Dugout Maintenance Schedule

Year: _____ **Dugout No.: ___** **Legal Land Description: _____**

Season	Date	Water Level	Comments (runoff, water quality, treatment, and maintenance)
Spring			
Summer			
Fall			
Winter			

Summary of comments for the year and proposed improvements/changes:

_____

_____

_____

_____

Operation and Maintenance Schedule

Conventional Water Treatment System

Conventional Water Treatment System Operation & Maintenance Log				*N.B. Chlorine always tested at kitchen sink tap*	
Date	**Coagulation**	**Sand Filter**	**Carbon Filter**	**Chlorinator**	**Distiller**

Operation and Maintenance Schedule

Biological Water Treatment System

Biological Water Treatment System Operation & Maintenance Log					
Date	**Slow Sand Filter**	**Biological Carbon Filter**	**Storage Tank**	**Ultraviolet Light**	**Reverse Osmosis**

Dugout Construction Estimate Worksheet

This worksheet lists the items that a producer should discuss with a dugout construction contractor. A clear understanding between both parties is crucial so there are no misunderstandings or false expectations. Dugouts are far more than a deep wet hole in the ground. They are an important and significant investment for all farms. Dugout owners should take the time to ensure they understand what they are purchasing. A well-planned and constructed dugout will be well worth the investment.

Dugout Owner: _____ Dugout Contractor: _____

Address: _____ Address: _____

Dugout Location: Qtr _____ Sec _____ Twnshp _____ Range _____ Meridian _____

Proposed Starting Date: _____ Proposed Completion Date: _____

Proposed Dugout Use: Household _____ Livestock _____ Irrigation _____ Recreational (i.e., fish) _____ Other _____

Check Location of Underground Utilities: _____

Pre-construction testing: Test holes or test pits to identify potential problems including sand or gravel (i.e. seepage), high water tables, or shallow bedrock. No. of test holes or pits _____ Depth of testing _____

Design Considerations for Dugout: Depth _____ Width _____ Length _____ Volume _____ Side slope _____ End slope _____

Runoff or Flood Control: _____

Seepage Control or High Water Table Conditions: _____

Types of Construction Equipment: Trackhoe _____ Dozer _____ Scraper _____ Dragline _____ Buggy _____ Other _____

Equipment Transportation Costs: . . . . . $ _____

Dugout Construction Costs:

(a) pre-construction testing	$ _____/hour	x	_____ hours	= $ _____
(b) stripping top soil	$ _____/hour	x	_____ hours	= $ _____
(c) excavation costs	$ _____/yd^3	x	_____ yd^3	= $ _____
OR	$ _____/hour	x	_____ hours	= $ _____
(d) seepage control	$ _____/hour	x	_____ hours	= $ _____
(e) spread excavated material	$ _____/hour	x	_____ hours	= $ _____
(f) dike and gated culvert inlet (ie., flood control - optional)	$ _____/hour	x	_____ hours	= $ _____
(g) trenching water and air lines and install wet well	$ _____/hour	x	_____ hours	= $ _____
(h) topsoil replacement	$ _____/hour	x	_____ hours	= $ _____
(i) topsoil preparation and seed to grass				= $ _____

Transportation and Construction Costs $ _____

Tax $ _____

Payment Schedule: _____ Total Cost $ _____