

Scenario Worksheet

Practice and Scenario Description:	
Information Type	Data
Region	Mid Atlantic
State	New Jersey
Discipline Group	Engineering General
Practice Code/Name	521D - Pond Sealing or Lining, Compacted Clay Treatment
Scenario ID	1
Scenario Name	Material haul < 1 mile

Scenario Description	<p>Construction of a compacted soil liner, treated with compacted clay, to reduce seepage from ponds or waste storage impoundment structures. Practice implementation includes compaction of the soil liner under proper moisture conditions to the designed liner thickness, and soil cover to protect the finished liner. Material haul < 1 mile.</p> <p>Associated practices: Pond (378), Waste Storage Facility (313), and other waste impoundments</p>
Before Practice Situation	In-place soils at site exhibit seepage rates in excess of acceptable limits. An adequate quantity of soil suitable for constructing a clay liner without amendments is available at an economical haul distance. Material haul < 1 mile.
After Practice Situation	Water conservation and environmental protection provided by limiting seepage losses from ponds or waste storage impoundments.
Scenario Feature Measure	Volume of Liner Material (including volume of soil cover, as needed)
Scenario Unit	Cubic Yard
Scenario Typical Size	2420 Typical pond liner 12" thick & 6" thick soil cover x 1 acre in area

Cost Summary:		
Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$27,682.79	\$11.44
Labor	\$661.52	\$0.27
Mobilization	\$2,401.08	\$0.99
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$30,745.39	\$12.70

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Practice and Scenario Description:	
Information Type	Data
Region	Mid Atlantic
State	New Jersey
Discipline Group	Engineering General
Practice Code/Name	521D - Pond Sealing or Lining, Compacted Clay Treatment
Scenario ID	2
Scenario Name	Material haul > 1 mile

Scenario Description
 Construction of a compacted soil liner, treated with compacted clay, to reduce seepage from ponds or waste storage impoundment structures. Practice implementation includes compaction of the soil liner under proper moisture conditions to the designed liner thickness, and protection of the finished liner. Material is hauled 3.3 miles.
 Associated practices: Pond (378), Waste Storage Facility (313), and other waste impoundments

Before Practice Situation
 In-place soils at site exhibit seepage rates in excess of acceptable limits. An adequate quantity of soil suitable for constructing a clay liner without amendments is available at an economical haul distance.

After Practice Situation
 Water conservation and environmental protection provided by limiting seepage losses from ponds or waste storage impoundments.

Scenario Feature Measure	Volume of Liner Material (including volume of soil cover, as needed)
Scenario Unit	Cubic Yard
Scenario Typical Size	2420 Typical pond liner 12" thick & 6" thick soil cover x 1 acre in area

Cost Summary:		
Cost Category	Scenario Cost	Scenario Cost/Unit
Materials	\$0.00	\$0.00
Equipment/Installation	\$29,385.61	\$12.14
Labor	\$661.52	\$0.27
Mobilization	\$2,401.08	\$0.99
Acquisition of Technical Knowledge	\$0.00	\$0.00
Foregone Income	\$0.00	\$0.00
Total	\$32,448.21	\$13.41

