

# Waste Storage Facility

## PRACTICE INTRODUCTION

USDA, Natural Resources Conservation Service - practice code 313



### DEFINITION

A waste storage facility is a waste impoundment made by constructing an embankment, excavating a pit or dugout, or by fabricating a structure.

### PRACTICE INFORMATION

A waste storage facility is a component of a complete agricultural waste management system. The purpose of the practice is to provide temporary storage of waste material generated by production and/or processing of agricultural products. The waste material may be animal manure, wastewater, or contaminated runoff.

An operation and maintenance plan is developed to specify requirements for emptying the storage facility. The plan specifies timing, rates, and volume of

waste applications. For ponds, the plan also includes requirements for timely removal of waste material to accommodate subsequent storms.

Design criteria for this practice includes:

- Site location
- Design storage volume
- Storage period
- Inlet structures
- Safety features
- Pond criteria
- Emptying facilities
- Fabricated structure criteria

Additional information including detailed design criteria and specifications is in the local NRCS Field Office Technical Guide.

The following pages contain the conservation effects expected to occur when this practice is applied. These effects are subjective and somewhat dependent on variables such as climate, terrain, soil, etc. Users are cautioned that these effects are estimates that may or may not apply to a specific site.

## CONSERVATION PRACTICE PHYSICAL EFFECT WORKSHEET

NOTE: recorded in Microsoft word 6.0 - use tabs to change cells/fields

STATE	ANY	FIELD OFFICE	ANY	DATE	12/5/96
<b>PRACTICE:</b> 313 Waste Storage Facility			NOTES: The effects of applying the waste material to the land are shown in Waste Utilization (code 633)		
<b>RESOURCE: SOIL</b>			<b>Help Message: Click on form field for choice lists. Tab key to move around. "N/A" is the default.</b>		
<b>RESOURCE CONCERN: EROSION</b>					
<b>RESOURCE INDICATORS</b>			<b>PHYSICAL EFFECTS</b>		
SHEET AND RILL			N/A		
WIND			N/A		
EPHEMERAL GULLY			N/A		
CLASSIC GULLY			N/A		
STREAMBANK			N/A		
IRRIGATION INDUCED			N/A		
SOIL MASS MOVEMENT			N/A		
ROADBANK/CONSTRUCTION			N/A		
OTHER					
<b>RESOURCE CONCERN: SOIL CONDITION</b>					
SOIL TILTH			N/A		
SOIL COMPACTION			N/A		
SOIL CONTAMINATION					
• SALTS			N/A		
• ORGANICS			moderate decrease in organic contaminates		
• FERTILIZERS			moderate reduction in contaminates from fertilizer		
• PESTICIDES			N/A		
• OTHER					
DEPOSITION/DAMAGE					
• ONSITE			N/A		
• OFFSITE			N/A		
DEPOSITION/SAFETY					
• ONSITE			N/A		
• OFFSITE			N/A		
OTHER					
<b>RESOURCE: WATER</b>					
<b>RESOURCE CONCERN: WATER QUANTITY</b>					
SEEPS			slight increase in seepage hazard		
RUNOFF/FLOODING			slight decrease in runoff/flooding		
EXCESS SUBSURFACE WATER			slight reduction in excess subsurface water		
INADEQUATE OUTLETS			insignificant		
WATER MGT. IRRIGATION					
• SURFACE			insignificant		
• SPRINKLER			insignificant		
WATER MGT. NON-IRRIGATED			slight improvement in moisture use		
RESTRICTED FLOW CAPACITY (H2O convey.)					
• ONSITE			insignificant		
• OFFSITE			insignificant		
RESTRICTED STORAGE			slight reduction in sedimentation of H2O storage		
OTHER					

<b>RESOURCE: WATER</b>	
<b>RESOURCE CONCERN: WATER QUALITY</b>	
<b>RESOURCE</b>	<b>PHYSICAL EFFECTS</b>
<b>GROUNDWATER CONTAMINANTS</b>	
• PESTICIDES	slight reduction GWater contam./pesticides
• NUTRIENTS AND ORGANICS	slight poten. decrease/GWater contam./nutr,organ.
• SALINITY	slight poten.decrease/GWater contam./salinity
• HEAVY METALS	slight poten. decrease/GWater contam./heavy metal
• PATHOGENS	moderate poten. decrease/GWater contam./pathegens
• OTHER	
<b>SURFACE WATER CONTAMINANTS</b>	
• PESTICIDES	moderate reduction in SWater contam./pesticides
• NUTRIENTS AND ORGANICS	sign. reduction in SWater contam./nutri.,organics
• SUSPENDED SEDIMENTS	moderate reduction in SWater contam./susp. sedi.
• LOW DESOLVED OXYGEN	moderate reduction in SWater contam./low oxygen
• SALINITY	slight reduction in SWater contam./salinity
• HEAVY METALS	slight reduction in SWater contam./heavy metals
• WATER TEMPERATURE	insignificant
• PATHOGENS	moderate decrease in SWater contam./pathegens
<b>AQUATIC HABITAT SUITABILITY</b>	significant improvement in Aqua. Hab. Suit.
<b>OTHER</b>	
<b>RESOURCE: AIR</b>	
<b>RESOURCE CONCERN: AIR QUALITY</b>	
<b>AIRBORNE SEDIMENT AND SMOKE PARTICLES</b>	
• ONSITE SAFETY	insignificant
• OFFSITE SAFETY	insignificant
• ONSITE STRUCT. PROBLEMS	insignificant
• OFFSITE STRUCT. PROBLEMS	insignificant
• ONSITE HEALTH	slight decrease in onsite health/dust and smoke
• OFFSITE HEALTH	insignificant
<b>AIRBORNE SEDIMENT CAUSING CONVEYANCE PROBLEMS</b>	insignificant
<b>AIRBORNE CHEMICAL DRIFT</b>	insignificant
<b>AIRBORNE ODORS</b>	slight increase in airborn odors
<b>FUNGI, MOLDS, AND POLLEN</b>	N/A
<b>OTHER</b>	
<b>RESOURCE CONCERN: AIR CONDITION</b>	
<b>AIR TEMPERATURE</b>	N/A
<b>AIR MOVEMENT (windbreak effect)</b>	insignificant
<b>HUMIDITY</b>	N/A
<b>OTHER</b>	



<b>RESOURCE: HUMAN</b>	
<b>RESOURCE CONCERN: SOCIAL CONSIDERATIONS</b>	
<b>RESOURCE INDICATORS</b>	<b>PHYSICAL EFFECTS</b>
PUBLIC HEALTH AND SAFETY	mod. improvement in public health & safety
PRIVATE/PUBLIC VALUES	mod. improvement in private/public values
CLIENT CHARACTERISTICS	N/A
RISK TOLERANCE	N/A
TENURE	N/A
OTHER	
<b>RESOURCE CONCERN: CULTURAL CONSIDERATIONS</b>	
ABSENCE/PRESENCE OF CULTURAL RESOURCES	situational regarding cultural resources
SIGNIFICANCE OF CULTURAL RESOURCES	situational regarding cultural resources
MITIGATION OF NEGATIVE CULTURAL RES. IMPACTS	situational regarding cultural resources
OTHER	