

JIM WELLS?

INSPECTION

MILLCREEK DISTRIBUTION SYSTEM ASSESSMENT MAY 18, 2006

Note: Dale Pierson has moved to a new job with Rural water. A visit with the new director of Grand County Water Conservancy District and Committee members is probably in order.

Meter for pipelines 1 & 2 is operating fine.
Recommendation – No action necessary

Lower diversion dam where pipelines 1 & 2 start.
#2 – Telemetry system recently installed has been vandalized and most of the parts stolen. The impeller meter does not function due to clogging with dirty water and debris.

Mark P. indicated that the components and renovations at this site were done piece meal and not well thought out.

Recommendation: Telemetry and remote operation are not practical at this site due to susceptibility to vandalism. A new meter which can handle dirty water and debris needs to be installed. If Smart Meter develops a meter for large pipes and flows, that would be an ideal choice. Consideration should be given to replacing ~ the 1st 100 ft. of pipeline to work better with new meter.

#1 – on the opposite bank, was not visited, but apparently the headgate and flume are functioning adequately.

Recommendation – No action necessary

Moab City Irrigation well - access is secure and equipment functioning properly. Was not used in 2005 season.

Recommendation – No action necessary

Old Power plant dam – The dam is still in good shape. Discussion ensued of whether renovation of this site would provide a better diversion site than Lower dam. But no action was recommended. A former USGS gaging station located upstream has been abandoned.

Recommendation – No action necessary

Upper diversion (Walker) dam – pipeline #5 heading.
Recommendation – No action necessary

Pipeline #5 flume – partially clogged
Recommendation: clearing of debris was done on site. Regular maintenance needs to continue.
Flume below splitter was being overtopped.
Recommendation: re – install flume for proper operation.

Janie Walker – meter is missing.
Recommendation: Install meter and modify piping for proper operation.

Peter Lawson – meter is operating fine. Due to conflict with Janie Walker, flows are rarely available.
Recommendation: encourage problem resolution.

Sheley tunnel/ Kens Lake Diversion
Both diversion structure, head gates and USGS Gage are operating fine.
Recommendation – No action necessary

Sheley Tunnel outlet meter was recently replaced and is operating fine.
Meter house is intact.
Recommendation: No action necessary

Horse Creek Diversion – Extensive Aspen fall at the diversion make access and maintenance difficult.
Recommendation: Clear all trees obstructing access.

Horse Creek parshall flume and ditch. The flume is distorted, making the accuracy of its measurements doubtful. The ditch appears to be far too flat and has inadequate freeboard.
Recommendation: Excavate ditch for adequate flow and freeboard. Correctly install a new flume.

South Mesa Diversion appears fine.
South Mesa parshall flume isn't level from side to side.
Recommendation: Re - install the flume so it is level.

Warner Lake/Dry Fork diversion. The ditch has numerous large trees blown down across it, which create backwater and make access difficult. The concrete is deteriorated especially at its foundation, which is under cut and showing re-bar. No flume was encountered.

Recommendation: Remove fallen trees from ditch for adequate flow. Repair or replace diversion structure

Install a new flume near inlet to Warner Lake to make access for measurements easier.

Wilcox Flat parshall flume – incorrectly installed. Flow through flume appeared substantially less than ditch flows upstream.

Recommendation: Correctly re-install flume. Examine ditch for leakage and make repairs as required.