1933

Engineering Department Weekly News Letter, 1933

Great Northern Paper Company

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<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
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<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin  = 45,000 Mil. Cu. Ft.</td>
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<td>January 1st, 1933: &quot; &quot; &quot; &quot; &quot; Total including Small Ponds  = 37,917 &quot; &quot; &quot;</td>
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<td>10 Yr. Avg. (Jan. 1st) Ripogenus and North Twin = 28,186 &quot; &quot; &quot; &quot;</td>
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<td>North Twin &quot; 486.90 &quot; &quot; Ripogenus &amp; North Twin &quot; 14,897 &quot; &quot; Small Ponds &quot; 0.000 &quot;</td>
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<td>Total Penobscot Storage = 14,897 Mil. Cu. Ft.</td>
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<td>Total Penobscot Storage = 14,897 Mil. Cu. Ft.</td>
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<td>Dec. 26th, 1932: Total Kennebec Storage = 22,254 &quot; &quot; &quot; &quot;</td>
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|                          | Dec. 25th, 1933: " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " " 
Precipitation in the form of snow and rain (Mostly snow) for the first 25 days of December was reported as being 1.99 inches at Ripogenus. At Millinocket, 3.58 inches was recorded.

Increased gate opening at Ripogenus, Dec. 24th, in order to pull down the lake faster, so that we may get water in from Chesuncook later on when needed.

Work covered by this job completed and the job will be closed promptly.

Steel pipe mast has been completely erected and is now in service. Job will be closed promptly.

Dryer section completed except for spring roll. Working on drives.

Setting up money to "Plant Charges Anticipated" and closing the job before the first of the year. Work will be done as promptly as possible.

Material all on hand. Setting up sufficient money to "Plant Charges Anticipated" to cover the installation cost at a later date. Job will be closed at once.

Building form for the drive foundation for the smooth press on No. 4 paper machine. Placing reinforcing rods to-day, Dec. 26th.

Concrete foundation walls poured for extension. Inside forms on town side stripped and a start made on the backfilling.

Old steel shored up in place and the old brick wall being demolished.

Completed design of sliding door for North end of Millinocket boiler house and ordered necessary hangers, rails, etc. Making study for installation of new Haug refiner at Millinocket mill. Completed study for proposed emergency connection of Grinder Pressure Pumps to mill yard fire system at Millinocket. Making layout for Madison wood brush and tank installation. Started new design of cylinder for experimental machine and started another man on assembly drawing of machine and room. One man on C.W.A. work for town of Millinocket all week; also another man for one day. Started estimates on completion of Finishing Room Roof at East Millinocket and Bull Screen at Millinocket.
Miscellaneous  W. O. McKoy visited Penobscot Mills Tuesday and Wednesday, Dec. 19th and 20th, respectively.
GREAT NORTHERN PAPER COMPANY
WEEKLY NEWS LETTER

FOR WEEK BEGINNING 8 A.M. Dec. 11, 1933 FROM Engineering Department LETTER NO. 51

SUBJECT | DETAIL
--- | ---
Water Storage | Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.
“ “ Total including Small Ponds - 39,457 ” ” ”
10 Yr. Avg. (Dec. 16th) Ripogenus and North Twin - 29,706 ” ” ”

Dec. 16th, 1933: Ripogenus Elev. 924.16 Storage 9,051 Mil. Cu. Ft.
North Twin Elev. 485.95 ” 9,186 ” ” ”
Ripogenus and North Twin ” 18,237 ” ” ”
Small Ponds ” 0,000 ” ” ”
Total Penobscot Storage 18,237 Mil. Cu. Ft.
Dec. 12th, 1932: Total Kennebec Storage 24,374 ” ” ”
11th, 1933: “ “ “ “ ” 11,045 ” ” ”
15th, 1933, opened one deep gate 3-Ft. at Millinocket Lake.

Precipitation in the form of snow and rain for the first ten days of December was reported as being 1.16 inches at Ripogenus. At Millinocket 1.72 inches has been recorded.

The third compensator has been received but has not as yet been installed.

The mast itself has been assembled with the ladder, plates, etc., and is already to be stood up onto the structural steel base.

Dryers, calender, reel and winder in place except for the parts which are missing. Most of these missing parts are being made at the mill or local foundry.

Also working on the main drives.

Job is inactive.

Job is inactive.

Installed new 18” I-beam under location for shake head foundation.

Footers for foundations on both sides of the tracks have been concreted, and a start made to-day, Dec. 18th, on pouring the walls on the town side.

Old brick wall at the Finishing Room end of the train shed has been demolished.

Carload of railroad ties have been received from the B.&A.R.R.

Steel has been shipped.

Dict. RVW (Over)
Engineering

Completed new tracing of experimental portable wood saw with all changes brought up to date. Designing sliding doors for North end of Millinocket Boiler House. Making layout for proposed emergency connection of Grinder Pressure Pumps to mill yard fire system at Millinocket. Started layout for Madison wood brush and tank installation. Designing castings for wet end of experimental cylinder machine.

One man on C.W.A. work for the Town of Millinocket all week. A second man likewise for about 4-1/2 days.

Miscellaneous

Don Montville of Shartle Brothers visited Monday, Dec. 11th.

L. V. Knight of Johns-Manville Co. visited Wednesday, Dec. 13th.
<table>
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<tr>
<th>SUBJECT</th>
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<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.</td>
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<td>Dec. 11th, 1933: Ripogenus Elev. 925.00 Storage 10,295 Mil. Cu. Ft.</td>
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<td>North Twin &quot; 486.10 9,289 &quot; &quot; &quot;</td>
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<td>Ripogenus &amp; North Twin &quot; 19,584 &quot; &quot; &quot;</td>
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<td>Small Ponds 0,000 &quot; &quot; &quot;</td>
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<td>Total Penobscot Storage 19,584 &quot; &quot; &quot;</td>
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<td>Dec. 5th, 1932: Total Kennebec Storage 24,804 &quot; &quot; &quot;</td>
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<td>&quot; 4th, 1933: 12,150 &quot; &quot; &quot;</td>
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Precipitation in the form of snow and rain for the first ten days of December was reported as being 0.44" at Ripogenus. At Millinocket 0.73" was recorded.

The second compensator has been returned from the Meyer Governor Company and has been installed on No. 2 line. There is another compensator to be received yet which will go on No. 6 line when received.

Structural Steel and pipe for the pipe mast have been received and work started on assembly of same.

Structural Steel for the partition in the chip loft between No. 1 and No. 2 digesters has been received and unloaded.

Dryer section is pretty well revamped except for the doctors and drive. Starting to install calenders now.

Job is inactive.

No further work was accomplished this past week. Job will probably be inactive now until next spring.

Performing preliminary work.

Excavation for the concrete foundations on both sides of the track is completed, and a start made on the form work.

Carload of brick received and being unloaded this morning.

Revised smooth press drawing for No. 3 machine at East Millinocket. Tracing new assembly drawing of experimental four-foot wood saw incorporating changes requested by Spruce Wood Department. Completed design of new stands for cutter and layboy in Millinocket Beater Room. Making study for proposed emergency connection of Grinder Pressure Pumps to mill yard fire system at Millinocket. Completed drawings for train shed extension at East Millinocket, and ordered necessary materials. Working on design of new wet end for experimental machine and ordered bearings and bronze shell for same. Worked on inventories for all three mills. One man working about one-half the week on C.W.A. projects.
Miscellaneous

Mr. Estes of Factory Insurance Association made inspection of Penobscot Mills during the week.
Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.
Dec. 4th, 1932: " " " " 39,640 " " "
" " " Total including Small Ponds - 39,640 " " "
10 Yr. Avg. (Dec. 4th) Ripogenus and North Twin - 30,634 " " "

North Twin " 485.35 " 9,117 " II"
Ripogenus and North Twin " 20,508 " " 
Small Ponds " 0,000 " " 
Total Penobscot Storage 20,508 " " 

Nov. 28th, 1932: Total Kennebec Storage 24,457 " " "
Nov. 27th, 1933: " " " 12,770 " " "

Precipitation for the month of November in the form of snow and rain was reported at Ripogenus as being 2.62 inches. At Millinocket 3.22 inches was recorded.

One of the compensators has been returned from the Meyer Governor Company and has been installed on No. 3 line. There are two more to be returned.

Awaiting arrival of Material.

A crew of millwrights and pipers are working on the dryer section. The top dryers have been taken down and the bottom ones turned around into their original position, at this writing.

Job is inactive.

Walkway, pipe railing, etc., on the return conveyor have been installed during the week. Also a door has been cut into the wood storage building where the new conveyor enters the room.

Stripped the old wooden sides from the uptake trough to the "B" tower.

Preliminary work on piping and building of form panels being done

Designed saw for Grinder Room to cut ends from long logs. Revising drawings of smooth press for No. 3 machine at East Millinocket. Made preliminary drawing for installation of proposed new 16" diameter x 160" face dandy roll on No. 10 machine at Millinocket. Designing stands for cutter and layboy in Millinocket Beater Room. Made preliminary drawing and estimate of train shed extension at East Millinocket. Made layout for installing an additional wet machine in the Sulphite Screen Room at Millinocket. Studying method of installing proposed new bull screens at Millinocket. Made inventories at all three mills. One man working practically all week on C A W A projects for towns of Millinocket and E. Millinocket. One man out sick practically all week.
Miscellaneous

Mr. Trimbe here all last week re his sulphite screen tryout.

Mr. Rideout, Bangor & Aroostook Railroad Co.'s assistant
engineer visited Friday, Dec. 1st, re changes to track at East
Millinocket train shed.

Excavation for Train Shed Extension started Dec 17 - PM

[Handwritten note: 2/8/63]
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<th>SUBJECT</th>
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<tr>
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<td>Maximum Capacity of Ripogenus and North Twin</td>
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<td>Nov. 27th, 1932</td>
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<td>&quot; &quot; &quot; &quot; Total including Small Ponds</td>
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<td>10 Yr. Avg. (Nov. 27th) Ripogenus &amp; North Twin</td>
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<td>Nov. 27th, 1933</td>
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<tr>
<td></td>
<td>Ripogenus Elev. 928.52 Storage</td>
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<td>North Twin &quot; 485.55</td>
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<td>Ripogenus &amp; North Twin &quot;</td>
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<td>Small Ponds</td>
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<td>Total Penobscot Storage</td>
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<td>Nov. 21st, 1932</td>
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<td>Total Kennebec Storage</td>
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<td>Nov. 20th, 1933</td>
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<td>For the first 26 days of November, Ripogenus has reported 2.05</td>
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<td>inches of snow and rain. At Millinocket 2.34 inches of snow and rain</td>
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<td>has been recorded.</td>
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<td>Skylight drainage not installed, but sufficient money has been set</td>
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<td>up to do this work at a later period, and the job closed.</td>
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<td>Nothing further accomplished this week.</td>
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<td>Material required is requisitioned.</td>
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<td>Millwrights started work revamping the dryer section Friday afternoon</td>
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<td>Job is inactive.</td>
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<td>The new return conveyor is working very good. The dump into the</td>
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<td>wood storage bin has been modified so that considerable more wood is</td>
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<td>crowded in.</td>
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<td>Wood Room Roof Job 1280</td>
<td>Made details of the new parts required for the experimental portable</td>
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<td>wood saw. Designing saw for Grinder Room to cut off ends of long logs.</td>
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<td>Completed design for partition in chip loft between No. 1 and No. 2</td>
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<td>digesters. Checked C-Drawings of Millinocket Machine Room and Basement</td>
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<td>and issuing prints of same to-day. Made preliminary drawing and estimate</td>
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<td></td>
<td>of Hoff Waste Burner Boiler for the Millinocket Mill. Making study of</td>
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<td>train shed extension at East Millinocket. Working on proposed</td>
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<td>experimental cylinder machine for Millinocket. Making study of</td>
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<td>proposed installation of second-hand Glens Falls wet machine in the</td>
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<td>Sulphite Screen Room.</td>
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<td>Studying method of installing proposed new bull screens in Grinder</td>
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<td>Room so that cost estimate may be made. One man working all week on</td>
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<td>C.W.A. projects for Towns of East Millinocket and Millinocket.</td>
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<td>Designing new roll stands for cutter and layboy in Millinocket</td>
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<td>Engineering Department</td>
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<td></td>
<td>Miscellaneous</td>
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<td>arrived Tuesday morning Nov. 21st and left Thursday night, Nov. 23rd.</td>
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<td>Mr. Blakelin of Emerson Mfg. Co. visited Thursday, Nov. 23rd.</td>
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<td></td>
<td>Dict. RVW</td>
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</tbody>
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## FOR WEEK BEGINNING 8 A.M. Nov. 13, 1933 FROM Engineering Department LETTER NO. 47

### SUBJECT | DETAIL
--- | ---
**Water Storage** | Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft. Nov. 20th, 1932: " " " " " " " " 37,461 " " " " " " Total including Small Ponds - 37,461 " " " " " " 10 Yr. Avg. (Nov. 20th) Ripogenus & North Twin - 29,938 " " " " " " Nov. 20th, 1933: Ripogenus Elev. 929.44 Storage 13,759 Mil. Cu. Ft. North Twin " 485.45 " 8,841 " " " " Ripogenus & North Twin " 22,600 " " " " Small Ponds " 0,000 " " " " Total Penobscot Storage 22,600 Mil. Cu. Ft. Nov. 14th, 1932: Total Kennebec Storage 20,927 " " " " Nov. 13th, 1933: " " " " " "

For the first nineteen (19) days of November, Ripogenus has reported 8-1/2 inches of snow equivalent to 0.98 inches water. At Millinocket, 9-1/4 inches of snowfall has been recorded which has a water equivalent of 1.54 inches.

Completed except for skylight drainage.

Work as called for on this job was practically completed, but Adolph Meyer spent the week adjusting and inspecting. He was not entirely satisfied with the operation of these units and understands he is to make some changes to the bellows and diaphragms, which will cause the job to drag along for awhile longer.

Nothing further done on this job during the past week.

The new return conveyor was put into operation the latter part of last week and it apparently is working very good.

Completed drawing of smoothing press for No. 3 paper machine at East Millinocket; worked on changes to the experimental portable wood saw that were requested by the Spruce Wood Department; completed C-Drawings (except for checking) of the Millinocket machine room and basement; study of partition in Digestor House chip loft between Nos. 1 and 2 digesters; study of wire brush wood cleaning installation, also conveyor system to wet drum in yard at Madison Mill; completed drawings on Madison broke beater for No. 1 paper machine; working on proposed experimental cylinder machine for Millinocket mill.

Mr. Passmore of Walworth Co., visited Wednesday, Nov. 15th. Mr. Knight of Timken Roller Bearing Company, visited Thursday, Nov. 16th.

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**DATE MAILED** Nov. 20th, 1933 **SIGNED**

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FOR WEEK BEGINNING 8 A.M. Nov. 6th, 1933 FROM Eng. Dept. LETTER NO. 46

<table>
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<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin</td>
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<td>Nov. 13th, 1932:</td>
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<td>&quot; &quot; &quot; Total including Small Ponds</td>
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<td>10 Yr. Avg. (Nov. 13th) Ripogenus &amp; North Twin</td>
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<td>Nov. 13th, 1933:</td>
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<td>&quot; &quot; &quot; Total Kennebec Storage 20,349 Mil. Cu. Ft.</td>
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<td>Nov. 6th, 1933:</td>
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<td>&quot; &quot; &quot; 13,683 &quot; &quot; &quot;</td>
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<td>For the first twelve days of November, Ripogenus has reported</td>
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<td>1-1/2&quot; of snow with a water content of 0.06&quot;. At Millinocket, 6&quot; of</td>
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<td>snow has been recorded with a water content of 0.39 inches.</td>
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<td>Roof completed except for drainage system from the skylights.</td>
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<td>Wood Room Roof Job 1280</td>
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<td>Meyer Governor Revamp  Job 1282</td>
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<td>Centrifugal Fire Pump - Job 2155</td>
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<td>Finishing Room Roof - J. 2156</td>
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<td>Changes to Piling Out Conveyor - J. 2158</td>
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<td>Engineering Department</td>
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<td>Miscellaneous</td>
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<td>E. R. Richards in Bangor Monday and Tuesday, Nov. 6th and 7th,</td>
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<td>recording a new plan of a portion of the Town of Millinocket.</td>
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<tr>
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<td>George Ordway, Barrett roof inspector, visited Monday, Nov. 6th.</td>
</tr>
<tr>
<td></td>
<td>F. C. Bowler left for Madison Tuesday, Nov. 7th and returned</td>
</tr>
<tr>
<td></td>
<td>Wednesday, Nov. 8th.</td>
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<tr>
<td></td>
<td>D. A. Carpenter of the Boston Gear Works called Tuesday, Nov. 6th.</td>
</tr>
<tr>
<td></td>
<td>Frank Pearson visited To-day, Nov. 13th.</td>
</tr>
</tbody>
</table>

Dict. RVW

DATE MAILED November 13, 1933 SIGNED F. C. Bowler Engineer
<table>
<thead>
<tr>
<th>Subject</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water Storage</strong></td>
<td><strong>Maximum Capacity of Ripogenus and North Twin</strong>&lt;br&gt;Nov. 6, 1933: 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>Total including Small Ponds 36,234</td>
</tr>
<tr>
<td></td>
<td>1933: Ripogenus Elev. 932.29 Storage 16,541 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>North Twin 485.65 9,117</td>
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<tr>
<td></td>
<td>Small Ponds 0.000</td>
</tr>
<tr>
<td></td>
<td>October 31st, 1932: Total Kennebec Storage 19,999</td>
</tr>
</tbody>
</table>

Precipitation for the month of October at Ripogenus was reported as being 5.46 inches; at Millinocket 4.79 inches was recorded.

**Wood Room Roof**<br>Job 1280

**Texrope Drives**<br>Sul. Pumps<br>Job 1281

**Meyer Governor**<br>Revemp - Job 1282

**Centrifugal Fire Pump**<br>Job 2155

**Finishing Room**<br>Roof - Job 2156

**Changes to Piling Out Conveyor**<br>Job 2158

**Engineering Department**

**Miscellaneous**

Four lines revamped.

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Four lines revamped.

Four lines revised.
GREAT NORTHERN PAPER COMPANY
WEEKLY NEWS LETTER
FOR WEEK BEGINNING 8 A.M. October 23, 1933 FROM Engineering Department LETTER NO. 44

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin: 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>October 30, 1932:</td>
</tr>
<tr>
<td></td>
<td>Ripogenus E elev. 933.40 Storage 17,678 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>North Twin 486.15</td>
</tr>
<tr>
<td></td>
<td>Ripogenus and North Twin 27,002</td>
</tr>
<tr>
<td></td>
<td>Small Ponds 000</td>
</tr>
<tr>
<td></td>
<td>Total Penobscot Storage 27,002 Mil. Cu. Ft.</td>
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<tr>
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<td>October 24, 1932:</td>
</tr>
<tr>
<td></td>
<td>Total Kennebec Storage 21,012</td>
</tr>
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<td>23, 1933:</td>
</tr>
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<td>13,956</td>
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</tbody>
</table>

For the first twenty-nine days of October, Ripogenus has reported 5.46 inches of rain and Millinocket has recorded 4.79 inches. This is considerably above the 10-year and 33-year averages at both Ripogenus and Millinocket, but it has not shown any apparent help to our storage.

Waterproofing entirely completed Friday night, Oct. 27th.

Skylights all framed and four of the six are practically glazed.

Drive for the second pump has been installed. Job completed except for taking down the old countershafting.

Four lines revamped.

All 33 of the new Yarway blow-off valves now installed. Job completed.

Pump received but installation not started.

Concrete slab and skylight curbs completed. The waterproofing crew started laying celotex and roofing felt this morning, Oct. 30th.

The old wooden return trough has been demolished and removed, and the steel girders blocked into place. Forms in place around the piers ready for concrete.

Chipping in concrete tunnel so as to remove old iron rails from the bottom.

Making drawings for smoothing press for No. 4 paper machine at East Millinocket. Completed design of a pipe mast for back guys for the wood rake at Millinocket. Studying design of chipper spouts.

Working on Madison broke better drawings. Completed check-up of experimental machine and made an estimate on cost of restoring same. Started study of proposed experimental cylinder machine.

George Ordway, Barrett Roof Inspector, visited roof jobs Monday and Tuesday, Oct. 23rd and 24th respectively.

Oscar Hahnel, of Hahnel Bros., visited Tuesday, Oct. 24th.

Mr. Coffin of Master Builders Company, called Friday, Oct. 27th.

Dist. RVW

DATE MAILED
Oct. 30, 1933

SIGNED
F. C. Boulier
Engineer.
FOR WEEK BEGINNING 8 A.M.  October 16, 1933 FROM  Engineering Department  LETTER NO. 43

### SUBJECT
### DETAIL

**Water Storage**
- Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu.Ft.
- October 23, 1933: 34,516 " " "
- " " Total including Small Ponds - 39,301 " " "
- 10 Yr. Avg. (Oct. 23rd) Ripogenus & North Twin - 29,062 " " "
- October 23rd, 1933: Ripogenus Elev. 934.57 Storage 18,900 Mil. Cu.Ft.
- North Twin " 486.20 " " "
- Ripogenus & North Twin " 28,258 " " "
- Small Ponds " 000 " " "
- Total Penobscoot Storage 28,258 Mil. Cu.Ft.
- October 17, 1932: Total Kennbec Storage 21,339 " " "
- October 16, 1933: " " " 14,074 " " "

For the first twenty-two days of October, Ripogenus has reported 4.42 inches of rainfall; Millinocket has recorded 3.62 inches.

### Wood Room Roof
**Job 1280**

**Texrope Drives**
**Sul. Pumps**  
**Job 1281**

**Meyer Governor Revamp** - J.1284

**Boiler Blow-off Valves** - J.1285

**Centrifugal Fire Pump** - J.2155

**Finishing Room Roof** - Job 2156

**Changes to Piling Conveyor**  
**Job 2158**

**Engineering Department**

Dict. RVW

For the first twenty-two days of October, Ripogenus has reported 4.42 inches of rainfall; Millinocket has recorded 3.62 inches.

Waterproofing of the slab is about 90% completed. Skylight crew arrived at the mill Tuesday afternoon, Oct. 17th, and at this writing, three are entirely framed and soldered and a fourth is framed and partly soldered.

Nothing further accomplished.

No. 4 line has been changed over which now makes four of the six lines revamped.

Eight of the 33 new Yarway blow-off valves will be installed by to-night, Oct. 23rd.

Pump received but installation not started.

Concrete slab entirely poured and the forms removed up to within the last six roof bays. One skylight curb entirely completed and ready for the skylight erectors. The curb angle on the other skylight curb is being welded this morning and will be grouted in before night.

The old monitor has been entirely demolished and removed from the roof.

New sprinkler pipe system has been carried along as fast as the forms have been removed.

Two more carloads of steel received this morning making a total of four cars.

A small crew was started this morning to tear out the return section of the existing conveyor.

Worked on changes to Experimental Portable Wood Saw that were requested by the Spruce Wood Department. Layout for installation of a new design of Ingersoll-Rand Centrifugal Stock Pump under No. 8 paper machine. Started a study for installation of new waste burner at Millinocket.

Studying various designs of chipper spouts. Making layout for Shurtle Broke Beater at Madison. Checking up all available parts of the original experimental machine.

One man at East Millinocket all week to assist the maintenance crew on the Finishing Room Roof. One man out on vacation.

(Over)
<table>
<thead>
<tr>
<th>Date</th>
<th>Visitor</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thurs. Oct. 19th</td>
<td>Neal C. Merrill of Madison Mill</td>
<td>Visited</td>
</tr>
<tr>
<td>Fri. Oct. 20th</td>
<td>Roy Ellingwood</td>
<td>Visited</td>
</tr>
<tr>
<td></td>
<td>Mr. C. J. Christiansen of Fibre Making Process Co.</td>
<td>Visited Fri. Oct. 20th</td>
</tr>
<tr>
<td></td>
<td>Mr. L. O. Bidstrup of Ingersoll-Rand Co.</td>
<td>Visited Sat. Oct. 21st</td>
</tr>
</tbody>
</table>

**Miscellaneous**

- Mr. C. J. Christiansen of Fibre Making Process Co. visited Fri. Oct. 20th.
- Mr. L. O. Bidstrup of Ingersoll-Rand Co. visited Sat. Oct. 21st.
**FOR WEEK BEGINNING 8 A.M. Oct. 9th, 1933 FROM Engineering Department LETTER NO. 42**

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water Storage</strong></td>
<td>Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>October 16th, 1932:</td>
<td>&quot; &quot; &quot; &quot; 35,279 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>October 16th, 1933:</td>
<td>Total including Small Ponds - 40,370 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>10 Yr. Avg. (Oct. 16th) Ripogenus and North Twin - 29,234 &quot; &quot; &quot;</td>
<td></td>
</tr>
<tr>
<td>October 16th, 1933:</td>
<td>Ripogenus Elev. 935.8 Storage 20,241 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>North Twin &quot; 486.45 &quot; 9,531 &quot; &quot;</td>
<td></td>
</tr>
<tr>
<td>Ripogenus and North Twin &quot; 29,772 &quot; &quot;</td>
<td></td>
</tr>
<tr>
<td>Small Ponds &quot; 000 &quot; &quot;</td>
<td></td>
</tr>
<tr>
<td>October 10, 1932:</td>
<td>Total Penobscot Storage 29,772 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>October 9, 1933:</td>
<td>Total Kennebec Storage 22,096 &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>14,006 &quot; &quot; &quot;</td>
</tr>
</tbody>
</table>

For the first fifteen days of October, Ripogenus reported 3.10 inches of rainfall; Millinocket 2.47 inches.

Approximately 165 squares of the roofing felt will be in place to-night which represents about 77% of the total area. A carload of gravel for the top surface was received at the mill this morning.

Skylight crew expected to arrive sometime to-day, Oct. 16th.

Steel work being painted by mill crew.

Wood Room Roof Job 1280

Textrope Drives Sul. Pumps Job 1281

Meyer Governor Changes - Job 1282

Centrifugal Fire Pump - Job 2155

Ripogenus and North Twin *29,772*

Small Ponds *000*

Total Penobscot Storage 29,772 Mil. Cu. Ft.

Total Kennebec Storage 22,096 " " "

October 10, 1932: Total Kennebec Storage 22,096 " " "

October 9, 1933: " " " " 14,006 " " "

Installation of new pump not started.

Twenty-one roof bays stripped of their forms and the sprinkler lines installed.

Work completed.

Two carloads of structural steel for the new uptake have been received and unloaded.

Stands, bearings, gears, etc. have all been re-lined and leveled and thoroughly anchored in place.

Gates and hoisting mechanism thoroughly cleaned and painted.

Dam now is in first-class repairs.

Dist. RVW

(Over)
Engineering  Completed drawings for new adjustable fourdrinier for No. 4 machine at East Millinocket, made estimate and issued job record.

Made preliminary drawing of Shartle broke beater installation for No. 1 machine at Madison, estimated cost and issued job record and requisitions.

Designing and estimating various schemes for "A" frame to be used in connection with raking wood from Millinocket piles.

Made drawing for rotary brushes to be used in wood feed conveyors to grinders — Millinocket grinder room.

Issued mill inventories and water power reports.

Miscellaneous  Frank Pearson called Wednesday, Oct. 11th.

Harry H. Leathers of Babcock & Wilcox Company called today, October 16th.

Department East Millinocket, made estimate and issued job record.

Made preliminary drawing of Shartle broke beater installation for No. 1 machine at Madison, estimated cost and issued job record and requisitions.

Designing and estimating various schemes for "A" frame to be used in connection with raking wood from Millinocket piles.

Made drawing for rotary brushes to be used in wood feed conveyors to grinders — Millinocket grinder room.

Issued mill inventories and water power reports.

Frank Pearson called Wednesday, Oct. 11th.

Harry H. Leathers of Babcock & Wilcox Company called today, October 16th.
GREAT NORTHERN PAPER COMPANY
WEEKLY NEWS LETTER

FOR WEEK BEGINNING 8 A.M. Oct. 2, 1933

From Engineering Department

LETTER NO. 41

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
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</thead>
<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin = 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
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<td>October 9th, 1933: 36,666 &quot; &quot; &quot;</td>
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<td>October 9th, 1933: Total including Small Ponds = 41,670 &quot; &quot; &quot;</td>
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<td>10 Yr. Avg. (Oct. 9th) - Ripogenus and North Twin = 29,948 &quot; &quot; &quot;</td>
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<td>For the first eight days of October, Ripogenus reported 1.61 inches of rainfall and Millinocket recorded 1.51 inches.</td>
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<td>October 2nd, 1933: Ripogenus Elev. 936.70 Storage 21,212 Mil. Cu. Ft.</td>
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<td>North Twin &quot; 486.75 &quot; 9,736 &quot; &quot; &quot;</td>
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<td>Ripogenus and North Twin &quot; 30,950 &quot; &quot; &quot;</td>
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<td>October 7th, 1933: Small Ponds &quot; 241 &quot; &quot; &quot;</td>
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<td>Total Penobscot Storage &quot; 31,191 &quot; &quot; &quot;</td>
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<td>October 3rd, 1933: Total Kennebec Storage = 22,372 &quot; &quot; &quot;</td>
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<td>October 1st, 1933: &quot; &quot; &quot; &quot; 14,953 &quot; &quot; &quot;</td>
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</table>

Wood Room Roof Job 1280

Concrete slab and skylight curbs are entirely completed and forms removed.

Hahnel's roofing crew arrived this morning, Oct. 9th, to unload freight car of felt and pitch and to start placing the waterproofing.

Skylight and skylight crew will probably arrive within a few days.

Sprinkler system re-installed.

Painters starting to paint all the steel work.

Texrope Drives Sulphite Pumps Job 1281

One pump and motor in operation.

Electricians working on control for second motor.

Meyer Governor Job 1282

Three lines changed over. Now waiting for rebuilt parts for No. 4 Line.

Centrifugal Fire Pump - Job 2155

Pump received but no work has been started on the installation.

Finishing Room Roof - Job 2156

October 9th, which represents approximately one-half of the slab.

Six roof bays of forms have been stripped and the new sprinkler lines installed in place.

Cutter, Layboy, etc., Job 2157

Traveling crane with air hoist has been completed over the roll stands of the cutter and is working satisfactorily.

Millinocket Lake Dam

Started a small crew Thursday, October 5th, to finish the work that was necessarily left undone last winter because of the severity of the weather.

Engineering Department

Working on adjustable fourdrinier and smoothing press for No. 4 Paper Machine at East Millinocket; various designs of A-Frames for Millinocket wood pile racks; broke beater for No. 1 Paper Machine at Madison; revision of C-drawings; and inventories at all three mills.

Two out on vacation.

Miscellaneous

George A. Barrows, of George H. Barrows Co., called Tuesday, October 3rd.

F. T. Dolbeare visited Thursday, October 5th.
FOR WEEK BEGINNING 8 A.M. Sept. 25, 1933 FROM Engineering Department LETTER NO. 40

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
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</table>

Total rainfall for the month of September was reported as being 4.44 inches at Ripogenus. Millinocket recorded 4.61 inches.

Concrete slab completed Saturday, Sept. 30th. Four of the concrete skylight curbs are entirely completed and ready for the skylight contractor. The fifth one will be completed to-night except for removal of forms and the sixth and last one will be concreted to-morrow, Oct. 3rd. Cypress edgestrip is being installed and will be very nearly completed by to-night.

Roofing and skylight contractor have been notified to have their crews on roof Thursday, Oct. 5th.

One motor and pump in operation. Nothing done on the second one yet.

No. 3 line now revamped making three lines that are changed over.

Pump received and unloaded at mill this morning, October 2nd.

Structural steel all erected. Formwork started on the south end of the roof and now extends to two roof bays under the existing monitor.

Opened up a section of old roof this morning, Oct. 2nd, and concreting five bays of new roof slab.

Structural steel for the roof system and traveling crane over the cutter and layboy has been received and is erected and riveted. Air hoist has been received but are still waiting for the geared trolleys.

Working on adjustable fourdrinier and smoothing press for No. 4 paper machine at East Millinocket; schemes for eliminating the vibration in the East Millinocket Control House floor; revision of C-Drawings; design of roser; mill inventories; and, water reports.


Dict. RNV

DATE MAILED Oct. 2nd, 1933

SIGNED

J. C. Bowlan Engineer
<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
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<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.</td>
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<tr>
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<td>Sept. 25th, 1933: * &quot; &quot; &quot; &quot; = 28,370 &quot; &quot; &quot; &quot;</td>
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<tr>
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<td>Sept. 25th, 1933: Total including Small Ponds - 41,983 &quot; &quot; &quot; &quot;</td>
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<td>10 Yr. Avg. (Sept. 25th) Ripogenus and North Twin - 31,596 &quot; &quot; &quot; &quot;</td>
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<tr>
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<td>North Twin &quot; 487.90 &quot; 10,521 &quot; &quot; &quot;</td>
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<tr>
<td></td>
<td>Ripogenus and North Twin &quot; 23,645 &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>Sept. 23rd, 1933: Small Ponds &quot; &quot; &quot; 275 &quot; &quot; &quot;</td>
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<tr>
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<td>Total Penobscot Storage &quot; 32,920 &quot; &quot; &quot;</td>
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<tr>
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<td>Sept. 19th, 1933: Total Kennebec Storage &quot; 23,369 &quot; &quot; &quot;</td>
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<tr>
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<td>Sept. 16th, 1933: Total Kennebec Storage &quot; 17,222 &quot; &quot; &quot;</td>
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<tr>
<td></td>
<td>During the first twenty-four days of September, Ripogenus reported a rainfall of 3.70 inches; Millinocket recorded 4.11 inches.</td>
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<td>The concrete slab is a little better than 70% completed. There are five bays more to be concreted in the East portion and twelve more in the West portion. Six of these latter bays will be concreted to-morrow morning, weather permitting.</td>
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<tr>
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<td>Thirty-three of the bays have been stripped of their form lumber and the pipes are re-installing the sprinkler lines as fast as possible.</td>
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<td>Reinforcement of the old trusses is now entirely completed.</td>
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<td>Two skylight curbs are poured and a start is to be made to-day in the placing of the angle on the top of the first curb.</td>
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<td>One motor and pump in operation.</td>
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<td>Waiting return of rebuilt parts for No. 3 line.</td>
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<td>No. 1 and No. 2 lines revamped.</td>
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<td>Pump not received yet.</td>
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<td>Structural steel entirely erected and will be all riveted by tonight.</td>
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<td>A good start has been made on the formwork, the equivalent of about three bays being in place on the South end.</td>
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<td>None of the old roof has been removed yet.</td>
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<tr>
<td></td>
<td>Waiting for structural steel, air hoist, and trolleys, in order to make a small traveling crane over the cutter stands.</td>
</tr>
<tr>
<td></td>
<td>Working on adjustable fourdrinier and smoothing press for No. 4 paper machine at East Millinocket; scheme for elimination of vibration in Control House Floor at East Millinocket; design of wood rosser; revision of C-Drawings; and water reports.</td>
</tr>
<tr>
<td></td>
<td>Messrs. Pearson and Harkness visited Tuesday, Sept. 19th to changes to the four-foot wood saw.</td>
</tr>
<tr>
<td></td>
<td>L. V. Knight of Johns-Manville Co. called Tuesday, Sept. 19th.</td>
</tr>
<tr>
<td></td>
<td>Messrs. Leather and Lyeth of Babcock &amp; Wilcox Co. visited Tuesday, Sept. 19th.</td>
</tr>
</tbody>
</table>

GREAT NORTHERN PAPER COMPANY
WEEKLY NEWS LETTER

FOR WEEK BEGINNING 8 A.M. Sept. 18th, 1933 FROM Engineering Department LETTER NO. 39

DATE MAILED Sept. 25th, 1933 SIGNED

Engineer
### GREAT NORTHERN PAPER COMPANY
#### WEEKLY NEWS LETTER

**FOR WEEK BEGINNING 8 A.M. Sept. 11th, 1933 FROM Engineering Department LETTER NO. 38**

<table>
<thead>
<tr>
<th>SUBJECT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Storage</td>
</tr>
<tr>
<td>Wood Room Roof</td>
</tr>
<tr>
<td>Job 1280</td>
</tr>
<tr>
<td>Texrope Drives</td>
</tr>
<tr>
<td>Sulphite Pumps</td>
</tr>
<tr>
<td>Job 1281</td>
</tr>
<tr>
<td>Meyer Governor</td>
</tr>
<tr>
<td>Revamp - Job</td>
</tr>
<tr>
<td>1282</td>
</tr>
<tr>
<td>Centrifugal Fire</td>
</tr>
<tr>
<td>Pump - Job 2155</td>
</tr>
<tr>
<td>Fin. Room Roof</td>
</tr>
<tr>
<td>Job 2156</td>
</tr>
<tr>
<td>Cutter, Layboy,</td>
</tr>
<tr>
<td>Etc. - Job 2157</td>
</tr>
<tr>
<td>Engineering</td>
</tr>
<tr>
<td>Department</td>
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</tbody>
</table>

#### SUBJECT DETAIL

<table>
<thead>
<tr>
<th>Date</th>
<th>Detail Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sept. 15th, 1933</td>
<td>Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>Sept. 15th, 1933</td>
<td>Total including Small Ponds - 36,895 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>10 Yr. Avg. (Sept. 15th) Ripogenus and North Twin</td>
<td>32,303 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>Sept. 16th, 1933</td>
<td>North Twin &quot; 497.15 &quot; 10,014 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>Sept. 16th, 1933</td>
<td>Ripogenus and North Twin &quot; 34,930 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>Sept. 16th, 1933</td>
<td>Small Ponds &quot; 275 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>Sept. 16th, 1933</td>
<td>Total Penobscot Storage &quot; 35,205 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>Sept. 12th, 1933</td>
<td>Total Kennebec Storage &quot; 20,294 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>Sept. 11th, 1933</td>
<td>Total Kennebec Storage &quot; 18,863 &quot; &quot; &quot;</td>
</tr>
</tbody>
</table>

For the first seventeen days of September, Ripogenus has recorded 1.88 inches and Millinocket recorded 2.07 inches of rain.

The center portion of the roof slab will be entirely concreted to-night which will make the concrete slab 55% completed. Four bays more of old roof have been stripped off the West side and these will be formed up next.

Reinforcement of steel trusses in the center and West bays is entirely completed. The six new trusses have been installed on the East side and are now being riveted. The balance of the trusses on this side are reinforced but not yet riveted.

Starting to build skylight curb forms.

One motor and pump in operation.

No. 1 and No. 2 lines of grinders are revamped. Awaiting further material from Meyer Governor Co. before the next line is changed over.

Piping received but the pump has not yet arrived.

About 65% of the structural steel is erected and a start made on the riveting of same.

Brickmasons have removed the brick at each end of the roof.

A motor driven elevator has been built on the South end of the building for hoisting concrete and other materials.

Equipment in operation. Waiting for steel and air hoist in order to improve facilities for handling the rolls of paper.

Working on proposed adjustable fourdrinier and smoothing press for No. 4 paper machine at East Millinocket, design of wood rosser, bull screens, revising C-drawings, drinking fountains for the Administration Building, C-drawings of electrical lines at Dolby and East Millinocket, and water records.

Dict. RVW (Over)

---

**DATEmailed** Sept. 18, 1933 **SIGNED** [Signature] Engineer.
Miscellaneous  L. O. Bidstrup (Ingersoll-Rand Co.) called Saturday Sept. 16th, to discuss a new design for centrifugal thick-stock pump.

Mr. Benjamin (Messinger Bearings) called Monday, Sept. 18th.

Mr. S. B. Stafford and Mr. Clem (Rice-Barton) here and at East Millinocket Monday Sept. 18th re No. 4 adjustable fourdrinier.
### GREAT NORTHERN PAPER COMPANY
### WEEKLY NEWS LETTER

FOR WEEK BEGINNING 8 A.M.  Sept. 5th, 1933 FROM Engineering Department

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
</tr>
</thead>
</table>
| Water Storage | Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.  
Sept. 11th, 1932: " " " 32,691 " "  
Sept. 11th, 1932: Total including Small Ponds - 34,985 " "  
10 Yr. Avg. (Sept. 11th) Ripogenus & North Twin - 32,939 " "  
Sept. 11th, 1933: Ripogenus Elev. 940.83 Storage 26,042 Mil. Cu. Ft.  
North Twin - 486.85 9.907 " "  
Ripogenus and North Twin - 35,849 " "  
Sept. 9th, 1933: Small Ponds - 1,137 " "  
Sept. 5th, 1932: Total Penobscot Storage - 36,986 Mil. Cu. Ft.  
Sept. 4th, 1933: Total Kennebec Storage - 20,385 " " |

For the first ten days of September, Ripogenus has recorded 0.91" of rain and Millinocket has recorded 0.16" of rain.

#### Wood Room Roof
**Job 1280**

Three bays of the East portion, four bays of the West portion, and nine bays of the central portion of this roof are concreted. Five additional bays in the central portion are ready to concrete to-morrow, Sept. 12th. Forms have been removed from eleven of the bays previously concreted. The old plank roof has been removed from six additional bays on the West side where form work will start tomorrow. The derrick has been moved from the central portion to the East side and is now being set-up preparatory to installing six new trusses over the chippers. All trusses in the West and central bays have been reinforced and riveted. Steelworkers are now engaged on the reinforcement of the East trusses.

Texrope drive is being installed on the 200 H.P. motor and spare pump to-day. It is expected that this pump will be put in service to-night.

Texrope drives installed on #2 line this past week. New main piping is all installed. No. 1 and No. 2 lines are revamped and others will be completed as machinery arrives from the Meyer Governor Co.

#### Texrope Drives Sulphite Pumps
**Job 1281**

Meyer Governor Revamp - **Job 1282**

Nine columns, about 190 feet of girders, and two panels of rafters are installed. This comprises about one-quarter of the total steel to be erected. This work is being carried along as rapidly as paper finishing and cutting operations will permit. Staging for bricklayers in the south end of the building has been erected and concrete hoist is being assembled.

This equipment is in operation, but convenient means for placing the rolls of paper in the roll stands is not yet completed.

Eng. Dept.

#### Finishing Room Roof - **Job 2156**

Cutter, Layboy, Etc. - **Job 2157**

Working on proposed adjustable fourdriner for No. 4 paper machine at the Lower Mill, facilities for handling paper onto the cutter stands at the Lower Mill, design for wood rosers, inventories, and water records. One man out on vacation this week.

Mr. Oscar Hahnel of Hahnel Brothers called with reference to roofing and skylight contracts on Friday, Sept. 8th.

Dict. FCB
<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>Sept. 5th, 1933: &quot; &quot; &quot; &quot; 33,194 &quot; &quot; &quot;</td>
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<tr>
<td></td>
<td>Sept. 5th, 1933: Total including Small Ponds 37,301 &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>10 Yr. Avg. (Sept. 5th) Ripogenus and North Twin 33,775 &quot; &quot; &quot;</td>
</tr>
<tr>
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<td>Sept. 5th, 1933: Ripogenus Elev. 941.40 Storage 26,740 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>North Twin 486.00 &quot; 2,220 &quot; &quot; &quot;</td>
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<tr>
<td></td>
<td>Ripogenus and North Twin 35,960 &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>Sept. 2nd, 1933: Small Ponds 2,723 &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>Total Penobscot Storage 38,683 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>August 29, 1933: Total Kennecott Storage 23,541 &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>August 28th, 1933: &quot; &quot; &quot; &quot; &quot;</td>
</tr>
</tbody>
</table>

Three bays of the East portion, 4 bays of the West portion and 5 bays of the central portion are concreted. Forms are removed from four of the bays, and new forms started for two more bays in the central portion. The monitor is entirely demolished and the last of the monitor trusses were lowered into place at main roof level to-day, Sept. 5th. Reinforcement of the trusses is progressing well ahead of the formwork.

The 200 H.P. motor for driving the spare pump has been overhauled in the electrical repair shop and the texrope sheave installed on it. It is now already to be hauled to the basement and set in place.

Awaiting arrival of parts from Meyer Governor Company which we understand are now on the road.

Completed and Auditing Department collecting the final charges.

Structural steel received and three columns and one girder are erected at this writing. Shoring up existing roof so as to erect additional steel.

The 100" cutter, layboy, and stands are in operation.

Working on layout for second suction press for No. 9 Machine at Millinocket; making a map showing the wood storage from North Twin Lake down to and including the mill log piles; making layout and estimates for an umbrella type of roof to protect the unloading of sulphite flakes at East Millinocket; made inventories at all three mills.

One man out on vacation for first half of week.

Mr. Decker of Price Brothers visited Wednesday, August 30th.

Mr. A. E. G. MacIver President, Hydraulic Machinery Co., Ltd., Montreal, visited Millinocket Sept. 4th to see grinder installation.

Dict. RVW
FOR WEEK BEGINNING 8 A. M. Aug. 21, 1933

ENGINEERING DEPARTMENT

LETTER NO. 35

SUBJECT

DETAIL

MAXIMUM CAPACITY OF RIPOGNEUS AND NORTH TWIN

Aug. 28, 1933: 45,000 Mil. Cu. Ft.

Aug. 28, 1933: 31,875 " " "

Aug. 28, 1933: Total including Small Ponds 40,303 " " "

10 YR. AVG. (Aug. 26th) RIPOGNEUS & NORTH TWIN 24,740 " " "


North Twin " 486.05 " 9,255 " " "

Ripogneus & North Twin " 35,467 " " "

Aug. 26, 1933: Small Ponds 5,439 " " "

Total Pansebect Storage 40,906 " " "

Aug. 22, 1932: Kennebec " 24,983 " " "

21,1932: " 22,240 " " "

A heavy rainfall occurred the latter part of the week, bringing the precipitation for the first 27 days of August up to 3.73" at Ripogneus and 3.97" at Millinocket.

WOOD ROOM ROOF

Job 1280

Five bays of the central portion (south end) are now concreted and the forms removed from the first two bays. Now building forms in the southwest corner.

Trusses in the west side of the roof will be entirely reinforced by to-morrow, Aug. 29th.

Making preparations to drop the third monitor truss into its new location.

The big motor which was taken out of the sulphite screen room is being overhauled in the electric repair shop before installing it in the basement floor.

No. 1 line completed and in service.

Piping for the other lines is carried along as far as possible until further material is received from Meyer Governor Co.

Work completed and the final charges will be collected as promptly as possible.

Nothing further can be done until the steel is received.

TAXROPE DRIVES

SULPHITE PUMPS

Job 1281

Job 1282

Meyer Governor

Revamp - Job

Adj. Fourdriner Chgs. #3 P.M.

Job 2144

FINISHING ROOM

Roof - J.2156

CUTTER, LAYBOY, Etc. Job 2157

ENGINEERING DEPARTMENT

The 70" cutter and layboy was dismantled Sunday, August 27th. It was loaded onto three trucks and they started for Madison just before noontime.

The 100" cutter and layboy was received at the mill Saturday, Aug. 25th. It is now being installed and will probably be ready to try out to-morrow morning, Aug. 29th.

Checked drawings of experimental Norton Filter application in Millinocket filter room, and the drawings for the Piling Conveyor Changes at East Millinocket.

Made charts for various tour arrangements to comply with 40-hour week. Started layouts for second suction press - No. 8 paper machine, and sulphite car shed at East Millinocket.

Issued Job Record 1283 - Boiler Blow-off Valves.

One man out on vacation.

Dict. RW

(Over)
William Hilton visited Tuesday, August 22nd.

S. B. Stafford visited Tuesday, August 22nd.

Roy Wagner of Carlock Packing Co. called Wednesday, Aug. 23rd.

Frank Partners of J. O. Ross Engineering Co. visited Thursday, August 24th.

Mr. Estes of Factory Insurance Association visited Saturday, August 26th.

Frank Pearson called to-day, August 28th.
SUBJECT | DETAIL
--- | ---
Water Storage | Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.  
August 21, 1933: " " " " - 22,556 " " "  
" 21, 1932: Total including Small Ponds - 40,914 " " "  
10 Yr. Avg. (Aug. 21st) Ripogenus & North Twin - 35,581 " " "  
August 21, 1933: Ripogenus Elev. 940.05 Storage 25,097 Mil. Cu. Ft.  
North Twin " 486.80 " 9,772 " "  
Ripogenus & North Twin " 34,869 " "  
August 19, 1933: Small Ponds " 8,436 " "  
Total Penobscot Storage " 43,305 Mil. Cu. Ft.,  
August 15, 1932: Total Kennebec Storage " 25,500 " "  
August 14, 1933: " " " " - 24,092 " " "  
During the first twenty (20) days of August, Ripogenus reported 2.31 inches of rainfall at Millinocket 1.48 inches was recorded.  
Two of the monitor trusses has been lowered and bolted into place. Formwork has been started on the South end of the roof, and three bays in the central portion are completed. First concrete will probably be poured to-morrow, August 22nd.  
Rope and Sheaves received at the mill to-day, August 21st. Electricians made the transfer of electric motors in the sulphite screen room Sunday, August 20th.  
Fourdrinier changes completed and the machine started up Wednesday, August 16th.  
Shoring and form lumber, and reinforcing mesh have been received and unloaded at the mill. Work completed until the new 100" cutter is received.  
Changes to equipment on No. 1 line completed and in service. Working on piping for other lines.  
Making layout for Norton filter application to Millinocket Filter Room.  
Completed drawings for East Millinocket Piling Conveyor Changes, Water Wheel driven Fire Pump, and Finishing Room Roof. Made estimate and issued job record on changes to Piling Conveyor at East Millinocket - Job 2158.  
Two men out on vacation.  
M. H. Teaze of H. S. Ferguson's office visited Tuesday, Aug. 15th. W. C. McKay and W. Hilton visited Wednesday and Thursday, August 16th and 17th respectively.

Diet. RVW

DATE MAILED | August 21, 1933
SIGNED | Engineer
FOR WEEK BEGINNING 8 A.M.  August 7, 1933  FROM Engineering Department  LETTER NO. 33

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus &amp; North Twin: 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>August 14th, 1932: Ripogenus Elev. 941.58 Storage 26,960 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>North Twin: 486.55 Storage 9,600 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>Total Penobscot Storage: 45,818 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>Aug. 8th, 1932: Total Penobscot Storage: 36,204 Mil. Cu. Ft.</td>
</tr>
</tbody>
</table>

During the first thirteen days of August, Ripogenus reported 2.22 inches of rainfall; at Millinocket, 1.27 inches was recorded.

Conv. Sect. Piling Out Conveyor Job 1264

Conveyor section for "A" tower on No. 2 piling out conveyor is installed. This completes the work on this job.

Work completed. Spruce Wood Department to take possession of the saw to-morrow, August 15th.

Two trusses the entire width of the roof should be completed reinforced by to-night, Aug. 14th. Six new trusses received.

New steel structure for the electric circuits to the barking plant has been erected, and the wires transferred onto it.

All of the loose gravel has been removed from the old waterproofing.

Drive material not yet received.

Electricians making preparations to transfer electric motors in the sulphite screen room.

Work started on the fourdrinier changes Sunday morning, Aug. 13th.

Mr. Zetterland, Rice-Barton & Fales Co.'s erector is on the job to aid the installation.

Cutters and Lay-boy equipment installed and now working quite satisfactorily.

Removing trolley beams, — part of old roll up-ending system — which is now obsolete and in the way of the new roof.

Oregon Fir for shoring has been received and unloaded at the mill.

Making drawings for East Millinocket Finishing Room Roof, Changes to Piling-out Conveyor and waterwheel driven fire pump.

Working on inventories and water reports.

One man on Wood Room Roof job at Millinocket furnishing engineering requirements.

One man on vacation.

Dict. RVW

(Over)
Miscellaneous

Mr. A. M. Tinker of the Ford Chain Block Co., called Tuesday, Aug. 8th.

E. W. Prouty returned from Waterville, Friday, Aug. 11th.

Mr. Delorie, of Fairbanks-Morse Co., called Monday, August 14th.

Mr. Higgins of Finch Pruyn Co., arrived to-day, August 14th.
### Water Storage

<table>
<thead>
<tr>
<th>Subject</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Capacity of Ripogenus and North Twin</td>
<td>45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>August 7th, 1932:</td>
<td>33,354 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>August 7th, 1932: Total including Small Ponds</td>
<td>42,752 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>August 7th, 1933: Ripogenus Elev. 942.58 Storage</td>
<td>28,200 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>North Twin 487.90</td>
<td>10,531 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>Ripogenus and North Twin</td>
<td>38,731 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>August 5th, 1933: Small Ponds</td>
<td>9,666 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>August 1st, 1932: Total Kennebec Storage</td>
<td>26,916 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>1933:</td>
<td>26,682 Mil. Cu. Ft.</td>
</tr>
</tbody>
</table>

For the month of July, Ripogenus reported 2.03 inches of rainfall; at Millinocket, 1.29 inches was recorded.

During the first six days of August, Ripogenus has reported 1.28 inches while 0.74 of an inch has been recorded at Millinocket.

New steel conveyor section for "A" tower of No. 1 piling-out conveyor entirely installed.

The steel conveyor section for "A" tower on No. 2 conveyor is progressing very well and should be completed in another day or two.

All of the long logs available have been cut up on the portable saw and it is now ready to be turned over to the Spruce Wood Department.

Structural steel for reinforcement of the trusses received and unloaded at the mill Saturday, August 5th.

Started building stagings this morning. Also building a dump bin to facilitate removal of old waterproofing, gravel, planking, etc.

Material not yet received.

Two carloads of equipment received from Rice, Barton & Fales on Friday and Saturday, August 4th and 5th respectively.

This installation is now completed.

The Seybold Press Cutter is all installed, ready for operation. The Dillon Rotary Cutter, Erie Layboy, and Roll Stands are practically all erected at this time, but it was found necessary to change the drive from the motor as it was going much too fast for good cutting conditions.

Working on electric circuits, trolleys, etc.

Making drawings for East Millinocket Finishing Room Roof and Changes to Piling Out Conveyor.

Worked on inventories and water reports, and Town work.

Three men on vacation this past week; only one out this week.
Frank Pearson visited, Monday & Tuesday, July 31st and August 1st, respectively.

William Hilton visited Tuesday, August 1st.

Harry Leathers of Babcock & Wilcox Company visited Tuesday, August 1st.

E. W. Prouty left for Waterville, Wednesday, Aug. 2nd.

Harry Rand, former H. J. Deutschbein Co.'s Timekeeper, called Wednesday, Aug. 2nd.

Fred Mears visiting today, August 7th.
## GREAT NORTHERN PAPER COMPANY
### WEEKLY NEWS LETTER

**FOR WEEK BEGINNING 8 A.M. July 24 1933 FROM Engineering Dept. LETTER NO. 31**

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water Storage</strong></td>
<td></td>
</tr>
<tr>
<td>Maximum Capacity of Ripogenus and North Twin</td>
<td>45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>North Twin</td>
<td>489.75 &quot;                  11,815 &quot;</td>
</tr>
<tr>
<td>July 29, 1933: Ripogenus and North Twin</td>
<td>40,128 &quot;</td>
</tr>
<tr>
<td>Small Ponds</td>
<td>9,978 &quot;                  &quot;</td>
</tr>
<tr>
<td>July 31, 1933: Total Kennebec Storage</td>
<td>28,409 &quot;</td>
</tr>
<tr>
<td>&quot; 24, 1933: Total Kennebec Storage</td>
<td>28,274 &quot;</td>
</tr>
<tr>
<td><strong>Cons. Sect. Piling Out Convey Job 1264</strong></td>
<td></td>
</tr>
<tr>
<td>Portable Saw Job 1275</td>
<td></td>
</tr>
<tr>
<td><strong>G. W. Storage Tank Roofs Job 1279</strong></td>
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<tr>
<td><strong>Wood Room Roof Job 1280</strong></td>
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<tr>
<td><strong>Tex rope Drives Sul. Pumps Job 1281</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Grill Protection at Dolby Job 2152</strong></td>
<td>Grillwork protection around switchboard completed except for painting.&lt;br&gt;Unloading trolley relocated into its new position.</td>
</tr>
<tr>
<td><strong>Engineering Department</strong></td>
<td>Making study of Norton Filters and Bull Screens for Millinocket. Working on drawings for Finishing Room roof and changes to Piling Out Conveyor for East Millinocket. In addition working on town maps, water reports, and laying out lots. Three men on vacation this week.</td>
</tr>
<tr>
<td><strong>Miscellaneous</strong></td>
<td>Mr. Allen of Bramen Dow Co. called Wednesday July 26th. F. G. Bowler left for Madison, Waterville and Augusta Thursday July 27th. Returned this morning, July 31st. L. O. Bidstrup of Ingersoll-Rand Co. visited Friday, July 28th.</td>
</tr>
</tbody>
</table>

**Dict. RVW**

 wag. J. C. Bowler, Engineer
FOR WEEK BEGINNING 8 A.M. | July 17, 33 FROM Engineering Department  LETTER NO. 30

**SUBJECT** | **DETAIL**
--- | ---
Water Storage | Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.
July 24, 1932: " " " " 35,375 " " "
July 24, 1932: Total including Small Ponds - 45,413 " " "
10 Yr. Avg. (July 24th) Ripogenus and North Twin - 38,736 " " "
July 24, 1933: Ripogenus Elev. 942.90 Storage 28,600 Mil. Cu. Ft.
North Twin " 491.45 " 13,005 " " "
Ripogenus and North Twin " 41,605 " " "
July 22, 1933: Small Ponds " 9,259 " " "
TOTAL PENOBSCOT STORAGE " 51,564 Mil. Cu. Ft.
July 18, 1932: Total Kennebec Storage " 29,739 Mil. Cu. Ft.
" 17, 1933: " " " " 29,725 " " "

For the first 23 days of July, Ripogenus has reported 1.96 inches of rain and Millinocket has recorded 1.11 inches.

Con. Sect. Filling Out Convey. Job 1264

Material for "A" towers received but work not started. The steel crew are busy repairing the drum barker at Ferguson Pond.

Portable Saw Job 1275

Gasoline engine installed and the saw tried out on a few pieces of wood the first part of the week. The wood was being cut a trifle short however, so the stop has been lengthened out. A guide for the saw blade itself has also been installed, and the unit is now ready for another trial. The gasoline engine apparently has plenty of power.

Sulphite Thickener Drives Job 1277

New drive equipment all installed and the job closed.

Tank Roofs Job 1279

The roof on the most southerly tank was completed Saturday, July 22nd, and put into commission Sunday the 23rd.
The roof on the other tank is completed except for the final coat of paint and this will be completed by to-night, July 24th.

Texrope Drives Sul. Pumps Job 1281

Texrope drive material not yet received.

Grill Protection at Dolby Job 2152

Grillwork protection around switchboard completed except for painting. The unloading trolley running the length of the building is being relocated about 4 feet upstream from its present location so that the chain from the trolley cannot possibly swing onto anything that is "alive".

F. S. Crowell of H. J. Deutschbein Co. visited Monday, July 17th, enroute to St. Croix Paper Co. where he is to prepare estimate for installing the 4-Ft. Great Northern type of grinders.
F. T. Dolbeare visited Wednesday, July 19th.
Harvey Cram visited Thursday, July 20th.
Oscar Hahnel and Leo Cormier of Hahnel Brothers visited Thursday, July 20th.
Mr. Wardwell, President of the Carthage Machine Works called Friday, July 21st.
Anton Haug visiting to-day, July 24th.
John McLeod 24th.

For the first 23 days of July, Ripogenus has reported 1.96 inches of rain and Millinocket has recorded 1.11 inches.

Material for "A" towers received but work not started. The steel crew are busy repairing the drum barker at Ferguson Pond.

Gasoline engine installed and the saw tried out on a few pieces of wood the first part of the week. The wood was being cut a trifle short however, so the stop has been lengthened out. A guide for the saw blade itself has also been installed, and the unit is now ready for another trial. The gasoline engine apparently has plenty of power.

New drive equipment all installed and the job closed.

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The roof on the other tank is completed except for the final coat of paint and this will be completed by to-night, July 24th.

Texrope drive material not yet received.

Grillwork protection around switchboard completed except for painting. The unloading trolley running the length of the building is being relocated about 4 feet upstream from its present location so that the chain from the trolley cannot possibly swing onto anything that is "alive".

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Mr. Wardwell, President of the Carthage Machine Works called Friday, July 21st.
Anton Haug visiting to-day, July 24th.
John McLeod 24th.
Engineering Dept.  

Studying possibilities of installing Norton Filter in Millinocket MMKMM Filter House; completed drawings of Millinocket Wood Room Roof; and making various design studies of Bull Screens.

working on drawings for uptake and return of Piling Out Conveyor; and Finishing Room Roof at East Millinocket.

In addition to this, prepared estimates and job records on work anticipated.
**FOR WEEK BEGINNING 8 A.M. July 10, 1933 FROM Engineering Department LETTER NO. 29**

**SUBJECT** | **DETAIL**
---|---
 | July 17, 1933: " " " " 36,293 " " "
 | July 17, 1932: Total including Small Ponds - 46,307 " " "
 | 10 Yr. Avg. (July 17th) Ripogenus & North Twin - 39,235 " " "
 | North Twin " 492.75 " 13,515 " " "
 | Ripogenus & North Twin " 42,540 " " "
 | July 15th, 1933: Small Ponds " 10,241 " " "
 | TOTAL STORAGE - PENOBSCOT 52,757 Mil. Cu. Ft.
 | July 11th, 1932: " " " " 30,347 " " "

For the first sixteen (16) days of July, Millinocket has recorded 0.57 of an inch of rainfall; Ripogenus has reported 1.66 inches.

Work completed on "B" towers.
Material for the "A" towers was received at the mill this morning and is unloaded at this writing.

Moving the belt conveyor in front of the two easterly wet machines, about 4" nearer the machines in order to get a little better dumping condition.

Gasoline engine received and is now practically all installed.
A tank for the gasoline and a hood over the engine is now being installed. Will be ready to try out within a few days.

New drive equipment installed on all eight (8) thickeners.

The old roof plates have been removed and the supporting structure has been thoroughly cleaned and given three coats of paint. It was found necessary to put some new steel in the most southerly tank.

The new roof plates were received this morning and were promptly unloaded and hauled to the job site. To save time, the steel was shipped direct from the mill in sheet form and will be cut to the proper shapes on the job.

Grillwork protection around switchboard structure and lightning arrestors is practically all installed.
There is an unloading trolley beam running lengthwise of the building that has yet to be moved.

Harry Leathers of Babcock & Wilcox Co., visited Tuesday, July 11th.
Mr. Passmore of Walworth Co., called Wednesday, July 12th.

**DATE MAILED**
July 17, 1933  
**SIGNED**  
[Signature] Engineer
Designing experimental installation of 3500 Lb. pressure pump for East Millinocket grinder room; designing new uptake for the East Millinocket Piling Out Conveyor and Steel Conveyor Sections over Sheaves on "A" and "B" Towers; working on drawings for Millinocket Wood Room Roof; making various studies on Bull Screens, white water lines for new wide machines, experimental conveyor for handling dry broke. In addition to this, working on town maps, and water records.
## Water Storage

<table>
<thead>
<tr>
<th>Subject</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Capacity of Ripogenus and North Twin</td>
<td>45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>July 10th, 1932:</td>
<td>&quot;                  36,122 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>July 10th, 1933:</td>
<td>Total Including Small Ponds = 45,837 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>10 Yr. Avg. (July 10th) Ripogenus &amp; North Twin</td>
<td>39,639 &quot; &quot; &quot;</td>
</tr>
<tr>
<td>North Twin &quot; 493.30 &quot; 14,200 &quot; &quot; &quot;</td>
<td></td>
</tr>
<tr>
<td>Ripogenus and North Twin &quot; 43,917 &quot; &quot; &quot;</td>
<td></td>
</tr>
<tr>
<td>July 8th, 1933: Small Ponds</td>
<td>10,159 &quot; &quot; &quot;</td>
</tr>
</tbody>
</table>

**TOTAL STORAGE AVAILABLE** 54,376 Mil. Cu. Ft.

For the first nine days of July, Millinocket has recorded 0.35 of an inch of rainfall; Ripogenus has recorded 0.68 of an inch of rainfall.

### Conveyor Sect.
- **Job 1264**
  - Work completed on both "B" towers.
  - Material for "A" towers not yet received.

### Piling out Con.
- **Holly Sulphite Sys. Job 1270**
  - Will be completed to-night and start operation to-morrow, July 11th.

### Wood Room Elec.
- **Job 1271**
  - Work suspended pending new Wood Room Roof - Job 1280.

### Wood Room Circuits
- **Job 1275**
  - Gasoline engine received -- drives, etc. are being assembled -- expect this to be ready for trial July 15th or 17th.

### Portable Saw
- **Job 1279**
  - Installed and in operation on four of the eight thickeners.

### Sulphite Thickener Drives
- **Job 1277**
  - F. L. Zollars, foreman for Chicago Bridge, is here removing roof from southerly tank. Part of his equipment has arrived but no material here yet. Mill crew making good progress on cleaning and painting old structural roof supports.

### Tank Roof
- **Job 1279**
  - Work under way in Item "B".

### Electrical Equipment
- **Job 2154**
  - No other Job Record work under way at Lower Mill.

### Engineering Department
- **Job 2154**
  - At work on town maps, studies on bull screens, white water conduit for wide machines, forms for new concrete roof, Lower Mill piling conveyor, design for installation experimental 3500 Lb. pressure pump, water records and inventories.

Dict. FCB
### GREAT NORTHERN PAPER COMPANY
#### WEEKLY NEWS LETTER

**FOR WEEK BEGINNING 8 A.M. June 26, 1933**

**FROM Engineering Department**

**LETTER NO. 27**

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Conv. Sect.</strong></td>
<td>The conveyor section on No. 1 &quot;B&quot; tower is practically all installed at this writing. Work on No. 2 &quot;B&quot; tower completed.</td>
</tr>
<tr>
<td><strong>Piling Out Conveyors</strong></td>
<td>The head and tail pulleys and drive for the two permanent conveyors in front of the easterly wet machines are installed in place.</td>
</tr>
<tr>
<td><strong>Job 1264</strong></td>
<td>Work on this job is about 70% completed.</td>
</tr>
<tr>
<td><strong>Holly Sul. Sys.</strong></td>
<td>The eccentric boxes have been received, but we are still waiting for the gasoline engine from the Spruce Wood Department.</td>
</tr>
<tr>
<td><strong>Job 1270</strong></td>
<td>Nothing further done this week.</td>
</tr>
<tr>
<td><strong>Wood Room Light &amp; Power Circuits</strong></td>
<td>The drive equipment has been received and is being installed on four of the thickeners to-day, July 1st.</td>
</tr>
<tr>
<td><strong>Job 1271</strong></td>
<td>Material received but work not started as yet.</td>
</tr>
<tr>
<td><strong>Exp. Portable Saw - Job 1275</strong></td>
<td>John Ross of Frank E. Ross Co., visited Wednesday, June 28th. Winn Willard of Link-Belt Co. visited Wednesday, June 28th. Mr. Delorie of Fairbanks-Morse Co. visited Friday, June 30th.</td>
</tr>
<tr>
<td><strong>Electrical Changes - Job 1276</strong></td>
<td></td>
</tr>
<tr>
<td><strong>New Sul. Thickeener Drives</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Job 1277</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Grill Protection, Dolby Switchboard</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Job 2152</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Miscellaneous</strong></td>
<td></td>
</tr>
</tbody>
</table>

**DATE MAILED** July 1st, 1933

**SIGNED**

![Signature]

**Engineer**
<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
</tr>
</thead>
</table>
| Water Storage | Maximum Capacity of Ripogenus and North Twin = 45,000 Mil. Cu. Ft.  
June 26th, 1932: Total including Small Ponds = 37,968 Mil. Cu. Ft.  
Ripogenus & North Twin 43,969 Mil. Cu. Ft.  
June 24th, 1933: Small Ponds 10,484 Mil. Cu. Ft.  
TOTAL STORAGE AVAILABLE = 54,453 Mil. Cu. Ft. |

Rainfall for the first twenty-five days of June was reported at Ripogenus as being 2.55 inches; at Millinocket 3.73 inches was recorded.

The steel conveyor section at the top of "B" tower on No. 2 piling out conveyor is all installed and a good start made on the "B" tower of No. 1 conveyor.

Work has been started on the two permanent conveyors to serve the two easterly wet machines.

Work on this job is approximately 65% completed.

Nothing further can be done until the gasoline engine and the eccentric boxes are received. The trailer is all built.

Items "A" and "E" have been completed. See Job Record.

The grill work and supporting steel have both been received by Dolby Switchboard so that work can now be started.

F. C. Bowler left for Boston Tuesday, Oct. 20th and returned Friday, Oct. 23rd.

Mr. P. A. Collins of Warren Steam Pump Co. called Wednesday, June 21st.

Mr. Pike of the Falk Gear Co., called Wednesday, June 21st.

Messrs. Wade & Richardson of the General Electric Co. visited Thursday and Friday, June 22nd and 23rd respectively.

Mr. D. M. Baker of D. M. Baker Co., visited Saturday, June 24th.

Dict. RVW
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin = 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>June 19th, 1932: &quot; &quot; &quot; &quot; 39,315 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>June 19th, 1932: Total including Small Ponds = 48,910 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>10 Yr. Avg. (June 19th) Ripogenus &amp; North Twin = 40,024 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>North Twin &quot; 493.60 &quot; 14,510 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>Ripogenus &amp; North Twin &quot; 44,382 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>June 17th, 1933: Small Ponds &quot; 10,348 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>TOTAL STORAGE AVAILABLE 54,730 Mil. Cu. Ft.</td>
</tr>
</tbody>
</table>

A heavy rainfall over the week-end netting Ripogenus 1.82" and Millinocket 2.34" has brought the total for June to-date -- Ripogenus 1.90" and Millinocket 3.00".

Conv. Sect. Piling Out Conv. Steel conveyor section at the top of "B" tower on No. 2 piling out Job 1284 conveyor is practically all erected. One or two more days will complete it.

Holly Sulphite Permanent conveyors for the two easterly wet machines not installed Job 1270 yet.

Wood Room Light Not very much accomplished on this work the past week. The job Light & Power Circuits is a little better than 60% done Job 1271

Experimental The trailer for the saw has been completed, painted, and hauled Portable Saw out into the yard ready for operation as soon as the saw is re-modeled. Job 1275 The gasoline engine has not been received yet from the Spruce Wood Department. The saw frame is re-modeled ready to receive the gasoline engine when it arrives.

Grill Protection Grill work not received as yet. Job 2152

Miscellaneous Mr. A. E. Smith of the Bernitz Furnace Appliance Co. has been visiting since Friday, June 16th.

Dict. RVW
<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin = 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>June 12th, 1933: &quot; &quot; &quot; &quot; = 39,842 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>June 12th, 1932: Total including Small Ponds = 49,838 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>10 Yr. Avg. (June 12th) Ripogenus &amp; North Twin = 39,788 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>June 12th, 1933: Ripogenus Elev. 943.80 Storage 29,745 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>North Twin &quot; 494.05 &quot; 14,325 &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>June 10th, 1933: Small Ponds &quot; 10,342 &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>TOTAL STORAGE AVAILABLE 54,912 Mil. Cu. Ft.</td>
</tr>
</tbody>
</table>

For the first eleven days of June, Millinocket has recorded 0.66 of an inch of rainfall; Ripogenus has not reported any.

Steel conveyor section at the top of "B" tower on No. 2 piling out conveyer is in place and partially riveted.

Purchase order for the material required for the "A" towers not yet received.

Material for the permanent conveyor in front of the two easterly wet machines not all received yet.

Work on this job is about 60% completed.

Steel framework for trailer mounted on runners. Gears, bearings, etc., received and starting to assemble same.

Gasoline engine for the saw not received from the Spruce Wood Department.

Closing up the job.

Structural Steel supports received, but the grill work has not yet arrived.

Jordan in operation. Job to be closed.

F. A. Collins of Warren Steam Pump Co. called Wednesday, June 7th.

F. T. Dolbere visited Wednesday & Thursday June 7th and 8th respectively.

Dict. RVW

June 12, 1933               Engineer.
<table>
<thead>
<tr>
<th>Subject</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin  - 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>June 5th, 1932: ' ' ' ' ' '  - 39,883 ' ' ' ' ' '</td>
</tr>
<tr>
<td></td>
<td>June 5th, 1932: Total including Small Ponds  - 49,737 ' ' ' ' ' '</td>
</tr>
<tr>
<td></td>
<td>10 Yr. Avg. (June 5th) Ripogenus &amp; North Twin  - 39,115 ' ' ' ' ' '</td>
</tr>
<tr>
<td></td>
<td>North Twin  ' 494.30 ' 15,000 ' ' ' ' ' '</td>
</tr>
<tr>
<td></td>
<td>Ripogenus &amp; North Twin  ' 44,834 ' ' ' ' ' '</td>
</tr>
<tr>
<td></td>
<td>June 3rd, 1933: Small Ponds  - 10,457 ' ' ' ' ' '</td>
</tr>
<tr>
<td></td>
<td>TOTAL STORAGE AVAILABLE 55,291 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>Charges set up to complete work and the job closed.</td>
</tr>
<tr>
<td>Paint Shop Job 1262</td>
<td>Work completed and the job closed.</td>
</tr>
<tr>
<td>3 Add'l. Grds. &amp; Wd. Rm.</td>
<td>Work has been started installing the steel conveyor section on the &quot;B&quot; tower of No. 2 piling out conveyor.</td>
</tr>
<tr>
<td>Job 1263</td>
<td>Purchase Order for the material required for the &quot;A&quot; towers not yet received.</td>
</tr>
<tr>
<td>Conveyor Sect. Piling Out</td>
<td>System working good on all six wet machines. The stock is being carried away from the two easterly wet machines by temporary conveyors of canvas. Material for a permanent conveyor ordered.</td>
</tr>
<tr>
<td>Conveyors Job 1264</td>
<td>General Electric are welding outfit received and assembled on its movable truck.</td>
</tr>
<tr>
<td>Holly Sulphite Sys. J-1270</td>
<td>Structural Steel framework for the trailer has been welded together and the hardwood runners are now being made in the shop. Rolls, shafting, etc. being machined in shop.</td>
</tr>
<tr>
<td>Electric Arc Welding Outfit</td>
<td>System in operation.</td>
</tr>
<tr>
<td>Job 1274</td>
<td>Jordan put in operation Wednesday, May 31st and is now running very satisfactorily.</td>
</tr>
<tr>
<td>Exp. Portable Saw - J-1275</td>
<td>J. E. Waterhouse of Montague Machine Co. visited Thursday, June 1st.</td>
</tr>
<tr>
<td>Holly Unloading Sys. Job 2150</td>
<td></td>
</tr>
<tr>
<td>Emerson Jordan No. 3 Paper Mach Job 2153</td>
<td></td>
</tr>
<tr>
<td>Miscellaneous</td>
<td></td>
</tr>
</tbody>
</table>

Dict. RVW
## Subject: Water Storage

<table>
<thead>
<tr>
<th>Date</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 29th, 1932</td>
<td>Total including Small Ponds: 38,983 ft. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td><strong>TOTAL AVAILABLE STORAGE</strong> 54,983 ft. Cu. Ft.</td>
</tr>
</tbody>
</table>

Precipitation for the month of May to date is reported as being 2.51" at Ripogenus; Millinocket has recorded 1.72".

One steel paint cupboard complete except for doors.

The stone dismantling device will be completed to-night, May 29th, and the job closed.

All six wet machines equipped and in operation. Five inch pipe line ample.

The electric arc welding outfit from the General Electric Company was received at the mill this morning, May 29th.

Steel frame for the trailer is being fabricated in the shop, now being welded.

System in operation and is working much better.

Foundation concreted Saturday, May 27th, and the jordan placed on it to-day.

Motor all overhauled and ready to be placed on foundation. New Electric Circuit coming good and electricians hope to be ready as soon as the jordan — probably about Wednesday or Thursday of this week.


Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.

May 22nd, 1932:
- " " 
- 38,580 " " "

May 22nd, 1933:
- Total including Small Ponds - 48,689 " " "
- 10 Yr. Avg. (May 22nd) Ripogenus & North Twin - 37,400 " " "

May 22nd, 1933:
- North Twin " 494.40 " 15,970 " " "
- Ripogenus and North Twin " 45,044 " " "

May 20th, 1933:
- Small Ponds " 10.148 " " "

TOTAL AVAILABLE STORAGE 55,192 Mil. Cu. Ft.

Precipitation for the first twenty-one (21) days of May at Ripogenus is reported as being 1.59"; Millinocket has recorded 0.86".

Wednesday, May 17th, put back one of the 10" flashboards that had been removed on the 357 Ft. section at Quakish. Saturday, May 20th, put on the second 10" board; only one 10" board off at this writing.

Completed except for steel paint cupboards which are being built in the shop during spare time.

Working on stone-dismantling device; should be completed this week.

Material ordered for new conveyor in front of remaining two wet machines.

Refilling bevel friction with rubber belting because the present one does not take hold good. Making a new crank for the saw tilting device out of forged steel. Mr. Therien went to Greenville Wednesday and Thursday, May 17th and 18th respectively, and with Mr. Harkness of the Spruce Wood Department picked out a suitable gasoline engine for the saw when it goes into the woods.

System in operation. Making changes from time to time in an attempt to improve the system.

The Emerson jordan arrived at the mill this morning, May 22nd. Electricians overhauling old 300 H.P. motor so as to put it in good running condition before hooking up to jordan.

Started piling out groundwood at 4 P.M. Tuesday, May 16th. Put new oak wearing strips on log sluice gate at North Twin Dam, Wednesday, May 17th.

John McLeod visited Wednesday and Thursday, May 17th and 18th respectively.


Dict. RVW

DATE MAILED: May 22, 1933

SIGNED: E. Bowler, Engineer
<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>May 15th, 1932: &quot; &quot; &quot; &quot; &quot; &quot; 37,610 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>May 15th, 1932: Total including Small Ponds - 47,408 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>10 Yr. Avg. (May 15th) Ripogenus &amp; North Twin - 35,418 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>May 15, 1933: Ripogenus Elev. 944.00 Storage 30,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>North Twin &quot; 491.90 Storage 13,320 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>Ripogenus &amp; North Twin &quot; 43,320 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>May 13th, 1933: Small Ponds &quot; 9,559 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>TOTAL AVAILABLE STORAGE &quot; 52,879 Mil. Cu. Ft.</td>
</tr>
</tbody>
</table>

Precipitation for the first fourteen days of May at Ripogenus is reported as being 1.24"; Millinocket has recorded 0.79".

Opened all four waste gates at Quakish Thursday morning, May 11th, at 8 A.M. to start wasting at rate of 1750 c.f.s. Removing 357 Ft. of flashboards at Quakish and 221 Ft. at Dolby this afternoon, May 15th, to increase total flow (including mill use) to about 7800 c.f.s.

New tables completed. Now building steel cupboards for storage of paint.

Pattern work for the stone dismounting device completed and sent out to the foundry for casting.

A fifth wet machine was put onto the system the latter part of the week by means of a temporary conveyor. No trouble experienced with 5" pipe line.

The new castings for the frictions have been received from the foundry, but are not finished yet. New linkage controlling the frictions all made and ready to install on saw.

Material required for trailer requisitioned and drawings in hands of Master Mechanic.

Auditing Department working on the final figures.

System working but still being bothered with occasional plugging.

Mr. White of Morse Chain Co., called Tuesday, May 9th.
Mr. William Hilton visited Tuesday, May 9th.
Mr. E. F. Jones of Spruce Wood Department, called Wednesday, May 10th.
Mr. Charles Eklund of H. J. Deutschbein Co. visiting to-day, May 15th.
### Water Storage

<table>
<thead>
<tr>
<th>Subject</th>
<th>Detail</th>
</tr>
</thead>
</table>
| **Maximum Capacity of Ripogenus and North Twin** | May 8, 1932: Ripogenus Elev. 941.35 Storage 26,679 Mil. Cu. Ft.  
North Twin 490.30 " 12,200 "  
Ripogenus & North Twin 38,879 "  
May 8, 1932 Total including Small Ponds 44,082 "  
10 Yr. Avg. (May 8th) Ripogenus and North Twin 31,646 "  |
| **TOTAL AVAILABLE STORAGE** | 48,077 Mil. Cu. Ft. |

Precipitation at Ripogenus for the first seven days of May is reported as being 0.27 of an inch; Millinocket has recorded 0.19 of an inch.

Two large steel cabinets to be made by mill for storage of paints.

Heating system for Grinder Locker Room and Lockers now completed.  
Starting pattern work for the stone dismantling device.  
Gears, etc., received sometime ago.

Gratings installed over water sluiceway in the wood room.

Four wet machines operating on system nicely. Starting a layout for conveyors so that the remaining two wet machines may be used.

The experimental portable saw was hauled out to the mill log pond Wednesday, May 3rd, and tried out in the afternoon.

Considering that this saw is a new piece of machinery, it worked very well. The frictions, however, aren't quite big enough and the linkage and leverage system operating the frictions are not rigid enough. New designs for these items have been made and are in the hands of the Master Mechanic.

This job is practically completed and will be closed promptly.

### Miscellaneous

Job completed except for piping new color tanks to system.

System in operation and working quite well.

Mr. Held of the Holly Pneumatic people visited Millinocket and East Millinocket on Tuesday and Wednesday, May 2nd and 3rd respectively.

Mr. Roy Wagner of Garlock Packing Co. called Tuesday, May 2nd.

Mr. Charles Eklund, local H. J. Deutschbein Co.'s Supt., visited Tuesday, May 2nd.

Mr. Knight of the Timken Roller Bearings Co. called Thursday, May 4th.

Mr. F. C. Bowler visited Madison, May 5th and 6th.
<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
</tr>
</thead>
</table>
| Water Storage | Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.  
May 1st, 1933: """" - 29,660 """"  
"""" Total including Small Ponds - 36,442 """"  
10 Year Avg. (May 1st) Ripogenus & North Twin - 25,841 """"  
May 1st, 1933: Ripogenus Elev. 935.45 Storage 19,842 Mil. Cu. Ft.  
North Twin " 488.00 " 10,600 "  
Total Ripogenus & North Twin 30,442 "  
April 29, 1933: Small Ponds 5,653 "  
TOTAL AVAILABLE STORAGE 36,095 Mil. Cu. Ft.  
Precipitation for the month of May at Ripogenus was reported as 4.53 inches. Millinocket recorded 4.60 inches.  
Building steel tables.  
Work yet to be done: Finish erection of traveling crane, racks for barrels, rope falls, etc; and, paint out the inside of the building.  
One of the long duct systems for the lockers in the Grinder Locker Room is completed and in operation. The second one is in place ready to be grouted.  
Work yet to be done: Install Blaw-Knox gratings over water sluiceway in Wood Room; and, build stone dismantling device for Grinder Room.  
Four wet machines were operated on the system for a short time the latter part of the week.  
Assembly of the experimental portable wood saw mill will be practically completed by to-night, May 1st.  
Mixing up a batch of size and making preparations to put system into operation to-day, May 1st.  
Also mixing up a batch of alum to try out to-day, May 1st.  
Agitators, and drive for same, installed in the new color tanks. Job completed except for piping the new tanks to the system.  
System in operation, but have been bothered with plugging several times.  
Mr. Held of the Holly Pneumatic Co. due to arrive on to-night's train, May 1st.  
Repaired Fishway at North Twin Dam, Thursday, April 27th.  
Harry H. Leathers of Babcock & Wilcox Co. called Saturday, April 29th.  
Dict. RWW |
## Water Storage

<table>
<thead>
<tr>
<th>Subject</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Capacity of Ripogenus and North Twin</td>
<td>April 24, 1932: 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td>April 24, 1933: Ripogenus Elev. 930.18 Storage: 14,458 Mil. Cu. Ft.</td>
<td></td>
</tr>
<tr>
<td>North Twin &quot; 486.75 &quot; 9,738 &quot; &quot; &quot;</td>
<td></td>
</tr>
<tr>
<td>Total Ripogenus &amp; North Twin: 24,196 &quot; &quot; &quot;</td>
<td></td>
</tr>
<tr>
<td>April 22, 1933: Small Ponds: 3,850 &quot; &quot; &quot;</td>
<td></td>
</tr>
</tbody>
</table>

During the first 24 days of April, Ripogenus reported 3.47 inches of precipitation and Millinocket recorded 3.88 inches.

## Paint Shop

- **Job 1262**
  - 3 Add'l. Grids
  - Job 1263

## Holly Sulphite Loading Sys.

- **Job 1270**
  - Exp. Portable Saw - Job 1275

## Alum, Clay & Size Equipment

- **Job 2147**
  - Trimby Mixer Changes - Job 2148
  - Holly Unloading System - Job 2150

## Miscellaneous

- Dict. RW

---

**Racks for the Ladders completed.**

**One of the ducts is in place in the Grinder Locker Room and the lockers mounted on same. Storeroom under the unloading platform completed.**

**New equipment installed.** Ship two carloads of sulphite to East Millinocket so far. Only one wet machine has been used to date so as not to get too much, pulp ahead at East Millinocket. Fixing up 3 more wet machines so as to have four ready to run to-morrow morning.

**Gears did not arrive this morning, April 24th. Bearings and universal joints received during the week, but work will be held up again to-night awaiting arrival of the gears.**

**Size pump received and installed.** Pipe line to mixer and overflow back to tank also installed. This system completed except for installation of an energizer in the size mixing tank. Alum system complete except for 1" lead overflow pipe back from mixer to alum tank; pipe line from mixer to the paper machine; and, steam pipe into alum tank itself. Clay system completed and in operation.

**New color tanks completed except for agitators and pipe line to color system.**

**New material received and installed.** The system was put into operation this morning, April 24th. Ran from 10 A.M. until 2 P.M. at which time, rotary lock became plugged. Put the old 4 compartment rotor back in and started up again in order to make changes to the new 5 compartment.

Mr. George Ordway, Barrett Roof Inspector, visited Wednesday, April 19th.
<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
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<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin = 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>April 17th, 1932: &quot; &quot; &quot; &quot; = 18,898 &quot; &quot; &quot; &quot;</td>
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<tr>
<td></td>
<td>Total Including Small Ponds = 19,715 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>10 Yr. Avg. (Apr. 17th) Ripogenus &amp; North Twin = 18,231 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>April 17th, 1933: Ripogenus Elev. 926.85 Storage 11,391 Mil. Cu. Ft. West Twin &quot; 483.95 &quot; 7,816 &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>Total Ripogenus and North Twin 19,207 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>During the first 16 days of April, Ripogenus reported 3.35 inches of precipitation and Millinocket recorded 3.48 inches.</td>
</tr>
<tr>
<td></td>
<td>Inactive.</td>
</tr>
<tr>
<td>Paint Shop</td>
<td>One of the long ducts is in place within the Grinder Locker Room. Heaters and ductwork outside of Locker Room in place.</td>
</tr>
<tr>
<td>Job 1262</td>
<td>New material received from the Holly Pneumatic people this morning, April 17th.</td>
</tr>
<tr>
<td>3 Add'l. Crds.</td>
<td>Old equipment being dismantled to make room for the new.</td>
</tr>
<tr>
<td>Job 1263</td>
<td>Erection of saw started but practically held up at this writing awaiting the arrival of gears from Foote Bros. and bearings and universal joints from Bellamy, Robie &amp; Sargent.</td>
</tr>
<tr>
<td>Holly Sulphite Loading Sys.</td>
<td>Pump and pipe line for the size storage system yet to be installed.</td>
</tr>
<tr>
<td>Job 1270</td>
<td>Three new wooden color tanks erected in color room. Now working on agitators and drives for same.</td>
</tr>
<tr>
<td>Exp. Portable Saw - Job 1275</td>
<td>New material arrived at Millinocket this morning, April 17th, and will be at East Millinocket Tuesday morning April 18th.</td>
</tr>
<tr>
<td>Alum, Clay &amp; Size Equipment</td>
<td>A start was made this morning on the dismantling of the old equipment.</td>
</tr>
<tr>
<td>Job 2147</td>
<td>Holly Unloading System - Job 2150</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>Frank Pearson called Monday, April 10th. Adolph Meyer visited Monday, Tuesday and Wednesday, April 10th, 11th and 12 respectively.</td>
</tr>
</tbody>
</table>
FOR WEEK BEGINNING 8 A.M. April 3, 1933 FROM Engineering Dept. LETTER NO. 15

SUBJECT | DETAIL
--- | ---
Water Storage | Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.
| April 10, 1933: " " " " = 12,948 " " "
| " " " Total including Small Ponds = 12,948 " " "
| 10 Yr. Avg. (Apr. 10th) Ripogenus & North Twin = 15,696 " " "
| April 10th, 1933: Ripogenus Elev. 927.40 Storage 11,885 Mil. Cu. Ft.
| North Twin " 482.60 " 6,996 " " "
| Total Ripogenus & North Twin 18,783 Mil. Cu. Ft.

During the first nine days of April, Ripogenus reported 3.35 inches of precipitation and Millinocket recorded 3.33 inches.

Paint Shop | New quarters being occupied, but there is considerable work in the form of ladder racks, shelves, cupboards, etc., yet to be done.
Job 1262 | Modine heaters, pipe supply to same, and the ductwork down the outside of the wall and under the floor to the inside of locker room are completed.
3 Add'l. Grds. | Ductwork for the lockers to sit on is still being fabricated in the shop.
Job 1263 | Using present system to the extent that the sulphite can be unloaded at East Millinocket.
Holly Sulphite | Structural Steel framework for the saw received and unloaded this morning.
Loading Sys. | Pattern work and foundry work completed.
Job 1270 | Shafts all made and the pulley sheaves, sprockets, frictions, etc., pressed on.
Exp. Portable | Gears from the Foote Bros. and bearings and universal joints from Bellamy, Robie & Sargent not received yet.
Saw - Job | Pump for the size storage tank and pipe line to the Trimby Mixer yet to be installed.
1275 | Clay system in operation.
Alum, Clay & | Built three small wooden color tanks and installed in color room.
Size Equip. | Agitators yet to be installed in them.
Job 2147 | Installing size metering box onto one of the Trimby Mixers.
Trimby Mixer | Making preparations to build old eight compartment rotor over into a five compartment rotor as soon as parts are received from Holly people.
Changes Job | Mr. W. Allen, Engineer for the Portland Co., visited Wednesday, April 5th.
2148 | Mr. W. O. McKay visited Millinocket and East Millinocket Thursday, April 6th.
Holly Unloading | Mr. L. V. Knight of Johns-Manville Co. visited Monday, April 10th.
System - Job | 
2150 | Dict. RWV

DATE MAILED April 10th, 1933 SIGNED -

FORM 17
<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
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<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>April 3rd, 1932: &quot; &quot; &quot; &quot; &quot; &quot; Total including Small Ponds - 11,986 &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>10 Yr. Avg. (April 3rd) Ripogenus &amp; North Twin - 15,182 &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>North Twin &quot; 481.20 &quot; 5,954 &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>Total Ripogenus &amp; North Twin 19,235 Mil. Cu. Ft.</td>
</tr>
</tbody>
</table>

For the month of March, Ripogenus reported 1.92 inches of precipitation and Millinocket recorded 2.95 inches.

Paint Shop
Job 1262
Painters moved into their new quarters Tuesday, March 28th. There is still considerable work to be done yet however, in the way of shelves, ladder racks, cupboards, etc. Old shop all demolished, debris hauled away, and site filled in with coal ashes.

Rossers & 3 Add'l. Grds.
Job 1263
Wood Room completed with exception of some grating over the 4-Ft. water sluice. This material is requisitioned, but not purchased yet. Underground ducts for the heating installation in the Grinder Locker Room are in place and Modine Heaters are received. There is a week or ten days more work in the shop yet on the balance of the ductwork.

Holly Sulphite
Loading System
Job 1270
Drawings revised and material ordered for the new equipment. Using the present equipment to the extent that it can be unloaded at the East Millinocket mill.

Experimental
Portable Saw
Mill No. 1
Material all ordered.
One or two days more will finish pattern work for the castings that are to be cast locally.
Job Record covering this work will be issued to-morrow, April 4th.

Alum, Clay & Size Equipment
Job 2147
Plaster partition work completed, doors installed, and steelwork painted.
The Duriron pipe system from the Alum pump to the Trimbey Metering Box is installed.

Holly Sulphite
Unloading Sys.
Job 2150
Drawings revised for new recipient and water filter. Using present system as much as possible.

Miscellaneous
Penobscot mills shut down Saturday, April 1st, because production had exceeded sales.

Dict. RWV

DATE MAILED
April 3, 1933

SIGNED
Engineer
SUBJECT

Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.
March 27th, 1932

Total Including Small Ponds - 12,425 " " "

10 Yr. Avg. (March 27th) Ripogenus & North Twin - 15,705 " " "

March 27th, 1933: Ripogenus Elev. 930.16 Storage 14,439 Mil. Cu. Ft.
North Twin 482.20 6,626 " "

Total Ripogenus and North Twin 21,065 Mil. Cu. Ft.

For the first twenty-six days of March, Ripogenus has reported 1.92 inches of precipitation and Millinocket has recorded 2.95 inches.

Cement plaster work for the toilet and shower bath partitions is completed.
A suitable sink has been made up and installed. The shower bath and toilet fixtures are installed also.
Steelwork for the hand operated traveling crane is now being installed.
New conveyors and equipment in the Wood Room in operation.
Work on the heating installation in the Grinder Locker Room progressing very slowly.

Inactive until new material is received from the Holly people.

Structural steel framework for saw to be requisitioned to-day, March 27th. Balance of material, such as shafting, can be picked up at the mill.
Mill making patterns for the foundry work.

Tanks all erected. Duriron pump for the Alum system installed and a start made on the piping for same.
Size system completed except for a pump for the size storage tank. This pump has been ordered and should arrive in the near future.
(Original pump for this service used with the clay system in order to mix in one tank and store in the other one).
Cement plaster work on the partition is now completed.

Made changes in the recipient during the week but it still plugs.

F. C. Bowler returned from vacation Friday, March 24th.
### SUBJECT

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<tr>
<th>Water Storage</th>
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<tbody>
<tr>
<td><strong>DETAIL</strong></td>
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<tr>
<td>Maximum Capacity of Ripogenus and North Twin</td>
</tr>
<tr>
<td>March 20th, 1932</td>
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<td>&quot; &quot;</td>
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<td>&quot; &quot;</td>
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<tr>
<td>10 Yr. Avg. (Mar. 20th) Ripogenus and North Twin</td>
</tr>
<tr>
<td>North Twin &quot; 483.70 &quot;</td>
</tr>
<tr>
<td>Total Ripogenus and North Twin</td>
</tr>
</tbody>
</table>

For the first nineteen days of March, Ripogenus has reported 1.16 inches of precipitation and Millinocket has recorded 1.97 inches.

- Installing steel and hy-rib for the cement plastered partitions.
- Pipers installing pipe and plumbing fixtures.
- Apron conveyor at discharge end of the drums, and dump from same into the water sluice, are completed.
- Galvanized iron ductwork for heater system in the Grinder Locker Room is being fabricated in the mill shop.
- Mr. H. Held of the Holly Pneumatic Systems, Inc., left Wednesday night. System idle.

All of the material detailed and requisitioned except steel I-Beam frame. New drawing being made to conform with the details as they have been worked out. Steel frame can then be detailed and either made at mill or purchased if necessary.

- Mill pattern-maker making patterns for the castings that are to be made at the Millinocket Foundry Co.

- Completed elevator and platform for the Alum Tanks.
- Hy-rib all installed for the partition around the Clay and Size Storage Tanks, and a start made on the plastering of same.

Mr. Held of the Holly Pneumatic Systems, Inc., left Wednesday night.

Mr. S. B. Stafford of Rice-Barton & Fales Co. visited Tuesday, March 14th.

Mr. Turner of Westinghouse Electric Co., visited Wednesday, March 15th.

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**Dict. RW**
FOR WEEK BEGINNING 8 A.M.  March 6, 1933 FROM Engineering Department LETTER NO. 11

SUBJECT: Water Storage

Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.
March 13, 1932 " " " " - 14,712 " " " "
" " Total including Small Ponds - 14,712 " " " 
10 Yr. Avg. (Mar. 13th) Ripogenus and North Twin 18,542 " " " "

North Twin " 485.60 " 8,944 " " " "

Total Available Storage 23,901 Mil. Cu. Ft.

For the first twelve days of March, Ripogenus has reported 0.75 of an inch of precipitation and Millinocket has recorded 1.06 inches.

Nothing further accomplished.

Apex conveyor at discharge end of drums completed.
Four-foot hydraulic wood splitter installed.
Tinsmith making up galvanized iron ductwork for heater system in the Grinder Locker Room.

Mr. H. Held of the Holly Pneumatic Systems, Inc., arrived this morning March 13th, to inspect our equipment and make recommendations.

All tanks now erected.
Installing steel and hyrib for the plaster partition around the clay and size tanks.

Mr. Held of the Holly Pneumatic Systems, Inc., and Messrs. Carrier and Weldon went over this installation this morning, March 13th, and made recommendations for changes. System to be tried again to-morrow morning, March 14th.

Messrs. J. M. Wade and E. Richardson of the General Electric Co. visited Wednesday and Thursday, March 8th and 9th respectively.
Mr. Harry Leathers of Babcock & Wilcox Co. visited Thursday and Friday, March 9th and 10th respectively.
Mill shut down about 6 A.M. Saturday, March 11th because of anchor ice.

Dict. RVW

DATE MAILED  March 13, 1933
SIGNED  Roy H. Held  Asst. Engineer.
SUBJECT

Water Storage

DETAIL

Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.
March 5, 1932:
" " " " = 15,475 " " "
" 6, 1932: Total including Small Ponds - 15,475 " " "
10 Yr. Avg. (March 6th) Ripogenus and North Twin - 19,626 " " "

March 6, 1933: Ripogenus Elev. 931.25 Storage 15,495 Mil. Cu. Ft.
North Twin " 486.55 " 9,600 " " "

Total Available Storage 25,095 Mil. Cu. Ft.

For the month of February, Ripogenus reported 2.29 inches of precipitation, and Millinocket recorded 2.53 inches.

Sprinkler system installed and concrete floor patched.

Apron conveyor at discharge end of drums erected and the drive installed already for the electricians to hook up.
Foundation for hydraulic 4-Ft. wood splitter concreted and the splitter now being installed.
Re-built the 4-Ft. rossers so as to make them operative by one man instead of two.

Equipment installed. Running one wet machine to-day to try out the system, and at this writing it is operating very good, but the rotary lock will have to be speeded up before all the wet machines are put on.

Clay tanks in operation.
Size and alum tanks erected.
Steel and hyrib for the plaster partition around the clay and size tanks now being erected.

Equipment all installed and ready for trial.

Mr. A. P. Lane visited Tuesday and Wednesday, Feb. 28th and March 1st respectively.
Mr. John McLeod visited Friday and Saturday, March 3rd and 4th respectively.

SIGNED

Asst. Engineer.
<table>
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<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
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</table>
| Water Storage           | Maximum Capacity of Ripogenus and North Twin: 45,000 Mil. Cu. Ft.  
                         | Feb. 27, 1932: Ripogenus Elev. 932.73 Storage 16,990 Mil. Cu. Ft.  
                         | North Twin 486.50 " 9,565 "  
                         | 10 Yr. Avg. (Feb. 27th) Ripogenus & North Twin 20,712 "  
                         | Feb. 27, 1933: Ripogenus Elev. 932.73 Storage 16,990 Mil. Cu. Ft.  
                         | North Twin 486.50 " 9,565 "  
                         | Total Ripogenus and North Twin 26,555 Mil. Cu. Ft.  
                         | For the first 26 days of February, Ripogenus reported 1.90 inches of precipitation and Millinocket recorded 2.35 inches.  
                         | Sprinkler system will be completed by to-night, Feb. 27th.  
                         | Grinders all installed.  
                         | New up-take conveyor to drums in operation.  
                         | New apron conveyor at discharge end of drums erected and steel bents being grouted to-day. Conveyor now ready for the drive.  
                         | New chip conveyor belt drive installed Monday, Feb. 20th, and was put into operation Tuesday morning, Feb. 21st. It is running very satisfactorily.  
                         | Material all received except 5" diameter flexible hose from the Holly Pneumatic people.  
                         | The five inch discharge line is installed out as far as the railroad track. The rotary lock is being placed in position in the pit and the new 16" belt conveyor supports and drive for same are practically all erected.  
                         | Size tanks and clay tanks are completed and ready to be put into operation.  
                         | Steel for alum tank erected.  
                         | The recipient, rotary lock, blower and motors for same are all installed in place.  
                         | Suction pipe from the carshed to the recipient practically all erected. Likewise, the air piping from the blower to the recipient is practically all erected.  
                         | Mr. William Messinger of Messinger Bearings, Inc. visited to-day, Feb. 27th.  
| Paint Shop Job 1262     |                                                                                                                                 |
| Rosser's and 3 Add'l Grds. Job 1263 |                                                                                                                                 |
| Chip Conveyor Job 1269 |                                                                                                                                 |
| Holly Sulphite Loading System Job 1270 |                                                                                                                                 |
| Alum, Clay & Size Equip. Job 2147 |                                                                                                                                 |
| Holly Unloading Equipment Job 2150 |                                                                                                                                 |
| Miscellaneous           |                                                                                                                                 |

Dict. RVW
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<th>SUBJECT</th>
<th>DETAIL</th>
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<tbody>
<tr>
<td></td>
<td>&quot; &quot; &quot; &quot; - Total including Small Ponds = 17,841 &quot; &quot; &quot; 10 Year Average (Feb. 20th) Ripogenus and North Twin = 21,917 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>For the first 19 days of February, Ripogenus reported 1.01 inches of precipitation and Millinocket recorded 1.53 inches.</td>
</tr>
<tr>
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<td>Concrete floor patched where old equipment was removed. Pipers installing new sprinkler system.</td>
</tr>
<tr>
<td>Paint Shop</td>
<td></td>
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<tr>
<td>Job 1262</td>
<td></td>
</tr>
<tr>
<td>Rossers &amp; Three Add'l. Grds.</td>
<td></td>
</tr>
<tr>
<td>Job 1263</td>
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</tr>
<tr>
<td><strong>Chip Conveyor Drive - Job</strong></td>
<td>Installing new chip conveyor belt drive to-day, Feb. 20th. Will be ready for service to-morrow morning (Tuesday Feb. 21st) at 8 A.M.</td>
</tr>
<tr>
<td>1269</td>
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<tr>
<td><strong>Holly Sulphite Loading</strong></td>
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<tr>
<td>System Job 1270</td>
<td></td>
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<tr>
<td><strong>Alum, Clay &amp; Size</strong></td>
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<tr>
<td>Equipment Job 2147</td>
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<tr>
<td><strong>Holly Unloading</strong></td>
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<tr>
<td><strong>Equipment - Job 2150</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Miscellaneous</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Changes in floor steel completed to-night so that concrete pit for Holly equipment may be made.</td>
</tr>
<tr>
<td></td>
<td>Five inch steel pipe received at mill this morning and pipers are making preparations for installing same. Holly equipment not received yet.</td>
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<tr>
<td></td>
<td>The size mixing and size storage tanks are completely erected and the pumps will be all set on both of them to-night, Feb. 20th. Both of the clay tanks are concreted, the agitators, drives, and pump all set, and will be ready to turn over to-morrow, Feb. 21st. Steel supports for the alum tank erected. Electrical equipment and Trimby Consistency Regulator which was in way of new structural steel was moved Sunday, Feb. 19th. Equipment moved into basement to-day, Feb. 20th. Mr. F. C. Bowler started on vacation Wednesday, Feb. 15th. Mr. Allen of Braman Dow Co. called Wednesday, Feb. 15th. Mr. H. E. McAdam of the Ontario Paper Co. visited Friday and Saturday, Feb. 17th and 18th.</td>
</tr>
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Dict. RVW
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<tr>
<td></td>
<td>For the first twelve days of February, Ripogenus reported 0.48&quot; of precipitation and Millinocket recorded 1.41 inches.</td>
</tr>
<tr>
<td>Rossers &amp; three Grinders</td>
<td>Grinders all installed.</td>
</tr>
<tr>
<td>Add'l. Grds. Job 1263</td>
<td>The new steel uptake conveyor from the pond slip to the barking drums was put into operation Saturday night, Feb. 11th. Started up very satisfactorily.</td>
</tr>
<tr>
<td>Paint Shop</td>
<td>Nothing accomplished this week as crew has been concentrating on Wood Room.</td>
</tr>
<tr>
<td>Job 1262</td>
<td>Horsburgh &amp; Scott speed reduction drive received Saturday, Feb. 11, 1933.</td>
</tr>
<tr>
<td>Chip Conveyor Drive - Job 1269</td>
<td>Expect to get started on floor changes in Sulphite Screen Room to-morrow, Feb. 14th.</td>
</tr>
<tr>
<td>Holly Sulphite Loading System</td>
<td>The steel size storage tank will be all riveted in place by to-night, Feb. 13th.</td>
</tr>
<tr>
<td>Job 1270</td>
<td>One of the clay tanks are all concreted and the forms for the second one will be ready for concrete by to-night, Feb. 13th.</td>
</tr>
<tr>
<td>Alum, Clay &amp; Size Equipment</td>
<td>Wooden color tanks not built yet.</td>
</tr>
<tr>
<td>Job 2147</td>
<td>Structural steel for the support of the rotary lock received. Hope to get work started to-morrow, Feb. 14th.</td>
</tr>
<tr>
<td>Trimbeay Mixer Chgs. Job 2148</td>
<td></td>
</tr>
<tr>
<td>Holly Unloading System - Job 2150</td>
<td></td>
</tr>
</tbody>
</table>

Dict. RVW

DATE MAILED: February 13, 1933

SIGNED: Engineer
FOR WEEK BEGINNING 8 A.M. Jan. 30, 1933 FROM Engineering Department LETTER NO. 6

GREAT NORTHERN PAPER COMPANY
WEEKLY NEWS LETTER

SUBJECT

Water Storage
Rossers & 3
Add'l. Grds.
Job 1263
Paint Shop
Job 1262
Chip Conveyor
Drive - Job 1269
Alum, Clay & Size Equipment
Job 2147
Trimby Mixer
Chgs. - Job 2148
Broke Beater
Job 2149
Holly Unloading System - Job 2150

DETAIL

Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft.
Feb. 6th, 1932
" " " " " " " " " " " " " " " 18,861 " " " "
" " " " Total including Small Ponds - 18,861 " " " *
10 Yr. Avg. (Feb. 6th) Ripogenus and North Twin - 24,156 " " " *

February 6th, 1933: Ripogenus Elev. 936.82 Storage 21,345 Mil. Cu. Ft.
North Twin " 486.55 " 2,669 " " "
Total Ripogenus & North Twin 31,014 Mil. Cu. Ft.

For the month of January, Ripogenus reported 2.61 inches of precipitation and Millinocket has recorded 2.09 inches.

Grinders all installed.

Erecting and riveting structural steel for the uptake into the barking drums. The long curved spout from the top of the uptake has been erected also, and the concrete tank supplying wood to the rosers has been extended to the North to take care of the lower end of this curved spout.

Megquier & Jones report that they are shipping to-day, Feb. 6th, the steel for the apron conveyor at the discharge end of the barking drums.

Paint Shop

Every thing removed from the inside of the old Experimental Grinder Room with the exception of the 600 H.P. motor and that has been removed from its foundation and put on skids all ready to be hauled out.

Filling up old foundations with cinders preparatory to patching concrete floor.

Speed reducer from Horsburgh & Scott not yet received.

Rawson coupling received and shafting by the mill all ready for installation.

Chip Conveyor

Size mixing tank installed and concreted in place. Pump pit for this tank also concreted.

Excavation for the concrete clay tanks will be practically completed by tonight, Feb. 6th.

The steel tank for size storage is being erected on blocking.

Trimby Mixer

Wooden color tanks not built yet.

This job is completed and in operation.

Due to considerable extra work such as fillings for two jordans, setting up a third jordan under the wet end of No. 3 machine, interconnection of all broke chests, etc., this job will show an overrun of probably 10%.

Broke Beater

The Holly pneumatic equipment in the Wood Room at Millinocket has been dismantled preparatory to shipping to East Millinocket.

Dict. RWV

(Over)

DATE MAILED
Feb. 6, 1933

SIGNED
Engineer
Miscellaneous

- Messrs. Stafford and Start of Rice-Barton & Fales visited Millinocket, Monday and Tuesday, Jan. 30th and 31st respectively.
- Mr. Frank Partech of the J. O. Ross Engineering Corporation, visited Tuesday, Jan. 31st.
- Mr. Estes of Factory Insurance Association, visited Thursday, Feb. 2nd.
- Mr. Frank Pearson called Thursday, Feb. 2nd.
- Mr. Passmore of Walworth Co., visited Friday, Feb. 3rd.
<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft. January 30th, 1932 &quot; &quot; &quot; - 19,283 &quot; &quot; &quot; 19283 &quot; &quot; &quot; 19,283 &quot; &quot; &quot; 10 Yr. Avg. (Jan. 30th) Ripogenus and North Twin 25,005 &quot; &quot; &quot; 25005 &quot; &quot; &quot; 25005 &quot; &quot; &quot; 25005 Total Ripogenus and North Twin 32,424 Mil. Cu. Ft.</td>
</tr>
<tr>
<td></td>
<td>Jan. 30, 1933: Ripogenus Elev. 938.15 Storage 22,859 Mil. Cu. Ft. North Twin &quot; 486.50 &quot; 2.565 &quot; 25005 &quot; 25005 &quot; 25005 &quot; 25005</td>
</tr>
<tr>
<td></td>
<td>For the first 29 days of January, Ripogenus has reported 2.61 inches of precipitation and Millinocket has recorded 2.01 inches.</td>
</tr>
<tr>
<td>Rosser s &amp; 3 Add'l. Grds.</td>
<td>Grinders all installed.</td>
</tr>
<tr>
<td>Job 1263</td>
<td>Structural Steel for the uptake conveyor into the barking drums has been received and a good start made on the erection of same.</td>
</tr>
<tr>
<td></td>
<td>The concrete tank supplying wood to the rossers has been extended to the south.</td>
</tr>
<tr>
<td>Paint Shop</td>
<td>With the exception of the 600 H.P. motor, the old experimental grinder room equipment has been removed preparatory to remodeling room</td>
</tr>
<tr>
<td></td>
<td>for the paint shop.</td>
</tr>
<tr>
<td></td>
<td>Old fire doorway into Boiler House has been bricked up. Also doorway in South wall has been bricked up and an additional window put in its place.</td>
</tr>
<tr>
<td>Alum, Clay &amp; Size</td>
<td>Excavation for the size mixing tank completed, and the steel tank itself is all assembled and riveted.</td>
</tr>
<tr>
<td>Equipment Job 2147</td>
<td>The heater and fan is being removed and excavation for the clay mixing tanks is now well underway.</td>
</tr>
<tr>
<td>Trimbey Mixer Chgs. J-2148</td>
<td>Nothing further done on this job.</td>
</tr>
<tr>
<td>Broke Beater Job 2149</td>
<td>Broke beater, jordan and disintegrator system for No. 4 machine is now in operation.</td>
</tr>
<tr>
<td></td>
<td>No. 3 machine is shut down and the temporary work removed and equipment installed in its final location.</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>Mr. Harry Leathers of Babcock &amp; Wilcox Co., visited Friday, January 27th.</td>
</tr>
<tr>
<td></td>
<td>Messrs. Start and Stafford of Rice, Barton &amp; Fales Co., visiting to-day, January 30th.</td>
</tr>
</tbody>
</table>

Dist. RVW

DATE MAILED January 30, 1933

FORM 17
<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Storage</td>
<td>Maximum Capacity of Ripogenus and North Twin - 45,000 Mil. Cu. Ft. January 23, 1932 &quot; &quot; &quot; &quot; - 19,396 &quot; &quot; &quot; &quot; &quot; &quot; Total including Small Ponds - 19,396 &quot; &quot; &quot; &quot; 10 Yr. Avg. (Jan. 23rd) Ripogenus and North Twin - 25,975 &quot; &quot; &quot; &quot;</td>
</tr>
<tr>
<td></td>
<td>January 23rd, 1933: Ripogenus Elev. 939.44 Storage 24,369 Mil. Cu. Ft. North Twin &quot; 436.45 &quot; 9,531 &quot; &quot; Total Ripogenus &amp; North Twin 33,900 Mil. Cu. Ft. For the first 23 days of January, Ripogenus has reported 1.60 inches of precipitation and Millinocket has recorded 1.58 inches.</td>
</tr>
<tr>
<td>4-Ft. Grinders Job 1255</td>
<td>Steel for the store room under the unloading platform received.</td>
</tr>
<tr>
<td>Rollers &amp; 3 Add'l. Grds. Job 1263</td>
<td>The three additional 4-Ft. grinders entirely installed in the grinder room. In the wood room, three rollers are in operation and the fourth one received, but not installed. Structural steel and platework for the new uptake conveyor has been received, and hauled inside the room. Chain for the apron conveyor from the discharge of the drums has been received. Now building forms for the extension to the south of the concrete tank which supplies the rollers with 4-Ft. wood.</td>
</tr>
<tr>
<td>Alum, Clay &amp; Size Equipment Job 2147</td>
<td>Started in this morning, January 23rd, to complete the excavation for the size mixing tank. Excavation for the clay tanks about one-half completed. Can not be finished until heater and fan is moved. Electricians and pipers performing necessary preliminary work.</td>
</tr>
<tr>
<td>Trimbey Mixer Chgs. Job 2148</td>
<td>This job completed with the exception of building two color tanks and installing in mixer room.</td>
</tr>
<tr>
<td>Broke Beaters Job 2149</td>
<td>The broke beater, jordan, and disintegrator system for No. 4 paper machine is already to be placed in commission.</td>
</tr>
<tr>
<td>Miscellaneous</td>
<td>Messrs Whitcomb, McKay, Lane, Smith, Hilton and Pearson arrived Tuesday night, January 17th, to attend the Annual Meeting of the Stockholders at 10:30 A.M. Wednesday, January 18th. They left Thursday morning, January 19th.</td>
</tr>
</tbody>
</table>

Dict. RVW
GREAT NORTHERN PAPER COMPANY  
WEEKLY NEWS LETTER  
FOR WEEK BEGINNING 8 A.M.  

<table>
<thead>
<tr>
<th>SUBJECT</th>
<th>DETAIL</th>
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</table>
   January 16th, 1932  
   " " " " Total including Small Ponds - 19,746 " " "  
   10 Yr. Avg. (Jan. 16th) Ripogenus and North Twin - 26,949 " " "  
   North Twin " 486.55 " 9,600 " " "  
   Ripogenus and North Twin " 35,279 Mil. Cu. Ft. |

   For the first fifteen days of January, Ripogenus has reported 0.67 of an inch of precipitation and Millinocket has recorded 0.75 of an inch.  

   Men's locker and wash room now all plastered. Cleaning up around job.  

   No. 4 grinder on No. 4 line all erected and ready for the stone, lathe, etc. Pipers installing necessary pipe, valves, hose, etc.  

   Stone now installed in No. 4 grinder on No. 5 line.  

   In the Wood Room, three rossers are installed and in operation and the fourth one has been received. The old block tank has been demolished and a new concrete floor poured where it formerly stood. Demolished and removed old refuse conveyor in basement. Megquier & Jones report that they expect to ship conveyor steel to-day, Jan. 16th.  

   Nothing further done the past week, as all hands are concentrating on job 2149.  

   Nothing done on this job during the past week.  

   No. 3 broke beater in operation. No. 4 broke beater, jordan, and pump all ready for operation as soon as piping from the jordan and disintegrator is completed.  

   Now installing jordan and pump for No. 3 machine.  

   Mr. Stephen B. Stafford of Rice, Barton & Fales called Tuesday, January 10th.  

   Mr. J. E. Waterhouse of Montague Machine Co. visited Tuesday and Wednesday, Jan. 10th and 11th respectively.  

   Messrs Prouty and Weldon visited Spruce Wood operation at Great Brook Friday, Jan. 13th.  

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Dated: RWW  

DATE MAILED:  
January 16, 1933  

FORM 17
GREAT NORTHERN PAPER COMPANY
WEEKLY NEWS LETTER

FOR WEEK BEGINNING 8 A.M.  Jan. 2nd, 1933 FROM Engineering Department LETTER NO. 2

SUBJECT | DETAIL
--- | ---
Water Storage | Maximum Capacity of Ripogenus and North Twin = 45,000 Mil. Cu. Ft.
 | January 9th, 1932 | 21,692
 | " " | 21,692
 | 10 Yr. Avg. (Jan. 9th) Ripogenus and North Twin = 27,978
 | North Twin " 487.20 " 10,048 " "
 | Ripogenus and North Twin " 36,506 Mil. Cu. Ft.

4 Ft. Grinders Job 1255

Machine Room Extension Job 1260

Rossers and 3 Additional Grinders Job 1263

Alum, Clay & Size Equipment Job 2147

Trimbey Mixer Changes Job 2148

Broke Beaters Job 2149

Miscellaneous

The balance of the West wall has been faced up with concrete where the old block tank was removed. The final construction opening in the West wall has been bricked up and fitted with two new window frames all ready to receive the new window sash.

Mill masons have started to plaster the hy-rib walls of the men's locker and wash room to-day, Jan. 9th.

Concrete floor between new West wall and the old machine room floor is now all completed.

Fire doors all completed and hung up in place.

Job now completed.

No. 4 grinder on No. 4 line grouted in place and the millwrights now installing the cylinders, etc. to make the erection complete.

The third rosser has been set up in the wood room, but not put into operation at this writing.

Breaking out concrete floor where the old block tank was demolished.

The two steel tanks for the size and two wooden tanks for the alum are received. All of the pumps, and most of the pipe, have also been received.

Excavation for the size mixing tank is practically completed, and excavation for the clay tanks started.

Fan removed from color room and motor generator sets relocated.

Two new color tanks not made yet.

No. 3 broke beater in operation. No. 4 broke beater all assembled, grouted, the concrete bottom poured, and the drive now being installed.

Floor around beater, and roof of stock tank to be poured to-morrow, January 10th.

Both Fairbanks-Morse Co.'s pumps received.

New disintegrator installed and in operation.

Jordans not yet installed.

Everything moved out of the local office of the H. J. Deutschbein Co., and it is now being demolished.

Mr. William Messinger visited Tuesday, January 3rd.

Dict. RVW

DATE MAILED January 9, 1933 SIGNED Engineer