IRVING

SAWMILL & WOODLANDS DIVISIONS

Grand Lake Timber Flooding 2018/2019 Impact and Mitigation

FLOODING AT GLT

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WHAT WE DO AT GLT:

- Random (10’-16’) & Stud (6’-9’) Length Mill
- 300 Million FBM Produced Annually
- 2 Major Expansions:
  - 2014 Modernization at the Sawmill
  - 2019 Capacity Increase & Value Added at the Planer
- Over 260 Employees on Site

FLOODING AT GLT

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From: “New Brunswick Underwater: The 2018 Saint John River Flood”, by Lisa Hrabluk



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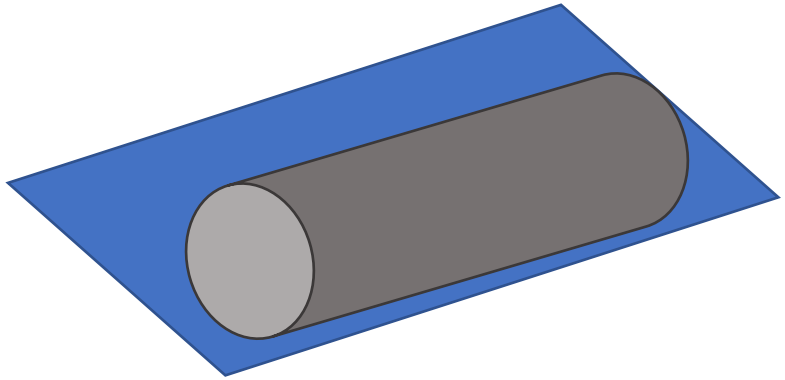




FLOOD PREPARATION

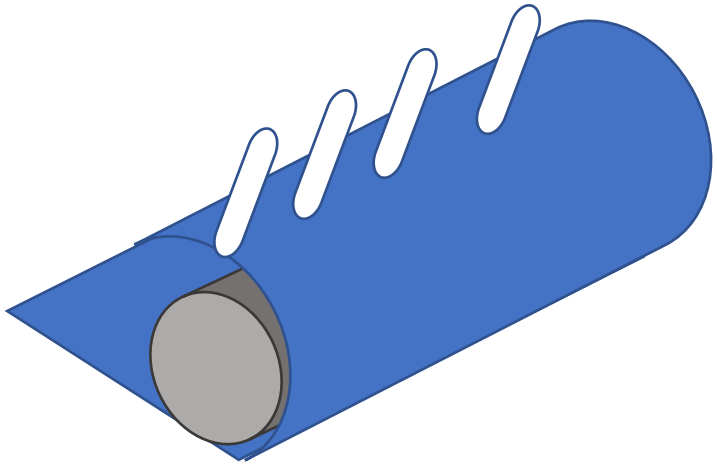
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STEP 1



- Lay tarp on the ground
- Pile Dirt Over 1/3 of the Tarp closest to the area you are protecting

STEP 2

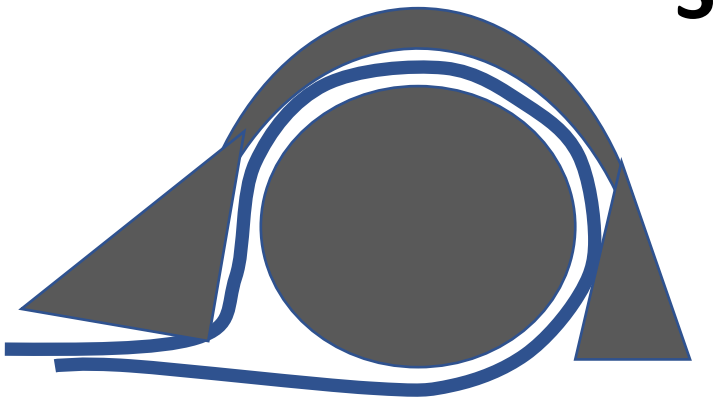


- Roll loose part of tarp over the sand
- Lay Sand Bags on the tarp edge to anchor the tarp

FLOOD PREPARATION

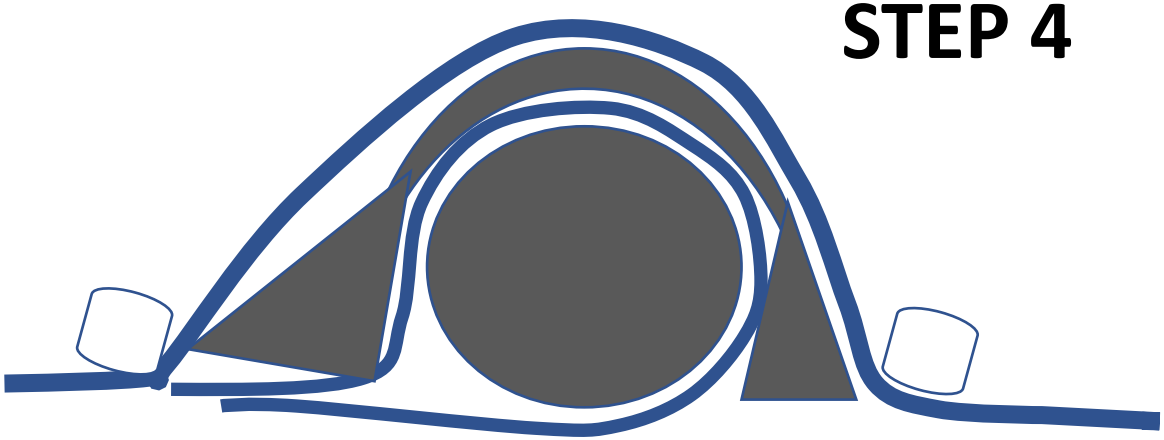
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STEP 3



- Add A layer of sand over the original inside tarp

STEP 4



- Lay tarp over the previous layer of sand. Add sandbags to hold it down.
- Anchor final layer of tarp: tie a length of rope to 2 sandbags and toss over

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FLOODING IMPACT:

- Lost Production:
  - 2018 11 Shifts
  - 2019 5 Shifts
- Lost Lumber Due to Contamination:
  - 2018 3 Million FBM
  - 2019 1 Million FBM
- Rough Lumber Moved Off Site
- Various Damage to Ashphalt Across Site

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LESSONS LEARNED

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- Start Early: Get supplies in advance (sandbags, pumps)
- Assess where berm protection is needed and build ahead of time. Easier to build when area is free of standing water.
- Build Sandbag Walls/Berms higher than you expect you'll need. High winds will cause waves to tear apart low berms.
- Have extra gas jugs and back up pumps.
- Follow the Flood Level projections online.
- Have the right clothing: Chest Waders, Water-Proof gloves, etc.