NPDES Permitting
And the
Bighorn River

David Rise
USEPA Region 8
406.457.5012
National Pollutant Discharge Elimination System

Section 402 of the Clean Water Act
33 U.S.C. § 1342

Authorizes the discharge of pollutants to waters of the U.S.
NPDES Discharge Permits

USBR

- Yellowtail Dam          MT0022993
- Yellowtail Visitor Center MT0029106
- Yellowtail Lagoon       MTG589001

Fort Smith W & S District MTG589018

Crow M, R & I Water Plant MT0031827

Pretty Eagle Academy     MTG589002

City of Hardin

- PWS Water Plant         MT0030767
- Wastewater Treatment Plant MT0030759
Permit Discharge Effluent Limits

Technology Based Limits

Conventional Pollutants – 40 CFR § 401.16
- Biochemical Oxygen Demand
- Total Suspended Solids
- pH
- Fecal Coliform
- Oil and Grease

Toxic Pollutants – 40 CFR § 401.15
- Metals, Solvents, Pesticides

Water Quality Based Limits

- To meet Water Quality Standards
- Best Professional Judgement
Yellowtail Dam

1994 – Flow, pH, BOD 30/45, TSS 30/45 mg/l

1999 – Flow, pH, BOD 30/45, TSS 30/45 mg/l

2005 – Flow, pH, BOD 30/45, TSS 30/45 mg/l, Oil & Grease 10 mg/l

2010 – Flow, pH, BOD 30/45, TSS 30/45 mg/l, Oil & Grease 10 mg/l, *E. coli*
Yellowtail Lagoon

1994 – Flow, pH, BOD 30/45, TSS 100/135 mg/l

1999 – Flow, pH, BOD 30/45, TSS 30/45 mg/l

2009 – Flow, pH, BOD 30/45, TSS 30/45 mg/l, Oil & Grease 10 mg/l

2010 – Flow, pH, BOD 30/45, TSS 30/45 mg/l, Oil & Grease 10 mg/l
Hardin WWTP

2001 – Flow, pH, BOD 30/45, TSS 30/45 mg/l, Fecal Coliform 130/260 K, Chlorine 0.5 mg/l, Metals, TDS, Salinity, Cyanide

2006 – Flow, pH, BOD 30/45, TSS 30/45 mg/l, Oil & Grease 10 mg/l, Chlorine 0.5, Fecal Coliform 200/400, Metals

2011 – Flow, pH, BOD 30/45, TSS 30/45 mg/l, Oil & Grease 10 mg/l, *E. coli* 126/252 #/100 ml, VOC, Metals, BOD & TSS % removal, Chlorine 0.5 mg/l, WET
How do you find out how well a facility is meeting their effluent limits?

http://echo.epa.gov/