

Rapid City Water Reclamation Division

Monthly Report for: October 2011



Collection system:

Private Backups:	7	YTD: 57
Public Backups:	0	YTD: 9
Sanitary sewer line cleaned (ft):	62739	YTD: 941980
Sanitary Sewer High maintenance line cleaned: (Blue Book):	15162	YTD: 153444
Sanitary Sewer Televised (ft):	7381	YTD: 55773.7
Sanitary Sewer Root Controlled (ft):	0	YTD: 0
Sewer Taps:	56	YTD: 374
Locates:	683	YTD: 6965

Lift Station gallons pumped - *Daily estimate based on pump curves and hours.*

Country Road	Elks Club	Elk Vale*	Hwy 16	Plum Creek	Red Rocks	Red Rock Meadows	Villagio
211091	46558		8412	2213	29771	15770	370

*Station still on bypass, rebuilt pumps scheduled to arrive the week of November 14th.

Industrial Pretreatment:

Inspections of minor Industrial Users: 72 with no –poor ratings.

Inspections/ Sampling of Significant Industrial Users: (12) Walk through: (0)

Inspections of Septic Tanks Installations: (0) Inspection of grease interceptor installation: (0)

Issued: Notices of Violation (0) Letters of Violation (0) Administrative Orders (0)

Show Cause Order (1)

- Received 2 discharge from landfill leachate pond/leachate wells
- Conducted follow up activities pertaining to Administrative Penalty Demand Order No. 0211 PN 50.1 against Accurpress America for pretreatment violations.

Treatment Plant:

Parameter	Min	Max	Ave	Totals
Effluent flow (MGD)	8.01	9.49	8.78	72.18 MG
Rapid Creek Upstream	17.84 (MGD) 11.53 (CFS)	54.12 (MGD) 34.98 (CFS)	28.25 (MGD) 18.26 (CFS)	875.76 MG 117.08 MCF
Ammonia				
Influent (Mg/L)	19.90	23.20	21.38	Reduction %
Effluent (Mg/L)	0.51	5.79	1.54	92.80
7 Day Limit	9.01	22.55	12.35	
TSS				Reduction %
Influent (Mg/L)	144.0	200.0	173.52	96.25
Effluent (Mg/L)	4.7	9.0	6.51	
BOD				Reduction %
Influent (Mg/L)	140.0	192.0	165.98	95.66
Effluent (Mg/L)	4.5	11.7	7.20	

Biosolids Dewatered (To Landfill): 177.6 tons @ 30.16% solids

Biosolids Thickened (To compost): 861.9 tons @ 6.27% solids

Sludge to Holding Pond (gallons): 20,812 gal per day

Septage Processed (gallons): 24,000

Electrical Usage (KWH): 461,100 (Sep 6, 2011 – October 5, 2011)

Maintenance work orders completed: 479 YTD: 4,705

- Rebuilt Channel Monster #1
- Replaced the diaphragm in WAS pump #2
- Replaced control relays in the primary sludge pumps.
- Rebuilt the north digester sludge recirculation pump
- Initiated pump down of the #2 South Digester
- Shut down the UV system for the season, started cleaning lamps and performing electrical repair work.

Division Finance Information:

