

## Kyler Treatment System

4/30/2008

Bill called, said Kyler had not been flushed since 3/2007. All tools in locked storage barrel were stolen over winter.

At Kyler with Bill & Bill Sabatose. Removed stop logs on both sed basins with plans to flush system tomorrow. Checked weir readings.

Heburnia Coal Co. is applying for a permit to mine in Kyler Hollow up slope of the treatment system.

About 3" flow coming out of large overflow pipe to the first manhole below mine opening. Overflow from manhole at upstream corner of SAPs 1 was flowing almost full. Small saplings are starting to grow on embankments of sed basins and will need to be cut with/in year or so.

5/1/2008 - GSwope

At Kyler, replaced stop logs. Started to flush at ALD 1, valves on both ALD's were messed up. Some were in the flush position when they should have all been in the normal operating position, some were open or closed 5-6 turns out of a max 20 + turns. Most valve settings on SAP's were okay. Bill cleaned ppt. off of the weir flow gauges so they could be read. Water ponded at valves on both ALD's. Water ponded along center line of ALD 2. As we walked from outlet to inlet ends of ALD 2 we heard a loud sucking sound in center of ALD. A 1' dia hole had opened up in the center of the ALD. Since the valves were set in the flush position, any surface water plus a lot of air was being sucked down into the limestone. Since ALD has had several inches of water ponded on the surface for several years, I would assume that maybe the ALD outflow cannot keep up with the inflow, pressure builds up and forces water up through the earth cover. Perhaps it concentrated in one spot and created a blow hole similar to a subsurface drain.

Set all treatment cells in the flush position. W/in an hour the SAP's flush flow had started to clear up. Left site, Bill said he would return in 3 hours and reverse all valves to return system to normal flow.

Flows: ADL1 – 160

ALD2 – 115

SAP1 – 100

SAP2 - 250

5/6/2008 - GSwope

At Kyler at 9:00 this A.M. Saps 2 at 250gpm. Settling basin and wetland all looked normal and were functioning appropriately. Flow in ADL 1 was 100gpm, and in ADL 2 – 60 gpm.. Flow in Saps 1 was at least 1" over concrete weir, I would guess about 600+ gpm. Water in sed basin 1 was up close to top of dike. Flush pipes were covered and the wood dock to access the water control structure was under water. Closed valve #5 on

SAPS 1 – 6 turns to see if it would reduce the extremely high flow into and out of SAPs 1 and maybe increase the flow in the 2 ALDs.

Flows: ALD1 – 90

ALD2 – 60

SAP1 – 1” over weir/flume approx. 600+

SAP2 – 250