



Operation & Maintenance Plan Pond Sealing Geomembrane Membrane (Code 521)

Landowner/Operator:

Date:

NRCS Service Center:

Conservation District:

Practice Location:

Tract/Field ID:

(Lat/Long or UTM Coord, or Sec/TS/R)

Expected Lifespan

The minimum expected lifespan of this practice is at least 20 years.

A properly operated and maintained **Geomembrane or Geosynthetic Clay Liner** is an asset to your property. The purpose of this practice is to minimize seepage losses from a waste storage facility or pond. The estimated life span of this practice is 20 years. The life of the practice can be assured and usually extended by developing and carrying out a good operation and maintenance program.

This practice will require you to perform periodic operation and maintenance to maintain satisfactory performance. The following are some requirements to help you develop a good operation and maintenance program.

Operation and Maintenance

1. If applicable, maintain the protective soil covering over the geomembrane liner to the designed depth.
2. To prevent damage to the geomembrane liner, limit equipment access.
3. Prevent livestock access to the liner.
4. Install fencing and gates around the waste storage facility or pond treated with the geomembrane liner to prevent unauthorized access by humans or livestock. Inspect fence frequently. Repair fence as needed.
5. Inspect waste storage facility or pond for settlement or cracks in the earthfill that could ultimately damage the liner. Repair as needed.
6. Inspect waste storage facility or pond frequently for borrowing or other types of rodents that could ultimately damage the liner. Trap and or remove rodents. Repair and reseed rodent holes and other damage caused by rodents, wildlife or livestock.
7. Remove any debris that could damage the geomembrane liner.
8. Inspect for damage in the earthfill, spillways, outlets, or other appurtenances caused by vandalism, vehicles or livestock. Repair as needed.
9. Do not directly discharge the agitator or unloading pump onto the geomembrane liner or the liner cover.
10. Inspect the monitoring well after each time the waste storage facility is emptied. Check for unusual color, smell, etc. If a leak is detected, make provisions to pump the "brown" water back into the waste storage facility until the leak in the liner is repaired.

Operation, Maintenance and Inspection Costs

1. It is estimated that the annual time to routinely inspect and make minor repairs to your Geomembrane Liner will be:
 - a. Inspection = 1 hours/month
 - b. Minor Repairs = 1 hours/month
 - c. Major repairs to damage caused by major storm event will require extra time and materials.
2. Most minor repairs can be made by the operator using basic hand tools. However, major repairs to damaged liner, vents, boots, etc. may require hiring a professional experienced in these repairs

and improvements.

Specific Requirements for Your Practice

1. _____
2. _____
3. _____
4. _____
5. _____

Specific Site Requirements