

# This site assessment does NOT constitute a formal soil or geologic investigation or a pond design, and should not be used for construction. The information on this form represents a preliminary site assessment to evaluate the feasibility of a potential pond repair/retrofit, and assist in determining the priority for engaging engineering services for a more thorough site investigation and design. **This form should be completed by a Division Engineer.**

## **COOPERATOR INFORMATION**

First Name	Last name		
Street Address		7	City
County of Pond Site	Tract - Field	]	Pond Site Coordinates (decimal degrees):
Primary Purpose of Pond:	Irrigation Livestoc	k Watering	Other
SITE CHARACTERISTICS			
Type of Pond: Excavated	Embankme	ent	Combination
Watershed Drainage Area (ac)			
Calculate	Natershed Drainage Area using GIS or https://stre	eamstats.usgs.gov/	'ss/
Pond Surface Area (ac)	Maximum Water Depth (ft)	Pond Volur	
Embankment Height* (ft)	Embankment Length (ft)	*Excavated/Du	Pond Surface Area X Max. Water Depth X Reduction Factor* g pond - Reduction Factor = 0.7 /dam pond - Reduction Factor = 0.4
*Measured from highest point on embankem to lowest point of downstream toe.	lent		
Volume of Excavated Material (c	u yds) Method for Filling Pon	<b>d</b> (indicate appro	ximate % contribution from each source)
	Watershed	Well	Groundwater Recharge
	Pump from Stream	Other (plea	ase explain):
	_		

### AgWRAP WATER BALANCE

What percent of demand will be met by this pond? AgWRAP Water Balance Tool -> Summary Sheet -> (Runoff, AF / Demand Total AF)\*100

# SOIL SUITABILITIES AND LIMITATIONS

List the	predominant soil(s)	present in and a	round the pond in	poundment area*:
LISE CITE	predominant 30n(3)	present in ana a	nound the pond in	ipoundinent area .

Symbol       Map Unit Name       Rating       Rating	IO
Are there any geologic or soil features that may require special design or construction such as rocky soils, shallow soils, shallow bedrock, deep sands, or other local pond failures? If	_
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Is there an adequate borrow area with in 1/2 mile of the site? YES NO	NA
PERMITTING & HAZARD CLASSIFICATION	
What is the estimated acreage of wetlands that will be permanently inundated by the impoundment area or covered by the embankment, spillway and spoil? (ac)	
How many linear feet of stream will be permanently inundated by pond water and/or filled by the embankment, spillway and spoil?	
Length of Stream INUNDATED (ft) Length of Stream FILLED (ft)	
Elevation difference from hazard	
	Bridge Dimensions
Most recent annual average daily traffic count	
https://ncdot.maps.arcgis.com/apps/webappviewer Predicted Hazard Classfication	]

## **TECHNICAL RECOMMENDATION**

Are the physical characteristics of the site generally suitable for a or excavated pond, including an emergency spillway that can add purpose indicated above and satisfy the practice standard require please indicate the concerns below.	ress the YES	NO
<ul> <li>Soils have limitations for pond reservoir area</li> <li>Soils have limitations for use as embankment fill</li> <li>Topography of the site is not favorbale for a pond</li> <li>Watershed drainage area is not sufficient to maintain full pool in pond (Generally; if the ratio of WS Drainage Area to Pond Surface Area is less than 20:1)</li> </ul>	<ul> <li>The Water Balance Tool results indicate th than 50% of the planned water use demanded be met by this pond</li> <li>Other:</li> </ul>	
Will the noted special design and construction considerations sign increase project costs and potentially impact project implementa please provide an explanation below.		NA NA

Please provide any additional information or observations regarding the suitability of this pond site.

#### **TECHNICAL REPRESENTATIVE**

Name

#### JOB APPROVAL AUTHORITY

Name



Agency	

Date

Agency



