

Water-Data Report 2007

06376300 BLACK THUNDER CREEK NEAR HAMPSHIRE, WY

 Cheyenne Basin
 Upper Cheyenne Subbasin

LOCATION.--Lat 43°34'54", long 104°43'11" referenced to North American Datum of 1927, in SW ¼ SW ¼ SW ¼ sec.30, T.42 N., R.65 W., Weston County, WY, Hydrologic Unit 10120103, 20 ft downstream from bridge on county road, 1.3 mi west of Hampshire, and 4.0 mi upstream from mouth.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1980-81, 2001 to current year.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 1 of 3

| Date | Time | Turbdty white light, det ang 90+/-30 | Baro- metric pres- sure, mm Hg | Dis- solved oxygen, mg/L | Dis- solved oxygen, percent of sat- uration | pH water, unfiltrd field, std units | Specif- ic conduc- tance, wat unf μS/cm | Temper- ature, air, deg C | Temper- ature, water, deg C | Hard- ness, water, mg/L as CaCO ₃ | Calci- um water, filtrd, mg/L | Magnes- ium, water, filtrd, mg/L | |
|-------|------|---|--|-----------------------------------|--|--|--|------------------------------------|--------------------------------------|--|---|--|---------|
| | | Instan- taneous dis- charge, cfs (00061) | NTRU (63676) | (00025) | (00300) | (00301) | (00400) | (00095) | (00020) | (00010) | (00900) | (00915) | (00925) |
| Oct | | | | | | | | | | | | | |
| 10... | 1300 | .00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Nov | | | | | | | | | | | | | |
| 06... | 1230 | .00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dec | | | | | | | | | | | | | |
| 11... | 1155 | .00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Jan | | | | | | | | | | | | | |
| 08... | 1200 | .00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Feb | | | | | | | | | | | | | |
| 06... | 1145 | .00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Mar | | | | | | | | | | | | | |
| 06... | 1250 | .00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Apr | | | | | | | | | | | | | |
| 10... | 1320 | .00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| May | | | | | | | | | | | | | |
| 09... | 1435 | 9.3 | -- | 655 | 8.1 | 96 | 7.5 | 197 | 20.0 | 16.0 | 47 | 10.7 | 4.86 |
| Jun | | | | | | | | | | | | | |
| 05... | 1340 | 2.3 | -- | 650 | 6.7 | 86 | 7.7 | 225 | 23.0 | 19.5 | 40 | 8.90 | 4.23 |
| 13... | 1034 | 2.1 | 3,310 | -- | 8.1 | -- | 8.2 | 231 | -- | 18.1 | -- | -- | -- |
| Jul | | | | | | | | | | | | | |
| 10... | 1110 | .00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aug | | | | | | | | | | | | | |
| 07... | 1320 | .60 | -- | 654 | 5.0 | 69 | 7.6 | 287 | 31.0 | 23.5 | 78 | 18.8 | 7.58 |
| Sep | | | | | | | | | | | | | |
| 05... | 1220 | .00 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

06376300 BLACK THUNDER CREEK NEAR HAMPSHIRE, WY—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 3

| Date | Potas- | Sodium | Sodium | | Alka- | | Chlor- | | Fluor- | | Silica, | | Sulfate | | Residue | | Residue | |
|-------|--|---|---|-------------------------------------|---|---|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|---------------------------------------|---------------------------------------|---------------------------------------|-----------------------------------|----|
| | sium, water, fltrd, mg/L (00935) | Sodium adsorp- tion ratio (00931) | frac- tion of cations (00932) | water, fltrd, mg/L (00930) | water, lab, mg/L as CaCO ₃ (29801) | wat flt fxd end lab, mg/L as CaCO ₃ (00940) | water, fltrd, mg/L (00940) | water, fltrd, mg/L (00950) | water, fltrd, mg/L (00955) | water, fltrd, mg/L (00945) | water, fltrd, mg/L (00945) | water, fltrd, mg/L (00945) | water, fltrd, tons/ acre-ft (70301) | water, fltrd, tons/d (70303) | water, fltrd, tons/d (70302) | water, fltrd, tons/d (70302) | on evap. 180degC (70300) | |
| Oct | | | | | | | | | | | | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Nov | | | | | | | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Dec | | | | | | | | | | | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Jan | | | | | | | | | | | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Feb | | | | | | | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Mar | | | | | | | | | | | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Apr | | | | | | | | | | | | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| May | | | | | | | | | | | | | | | | | | |
| 09... | 4.22 | 1.1 | 43 | 17.8 | 34 | .84 | .23 | 4.68 | 50.5 | 114 | .19 | 3.46 | 138 | | | | | |
| Jun | | | | | | | | | | | | | | | | | | |
| 05... | 4.39 | 1.6 | 53 | 23.7 | 45 | 1.37 | .25 | 6.62 | 50.8 | 127 | .24 | 1.08 | 175 | | | | | |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Jul | | | | | | | | | | | | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Aug | | | | | | | | | | | | | | | | | | |
| 07... | 8.19 | 1.1 | 35 | 21.5 | 73 | 3.71 | .25 | 5.88 | 53.0 | 163 | .23 | .28 | 171 | | | | | |
| Sep | | | | | | | | | | | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

06376300 BLACK THUNDER CREEK NEAR HAMPSHIRE, WY—Continued
**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Part 3 of 3

| Date | Alum- inum, water, unfiltrd recover -able, µg/L (01105) | Arsenic water, filtrd, µg/L (01000) | Arsenic water, unfiltrd recover -able, µg/L (01002) | Barium, water, unfiltrd recover -able, µg/L (01007) | Beryll- ium, water, unfiltrd recover -able, µg/L (01012) | Iron, water, filtrd, µg/L (01046) | Mangan- ese, water, filtrd, µg/L (01056) | Selen- ium, water, unfiltrd µg/L (01147) |
|------------|--|---|---|---|---|---|---|---|
| | | | | | | | | |
| Oct | | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- |
| Nov | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- |
| Dec | | | | | | | | |
| 11... | -- | -- | -- | -- | -- | -- | -- | -- |
| Jan | | | | | | | | |
| 08... | -- | -- | -- | -- | -- | -- | -- | -- |
| Feb | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- |
| Mar | | | | | | | | |
| 06... | -- | -- | -- | -- | -- | -- | -- | -- |
| Apr | | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- |
| May | | | | | | | | |
| 09... | 14,800 | .49 | 4.2 | 252 | 1.70 | 49 | 7.7 | 1.3 |
| Jun | | | | | | | | |
| 05... | 25,800 | .64 | 6.4 | 426 | 2.79 | 58 | 1.4 | 1.9 |
| 13... | -- | -- | -- | -- | -- | -- | -- | -- |
| Jul | | | | | | | | |
| 10... | -- | -- | -- | -- | -- | -- | -- | -- |
| Aug | | | | | | | | |
| 07... | 13,900 | .97 | 3.6 | 218 | 1.11 | 17 | 1.8 | .62 |
| Sep | | | | | | | | |
| 05... | -- | -- | -- | -- | -- | -- | -- | -- |