Basin Gulch | Lowest road Xing | C02BASNG10 | 08/25/10 | 228 | 0.1 | 8.3 | < 30 | 15 | <0.08 | <1 | <50 | <0.005 | <0.5 | <0.5 | <10 |
| Basin Gulch | Lowest road Xing | C02BASNG10 | 10/05/10 | 225 | 0.1 | 8.0 | < 30 | 14 | <0.08 | <1 | <50 | <0.005 | <0.5 | <0.5 | <10 |
| Basin Gulch | Lowest road Xing | C02BASNG10 | 06/15/11 | 175 | 1.0 | 8.0 | < 30 | 15 | <0.08 | <1 | <50 | -- | <0.5 | <0.5 | <10 |
| Basin Gulch | Lowest road Xing | C02BASNG10 | 06/30/11 | 166 | 0.1 | 8.3 | < 30 | 15 | <0.08 | <1 | <50 | -- | <0.5 | <0.5 | <10 |
| Eureka Gulch | 200 yds. D/S** of Basin Gulch mouth | C02EURKG10 | 07/29/04 | 156 | 0.3 | 6.6 | <100 | 16 | <0.1 | <1 | <10 | -- | <0.5 | <3 | <10 |
| Flat Gulch | Near headwaters | C02FLATG01 | 08/07/09 | 48.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Flat Gulch | Near headwaters | C02FLATG01 | 09/11/09 | 45.5 | -- | -- | 120 | 2 | <0.08 | 1 | 290 | -- | <0.5 | <0.5 | <1 |
| Flat Gulch | Near headwaters | C02FLATG01 | 07/06/10 | 46.1 | 0.03 | -- | 60 | 3 | <0.08 | <1 | -- | -- | <0.5 | <0.5 | <5 |
| Flat Gulch | Near headwaters | C02FLATG01 | 08/04/10 | 47.8 | 0.174 | 8.3 | 50 | 2 | <0.08 | 1 | -- | -- | <0.5 | <0.5 | <5 |
| Flat Gulch | Near headwaters | C02FLATG01 | 09/09/10 | -- | 0.25 | 8.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Flat Gulch | Near headwaters | C02FLATG02 | 08/06/09 | 67.6 | 0.03 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Flat Gulch | Near mouth | C02FLATG02 | 09/10/09 | 64.7 | 0.174 | -- | 120 | 4 | <0.08 | 3 | 1,140 | -- | 1 | <0.5 | 5 |
| Flat Gulch | Near mouth | C02FLATG02 | 07/06/10 | 66.5 | 0.25 | -- | 70 | 3 | <0.08 | <1 | -- | -- | <0.5 | <0.5 | <5 |
| Flat Gulch | Near mouth | C02FLATG02 | 08/13/11 | 62.2 | 0.03 | 8 | 50 | 4 | <0.08 | 1 | 380 | -- | <0.5 | <0.5 | <5 |
| Flat Gulch | 0.2 mi. U/S*** of C02FLATG01 | C02FLATG04 | 08/15/11 | 46.2 | 0.03 | 7.8 | 100 | 3 | <0.08 | <1 | 380 | -- | <0.5 | <0.3 | <5 |
| Flat Gulch | 0.2 mi. U/S of C02FLATG01 | C02FLATG04 | 06/20/2012 | 48 | 0.07 | 7 | 50 | <3 | <0.08 | <1 | 170 | -- | <0.5 | <0.5 | <5 |
| Flat Gulch | 2 mi. U/S of mouth | C02FLATG10 | 08/07/09 | 63.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Flat Gulch | 2 mi. U/S of mouth | C02FLATG10 | 09/12/09 | 58.7 | -- | -- | 130 | 4 | <0.08 | 3 | 1,370 | -- | 1 | <0.5 | 5 |
| Flat Gulch | 2 mi. U/S of mouth | C02FLATG10 | 07/06/10 | 69 | 0.01 | -- | 60 | 5 | <0.08 | 1 | -- | -- | <0.5 | <0.5 | <5 |
| Flat Gulch | 2 mi. U/S of mouth | C02FLATG10 | 08/04/10 | 75.7 | 0.25 | 8.3 | 70 | 4 | <0.08 | 1 | -- | -- | <0.5 | <0.5 | <5 |
| Flat Gulch | 2 mi. U/S of mouth | C02FLATG10 | 09/09/10 | -- | 0.36 | 8.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Flat Gulch | 2 mi. U/S of mouth | C02FLATG10 | 08/13/11 | 55 | 0.02 | 7.6 | 60 | 4 | <0.08 | -- | 440 | -- | -- | <0.3 | <5 |
| Flat Gulch | 2 mi. U/S of mouth | C02FLATG10 | 07/30/04 | 62 | 0.3 | 7.4 | <100 | <3 | <0.1 | 2 | 450 | -- | <0.5 | <0.3 | <10 |
| Miners Gulch | near headwaters | C02MNRSG01* | 07/08/10 | 15.6 | -- | -- | 50 | 1 | < 0.08 | < 1 | 60 | -- | < 0.5 | <0.5 | <5 |
| Miners Gulch | near headwaters | C02MNRSG01* | 08/06/10 | 18 | -- | -- | 40 | < 1 | < 0.08 | < 1 | 40 | -- | < 0.5 | <0.5 | <5 |
| Miners Gulch | near headwaters | C02MNRSG01* | 09/11/10 | 18.3 | -- | -- | 50 | < 1 | < 0.08 | < 1 | 80 | -- | < 0.5 | <0.5 | <5 |
| Quartz Gulch | 1.4 miles U/S of mouth | C02QRTZG01 | 06/04/10 | 34 | 0.37 | -- | 50 | <3 | -- | 1 | 120 | -- | <0.5 | <0.5 | <10 |
| Quartz Gulch | 1.4 miles U/S of mouth | C02QRTZG01 | 07/29/10 | 52 | 0.07 | 8.1 | <30 | 4 | <0.08 | <1 | 110 | < 0.005 | <0.5 | <0.5 | <10 |
| Quartz Gulch | 1.4 miles U/S of mouth | C02QRTZG01 | 08/25/10 | 63 | 0.03 | 8 | <30 | 3 | <0.08 | <1 | 100 | < 0.005 | <0.5 | <0.5 | <10 |
| Quartz Gulch | 1.4 miles U/S of mouth | C02QRTZG01 | 10/05/10 | 68 | 0.06 | 7.8 | <30 | 4 | <0.08 | <1 | 170 | < 0.005 | <0.5 | <0.5 | <10 |
| Quartz Gulch | 1.4 miles U/S of mouth | C02QRTZG01 | 06/15/11 | 21 | 1.8 | 7.9 | 460 | 6 | <0.08 | 1 | 480 | -- | <0.5 | <0.5 | <10 |
| Quartz Gulch | 1.4 miles U/S of mouth | C02QRTZG01 | 06/29/11 | 26 | 0.36 | 8.2 | 160 | 5 | <0.08 | 1 | 290 | -- | <0.5 | <0.5 | <10 |
| Quartz Gulch | 1.4 miles U/S of mouth | C02QRTZG01 | 07/21/11 | 36 | 0.16 | 7.8 | <30 | 5 | <0.08 | <1 | 140 | 0.0067 | <0.5 | <0.5 | |
| Quartz Gulch | 1.4 miles U/S of mouth | C02QRTZG01 | 08/09/11 | -- | -- | 7.54 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Quartz Gulch | 1.4 miles U/S of mouth | C02QRTZG01 | 09/14/11 | 57 | 0.03 | 8.7 | <30 | 4 | <0.08 | <1 | 130 | -- | <0.5 | <0.5 | <10 |
| Scotchman Gulch | headwaters | C02SCTMG01* | 08/05/09 | 32.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotchman Gulch | headwaters | C02SCTMG01* | 09/15/09 | 32.3 | -- | -- | 30 | 1 | <0.08 | <1 | 150 | -- | <0.5 | <0.5 | <1 |
| Scotchman Gulch | headwaters | C02SCTMG01* | 07/07/10 | 25 | 0.53 | -- | 130 | 1 | <0.08 | <1 | -- | -- | <0.5 | <0.5 | <5 |
| Scotchman Gulch | headwaters | C02SCTMG01* | 08/05/10 | -- | 0.19 | 7.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

Table L-1. Surface Water Metals Concentration Data for the Rock Creek TMDL Planning Area

| Waterbody Segment | Site Description | Station ID | Sample Date | Hardness (mg/L) | Flow (cfs) | Field pH (su) | AL (Dis) (µg/L) | As (TR) (µg/L) | Cd (TR) (µg/l) | Cu (TR) (µg/l) | Fe (TR) (mg/L) | Hg (TR) (µg/L) | Pb (TR) (µg/l) | Ag (TR) (µg/l) | Zn (TR) (µg/l) |
|----------------------|------------------------------------|-------------|-------------|-----------------|------------|---------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Scotchman Gulch | 1 mi. D/S of Nat'l Forest Boundary | C02SCTMG02 | 08/05/09 | 36.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotchman Gulch | 1 mi. D/S of Nat'l Forest Boundary | C02SCTMG02 | 09/13/09 | 39.9 | -- | -- | 20 | 1 | <0.08 | <1 | 480 | -- | <0.5 | <0.5 | 1 |
| Scotchman Gulch | 1 mi. D/S of Nat'l Forest Boundary | C02SCTMG02 | 07/07/10 | 29.8 | 0.68 | -- | 100 | 1 | <0.08 | <1 | -- | -- | <0.5 | <0.5 | <5 |
| Scotchman Gulch | 1 mi. D/S of Nat'l Forest Boundary | C02SCTMG02 | 08/05/10 | -- | 0.26 | 8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotchman Gulch | 1 mi. D/S of Nat'l Forest Boundary | C02SCTMG02 | 09/10/10 | -- | 1.02 | 8.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotchman Gulch | 1 mi. D/S of Nat'l Forest Boundary | C02SCTMG02 | 08/15/11 | 35.1 | 0.16 | 8.1 | 30 | 1 | <0.08 | <1 | 570 | -- | <0.5 | <0.3 | <5 |
| Scotchman Gulch | 0.4 mi. U/S of mouth | C02SCTMG03 | 08/06/09 | 48.7 | 0.64 | 8.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotchman Gulch | 0.4 mi. U/S of mouth | C02SCTMG03 | 09/12/09 | 48.4 | 0.21 | 7.8 | 10 | 2 | <0.08 | <1 | 190 | -- | <0.5 | <0.5 | 1 |
| Scotchman Gulch | 0.4 mi. U/S of mouth | C02SCTMG03 | 07/06/10 | 35.6 | 0 | | 120 | 2 | <0.08 | 1 | | -- | <0.5 | <0.5 | 6 |
| Scotchman Gulch | 0.4 mi. U/S of mouth | C02SCTMG03 | 08/05/10 | -- | 0.24 | 8.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotchman Gulch | 0.4 mi. U/S of mouth | C02SCTMG03 | 09/09/10 | -- | 0.67 | 8.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotchman Gulch | 0.4 mi. U/S of mouth | C02SCTMG03 | 08/14/11 | 42.8 | 0.17 | 8.2 | 20 | 1 | <0.08 | <1 | 350 | -- | <0.5 | <0.3 | <5 |
| Scotchman Gulch | headwaters | C02SCTMG04* | 06/20/12 | 25 | -- | -- | 140 | <3 | <0.08 | <1 | 310 | -- | <0.5 | <0.5 | <10 |
| Scotchman Gulch | 50 yds U/S of Scotchmn Gul Rd. | C02SCTMG10 | 08/01/04 | 45 | 0.2 | 5.2 | <100 | <3 | <0.1 | <1 | 240 | -- | <0.5 | <0.3 | <10 |
| Scotchman Gulch | 50 yds U/S of Scotchmn Gul Rd. | C02SCTMG10 | 08/04/09 | 34.8 | 0.21 | 8.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotchman Gulch | 50 yds U/S of Scotchmn Gul Rd. | C02SCTMG10 | 09/14/09 | 37.1 | -- | -- | 20 | 1 | <0.08 | <1 | 420 | -- | <0.5 | <0.5 | <1 |
| Scotchman Gulch | 50 yds U/S of Scotchmn Gul Rd. | C02SCTMG10 | 07/07/10 | 27.5 | 0.65 | -- | 160 | 1 | <0.08 | <1 | | -- | <0.5 | <0.5 | <5 |
| Scotchman Gulch | 50 yds U/S of Scotchmn Gul Rd. | C02SCTMG10 | 09/10/10 | -- | 0.79 | 8.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Scotchman Gulch | 50 yds U/S of Scotchmn Gul Rd. | C02SCTMG10 | 08/16/11 | 34.1 | 0.12 | 8 | 40 | 1 | <0.08 | <1 | 440 | -- | <0.5 | <0.5 | <5 |
| Scotchman Gulch | 50 yds U/S of Scotchmn Gul Rd. | C02SCTMG10 | 06/20/12 | 28 | 0.59 | 8.5 | 110 | <3 | <0.08 | <1 | 470 | -- | <0.5 | <0.5 | <10 |
| Scotchman Gulch | ½ mi. U/S of mouth | C02SCTMG20 | 08/02/04 | 60 | 0.3 | 5.9 | <100 | <3 | <0.1 | <1 | 170 | -- | <0.5 | <0.3 | <10 |
| Scotchman Gulch | ½ mi. U/S of mouth | C02SCTMG20 | 06/20/12 | 35 | 0.11 | 7.6 | 70 | <3 | <0.08 | <1 | 550 | -- | <0.5 | <0.3 | <10 |
| Sluice Gulch | near mouth | C02SLUCG01 | 06/03/10 | 146 | | | <30 | 12 | <0.08 | 1 | 200 | -- | <0.5 | <0.5 | <10 |
| Sluice Gulch | near mouth | C02SLUCG01 | 09/23/10 | 147 | 1.11 | | <30 | 11 | <0.08 | <1 | 70 | -- | <0.5 | <0.5 | <10 |
| Sluice Gulch | near mouth | C02SLUCG01 | 07/14/10 | -- | 1.12 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sluice Gulch | near mouth | C02SLUCG01 | 08/23/10 | -- | 1.18 | 8.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sluice Gulch | near mouth | C02SLUCG01 | 09/23/10 | -- | 0.9 | 8.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sluice Gulch | near mouth | C02SLUCG01 | 08/02/11 | -- | 1.23 | 9.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sluice Gulch | near mouth | C02SLUCG01 | 09/01/11 | -- | 1.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sluice Gulch | ¼ mi. U/S of Silver King | C02SLUCG02 | 06/03/10 | 144 | 1.27 | -- | <30 | 12 | <0.08 | <1 | 90 | -- | <0.5 | <0.5 | <10 |
| Sluice Gulch | ¼ mi. U/S of Silver King | C02SLUCG02 | 07/14/10 | -- | 1.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sluice Gulch | ¼ mi. U/S of Silver King | C02SLUCG02 | 08/24/10 | -- | 1.33 | 8.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sluice Gulch | ¼ mile U/S of Silver King | C02SLUCG02 | 09/23/10 | 148 | 1.42 | 8.9 | <30 | 11 | <0.08 | <1 | 60 | -- | <0.5 | <0.5 | <10 |
| Sluice Gulch | ¼ mi. U/S of Silver King | C02SLUCG02 | 08/02/11 | -- | 1.06 | 8.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sluice Gulch | ¼ mi. U/S of Silver King | C02SLUCG02 | 09/01/11 | -- | 1.31 | | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Sluice Gulch | 1.7 mi. U/S of mouth | C02SLUCG03 | 06/03/10 | 141 | -- | -- | <30 | 11 | <0.08 | <1 | <50 | -- | <0.5 | <0.5 | <10 |
| Sluice Gulch | 1.7 mi. U/S of mouth | C02SLUCG03 | 09/23/10 | 150 | -- | -- | <30 | 11 | <0.08 | <1 | <50 | -- | <0.5 | <0.5 | <10 |
| Sluice Gulch | 3.4 mi. U/S of mouth | C02SLUCG04 | 06/03/10 | 34 | -- | -- | 100 | 11 | <0.08 | 4 | 200 | -- | <0.5 | <0.5 | <10 |
| Sluice Gulch | ¼ mile U/S of mouth | C02SLUCG10 | 07/28/04 | 139 | -- | -- | <100 | 11 | <0.1 | <1 | 30 | -- | <0.5 | <0.3 | <10 |
| West Fork Rock Creek | ½ mi. D/S of Bowles Cr. | C02ROCWF01 | 08/25/09 | 11 | -- | 7.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| West Fork Rock Creek | ½ mi. D/S of Bowles Cr. | C02ROCWF01 | 09/22/09 | 12 | -- | 7.8 | <30 | <3 | <0.08 | <1 | 60 | <0.005 | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | ½ mi. D/S of Bowles Cr. | C02ROCWF01 | 06/11/10 | 7 | 117.75 | | 70 | <3 | <0.08 | <1 | 100 | -- | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | ½ mi. D/S of Bowles Cr. | C02ROCWF01 | 10/04/10 | 12 | 6.22 | 8 | <30 | <3 | <0.08 | <1 | 60 | -- | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | 0.4 mi. D/S Sand Basin Cr. | C02ROCWF02 | 08/25/09 | 10 | -- | 7.8 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| West Fork Rock Creek | 0.4 mi. D/S Sand Basin Cr. | C02ROCWF02 | 09/22/09 | 10 | -- | 7.7 | <30 | <3 | <0.08 | <1 | 70 | <0.005 | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | 0.4 mi. D/S Sand Basin Cr. | C02ROCWF02 | 06/11/10 | 6 | 491.4 | -- | 80 | <3 | <0.08 | <1 | 100 | -- | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | 0.4 mi. D/S Sand Basin Cr. | C02ROCWF02 | 10/04/10 | 11 | 7.04 | 8.2 | <30 | <3 | <0.08 | <1 | 70 | -- | <0.5 | <0.5 | <10 |

Table L-1. Surface Water Metals Concentration Data for the Rock Creek TMDL Planning Area

| Waterbody Segment | Site Description | Station ID | Sample Date | Hardness (mg/L) | Flow (cfs) | Field pH (su) | AL (Dis) (µg/L) | As (TR) (µg/L) | Cd (TR) (µg/l) | Cu (TR) (µg/l) | Fe (TR) (mg/L) | Hg (TR) (µg/L) | Pb (TR) (µg/l) | Ag (TR) (µg/l) | Zn (TR) (µg/l) |
|----------------------|-------------------------|------------|-------------|-----------------|------------|---------------|-----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| West Fork Rock Creek | 4 mi. U/S of mouth | C02ROCWF03 | 08/25/09 | 8 | -- | 6.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| West Fork Rock Creek | 4 mi. U/S of mouth | C02ROCWF03 | 09/21/09 | 8 | -- | 7.6 | <30 | <3 | <0.08 | <1 | 40 | -- | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | 4 mi. U/S of mouth | C02ROCWF03 | 06/11/10 | 6 | 543.99 | -- | 90 | <3 | <0.08 | <1 | 100 | -- | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | 4 mi. U/S of mouth | C02ROCWF03 | 10/04/10 | 8 | 18.58 | 8.2 | <30 | <3 | <0.08 | <1 | <50 | -- | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | 0.8 mi. U/S of mouth | C02ROCWF04 | 08/24/09 | 11 | -- | 7.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| West Fork Rock Creek | 0.8 mi. U/S of mouth | C02ROCWF04 | 09/21/09 | 11 | -- | 7.2 | <30 | <3 | <0.08 | <1 | 120 | -- | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | at mouth | C02ROCWF05 | 06/11/10 | 7 | 940.34 | | 90 | <3 | <0.08 | <1 | 130 | -- | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | at mouth | C02ROCWF05 | 10/04/10 | 17 | 32.6 | 8.6 | <30 | <3 | <0.08 | <1 | 110 | -- | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | 2 mi. U/S of Coal Gulch | C02ROCWF06 | 06/11/10 | 5 | 961.54 | | 80 | <3 | <0.08 | <1 | 90 | -- | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | 2 mi. U/S of Coal Gulch | C02ROCWF06 | 10/04/10 | 7 | 21.37 | 8.1 | <30 | <3 | <0.08 | <1 | <50 | -- | <0.5 | <0.5 | <10 |
| West Fork Rock Creek | Off Jeep Trail | C02ROCWF07 | 06/11/10 | 6 | 42.02 | | 90 | <3 | <0.08 | <1 | 140 | <0.005 | <0.5 | <0.5 | <10 |

Table L-2. Metal concentrations in sediment and corresponding ratios of measured concentration to metal PEL concentrations recommended for fresh water sediment.

| SEGMENT NAME | SITE ID | Sample Date | Site Description | As Conc. (ug/kg) | As Conc/ PEL Ratio | Cd Conc. (ug/kg) | Cd Conc/ PEL Ratio | Cu Conc. (ug/kg) | Cu Conc/ PEL Ratio | Pb Conc. (ug/kg) | Pb Conc/ PEL Ratio | Hg Conc. (ug/kg) | Hg Conc/ PEL Ratio | Zn Conc. (ug/kg) | Zn Conc/ PEL Ratio |
|----------------------|-------------|-------------|------------------------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|------------------|--------------------|
| Flat Gulch | C02FLATG01 | 09/11/09 | headwaters | 4.85 | 0.3 | <0.25 | <0.01 | 14.3 | 0.07 | 6.42 | 0.07 | 0.08 | 0.16 | 27.8 | 0.09 |
| Flat Gulch | C02FLATG02 | 09/10/09 | near mouth | 3.82 | 0.2 | <0.25 | <0.01 | 20.5 | 0.10 | 7.56 | 0.08 | 0.08 | 0.16 | 41.2 | 0.13 |
| Flat Gulch | C02FLATG10 | 09/12/09 | 2 mi. U/S of mouth | 4.07 | 0.2 | <0.25 | <0.01 | 18 | 0.09 | 7.21 | 0.08 | 0.07 | 0.14 | 36.9 | 0.12 |
| Quartz Gulch | C02QRTZG01 | 09/14/11 | 1.4 mi. U/S of mouth | 1050 | 62 | 1.1 | 0.31 | 38 | 0.19 | 31 | 0.34 | 1 | 2.06 | 871 | 2.77 |
| Scotchman Gulch | C02SCTMG01 | 9/15/09 | headwaters | 3.53 | 0.2 | < 0.25 | <0.1 | 9.36 | 0.05 | 6.43 | 0.07 | | | 22.8 | 0.07 |
| Scotchman Gulch | C02SCTMG01 | 7/7/10 | headwaters | 6.43 | 0.4 | < 0.2 | <0.1 | 8.98 | 0.05 | 5.94 | 0.07 | 0.09 | 0.19 | 26.7 | 0.08 |
| Scotchman Gulch | C02SCTMG10 | 9/14/09 | 50 yds U/S of Scotchmn Gul Rd. | 16.5 | 1.0 | < 0.25 | <0.1 | 10.6 | 0.05 | 7.22 | 0.08 | | | 48.6 | 0.15 |
| Scotchman Gulch | C02SCTMG10 | 7/7/10 | 50 yds. U/S of Scotchman Gulch Rd. | 10.4 | 0.6 | <0.2 | <0.1 | 10.1 | 0.05 | 6.65 | 0.07 | 0.12 | 0.25 | 38.1 | 0.12 |
| Scotchman Gulch | C02SCTMG02 | 9/13/09 | 1 mi. D/S of Nat'l Forest Boundary | 5.2 | 0.3 | <0.25 | <0.1 | 13.8 | 0.07 | 7.72 | 0.08 | 0.09 | 0.19 | 36.9 | 0.12 |
| Scotchman Gulch | C02SCTMG02 | 7/7/10 | 1 mi. D/S of Nat'l Forest Boundary | 6.18 | 0.4 | <0.2 | <0.1 | 12.9 | 0.07 | 7.36 | 0.08 | 0.08 | 0.16 | 35.3 | 0.11 |
| Scotchman Gulch | C02SCTMG03 | 9/12/09 | 0.4 mi. U/S of mouth | 4.32 | 0.3 | <0.25 | <0.1 | 10.4 | 0.05 | 6.96 | 0.08 | 0.06 | 0.12 | 37.8 | 0.12 |
| Scotchman Gulch | C02SCTMG03 | 7/6/10 | 0.4 mi. U/S of mouth | 4.41 | 0.3 | <0.2 | <0.1 | 12.8 | 0.06 | 7.3 | 0.08 | 0.05 | 0.10 | 43.8 | 0.14 |
| Sluice Gulch | C02SLUCG01 | 09/23/10 | near mouth | 18 | 1.1 | 0.3 | 0.1 | 26 | 0.1 | 17 | 0.2 | <0.05 | <0.10 | 66 | 0.2 |
| Sluice Gulch | C02SLUCG10 | 07/28/04 | ¼ mile U/S of mouth | 10 | 0.6 | <0.5 | <0.1 | 10.3 | 0.1 | 6.9 | 0.1 | <1 | <0.002 | 26 | 0.1 |
| Sluice Gulch | C02SLUCG02 | 09/23/10 | ¼ mi. U/S of Silver King | 22 | 1.3 | 0.2 | 0.1 | 20 | 0.1 | 14 | 0.2 | <0.05 | <0.10 | 61 | 0.2 |
| Sluice Gulch | C02SLUCG03 | 09/23/10 | 1.7 mi. U/S of mouth | 30 | 1.8 | 0.2 | 0.1 | 20 | 0.1 | 14 | 0.2 | <0.05 | <0.10 | 63 | 0.2 |
| West Fork Rock Creek | C02ROCWF01* | 08/25/09 | ½ mi. D/S of Bowles Cr. | 2 | 0.12 | <0.2 | <0.3 | <20 | <0.1 | 9 | 0.1 | 0.071 | 0.14 | 23 | 0.07 |
| West Fork Rock Creek | C02ROCWF01* | 09/22/09 | ½ mi. D/S of Bowles Cr. | <8 | <0.5 | <0.2 | <0.3 | <20 | <0.1 | <5 | <0.05 | <0.05 | <0.1 | <20 | <0.06 |
| West Fork Rock Creek | C02ROCWF02 | 08/25/09 | 0.4 mi. D/S Sand Basin Cr. | 5 | 0.29 | 0.2 | 0.06 | <20 | <0.1 | 11 | 0.12 | 0.13 | 0.27 | 32 | 0.10 |
| West Fork Rock Creek | C02ROCWF02 | 09/22/09 | 0.4 mi. D/S Sand Basin Cr. | <8 | <0.5 | <0.2 | <0.3 | <20 | <0.1 | <5 | <0.05 | <0.05 | <0.1 | 24 | 0.08 |
| West Fork Rock Creek | C02ROCWF03 | 08/25/09 | 4 mi. U/S of mouth | 7 | 0.41 | 0.2 | 0.06 | <20 | <0.1 | 11 | 0.12 | 0.091 | 0.19 | 33 | 0.10 |
| West Fork Rock Creek | C02ROCWF03 | 09/21/09 | 4 mi. U/S of mouth | <8 | <0.5 | <0.2 | <0.3 | <20 | <0.1 | <5 | <0.05 | <0.05 | <0.1 | <20 | <0.06 |
| West Fork Rock Creek | C02ROCWF04 | 08/24/09 | 0.8 mi. U/S of mouth | 4 | 0.24 | <0.2 | <0.3 | <20 | <0.1 | 9 | 0.1 | 0.085 | 0.17 | 25 | 0.08 |
| West Fork Rock Creek | C02ROCWF04 | 09/21/09 | 0.8 mi. U/S of mouth | <8 | <0.5 | <0.2 | <0.3 | <20 | <0.1 | <5 | <0.05 | <0.05 | <0.1 | <20 | <0.06 |

*Natural background site; **D/S = Downstream; *** U/S = Upstream;

