

EEM Cycle 2 Report

1. There have not been any significant changes to the mill process since Cycle One.
 2. The mill was in full compliance with Pulp and Paper Regulations during 1996 to 1999.
 3. Spills reported to the Provincial Emergency Program (PEP) are attached.
 4. An annual spring freshet that peaks in the first half of June impacts the Kootenay River with typical run off suspended solids. Rain events, caused by localized thunderstorms, have also been known to cause heavy run off in some parts of the system. Local anecdotal reports have mentioned a heavy rain event July 9th, 1998 where severe sloughing of clay banks on the Findlay Creek tributary cause a marked rise in turbidity in the Kootenay River. Another heavy rain event took place on August 8th on the Kootenay River at the confluence of the Kootenay River and the White River (above Canal Flats). Another clay bank sloughed down into the Kootenay River. Again, high turbidity resulted in the river.
 5. Annual averages of effluent quality parameters for 1999 (complete and sent to HCL).
 6. Effluent quality tables for sublethal toxicity (complete and sent to HCL).
- (see next page)

Spills to the Environment (ground) 1996 to 1999.

(note: there were no spills to the receiving environment – Kootenay River – during this reporting period)

1996

1. January 3rd – 2000 to 4000 gallons of lime mud, weak wash, and water spilled to the ground when a man door was opened and the tank was partially full. Due to the weather conditions, frozen material was taken to the landfill site.
2. January 4th – 12,000 gallons of hot water and weak wash spilled to the ground out of a vacuum blower exhaust at Lime Kiln area. Liquid cleaned up with a vacuum truck and material placed in mill ponds.
3. March 1st – leak in underground domestic sewage line discovered. Underground line was excavated and repaired. Effected soil hauled to landfill and new soil placed in excavation site.
4. May 7th - Spilled 10 20 gpm of chlorine dioxide to spill containment. This was contained in mill spill trench and eventually released to treatment ponds at a very small rate.
5. May 23rd – Spilled 10 kgs of caustic soda from open top of rail car. Top of rail car was left open on car switching. Effected soil was picked up and placed in the landfill site. Rail car was washed off.
6. June 29th – Spilled 200 kg of sodium chlorate to the rail track outside of rail unloading area due to a broken unload valve. Railway ties and effected soil were removed to landfill. New ties and soil were placed.
7. December 6th - Spilled 200 gallons of sludge from the colour clarifier sludge tank due to instrument error in reading the tank level.

1997

1. May 15th – An unknown amount of domestic sewage escaped from a broken underground transfer line near the new Recovery building. Repairs to the pipe were made and plans to replace the full length of the pipe were made for later in the year.
2. May 23rd – 100 to 200 gallons of weak stock filtrate escaped from plugged sewer in the Oxygen Delignification building.

1998

1. May 2nd – A broken pipe flange below grade allowed lime mud slurry to leak to the immediate soil area. The flow lime mud slurry was stopped and repairs were made to the flange.
2. May 31st – A white liquor drain line was left open and white liquor inadvertently allowed to drain to sewer and ground. About 50 gallons of white liquor was involved. The line was shut and the spill area cleaned up.
3. Aug 3rd – While attempting to repair the mill caustic sewer, the line cracked and spilled effluent to the ground. The Bleach Plant was shut down until repairs to the sewer could be done.
4. Oct 8th – A leak of white liquor from and oxidized white liquor trial system spilled across the local pavement and to the ground. The effected ground was pressure washed and vacuumed up.

1999

1. Jan 31st – 300 to 400 litres of diesel fuel were spilled to the ground at the chip handling area when a fuel line broke off of a chip truck. The dripping diesel was contained mainly on pavement and wood fines were used to soak up the spilled diesel.