

Report of NORTH DAKOTA STATE WATER COMMISSION State Office Building BISMARCK, NORTH DAKOTA 58501

JENSEN DAM AND RECREATION COMPLEX

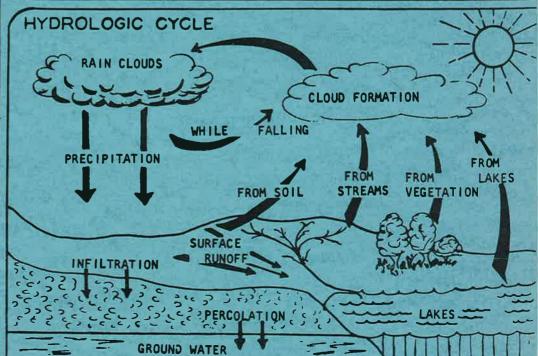
**GRAND FORKS COUNTY** 

SWC PROJECT #1502 SORA PROJECT #18-25

Prepared in cooperation with

Grand Forks County Water Management District State Outdoor Recreation Agency

May 15, 1969



# NORTH DAKOTA STATE WATER COMMISSION

## PROJECT REPORT

NAME: Jensen Dam and Recreation Complex, Cass County PROJECT: SWC #1502 - SORA #18-25 SPONSOR: Grand Forks Water Management District DATE: May 15, 1969

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# **North Dakota State Water Commission**

# State Office Building

(701) 224-2750

# **Bismarck, North Dakota 58501**

May 15, 1969

Mr. John Greenslit, State Liaison Officer State Outdoor Recreation Agency State Office Building - 900 East Boulevard Bismarck, North Dakota 58501

#### Re: Jensen Dam and Recreation Complex -SWC Project No. 1502

Dear Mr. Greenslit:

Enclosed are seven (7) copies of a development proposal for the Jensen Dam and Recreation Complex in Grand Forks County. The proposal was prepared by the State Water Commission in cooperation with the Grand Forks County Water Management District, the project sponsors.

Please submit the proposal to the Bureau of Outdoor Recreation for a grant from the Land and Water Conservation Fund. We appreciate the cooperation of the State Outdoor Recreation Agency and others who assisted in the preparation of the report.

Sincerely yours,

Millo W Howen

Milo W. Hoisveen Engineer-Secretary

MWH:ME:sl

encls.

cc: Grand Forks County Water Management District Commissioner Dushinske



Harold Hanson New England Russell Dushinske Devils Lake

BUY NORTH DAKOTA PRODUCTS

Henry J. Steinberger Donnybrook James R. Jungroth Jamestown

Arne Dahl, Ex-Officio Member Commissioner of Agriculture Milo W. Hoisveen, Secretary Chief Engineer and State Engineer

	ENT OF THE INTERIOR	. LEA	VE BLANK FO	OR BOR USE ONLY
BUREAU OF OUTDOOR RECREATION		Date Received		Project Number
PROJECT PR				
	the second s	Project Officer		
acauiring lands and wat	omission of individual projects for ers or interests in lands and waters tion purposes. If concurrent Develop- , check here X			
	SECTIO	DN 1		
1. State or Territory	2. Name and address of agency respon			
10 March 10	Grand Forks County Water	Managemen	t District	North Delete E8201
North Dakota	c/o Mr. Art Thoraldson,	Chairman, 1	Grand Fork	s, North Dakota 5020
3. Project Title	Recreation Complex, Grand	Forks Coun	ty. SORA P	roject #18-25
4. Brief description of pr		TOTRO COULT	-11	The second second
The lensen	Dam project is to be loca	ted on the	English C	oulee immediately
north of Grand	Forks. The project includ	ies acquiri	ng os.os a	icres of land
through the Bur	eau of Outdoor Recreation	program:	CONSTRUCTI	ng a channel uam
creating a 31 a	cre reservoir with a capac	city of 210	acre-teet	and a maximum
depth of 215 f	eet installing recreation	on Taciliti	es for suc	Il decivities as
boating fishin	a, swimming, picnicking, p	playing out	door games	s and camping;
and providing a	in underground power line.	The proje	CT IS desi	igned to meet
needs for water	-based outdoor recreation	facilities	in Region	I VII as stipulated
in the State Ou	tdoor Recreation and State	e Water Kes	ources pla	ins. General area
development and	I snagging and clearing the	e reservoir	area is i	neruded in the
plans to enhance	e the area's natural beaut	cy.		
5. Duration of project 5/15/69 12/31	6. Federal assistance requested	d		7. Recommended priority
		25	Name and Addre	ess to appear on check
cubility for direction (	and Title of individual having day-to-day			
Mr. Art Thorald	lson, Chairman unty Water Management Dist	Mi	lo W. Hois	sveen, State Fiscal Offic e Building - 900 Boulevar
Grand Forks Cou	orth Dakota 58201	Ri	smarck No	orth Dakota 58501
the second s	I will the Design Peopo	cal the State h	ereby accepts t	he Terms and Conditions set forth
in the BOR Grants-In	-Ald Manual, which will be a part of the	i toject ingreen		
11 CERTIFICATION: A	is the official designated to represent	We the street by	Finance its sh	are of the costs of this project. acriminate against any person on
the State and act 10	r the State for purposes of the Land ation Fund Act, I recommend that	d - benin c	f race color	or national origin in the use of
assistance be made a	available from the Fund, when montes	any propert	y or facility ac	councily with the terms and intent
are available, in acco	ordance with the recommended ariority. nce has been given or promised under	C Trialo 377	of the Civil R	Tohts ACL OI 1904, F. L. OU.
any other Federal p	rogram or activity with regard to the	(1064) and	of the remilation	ons promulgated pursuant to such the Interior and contained in
proposed project. T	The State or public agency to be re- roposed project has the ability and	43 CFR 17		
John	Jichmant	Jo	ohn Greens	lit
(Sie	Jielen D. F.			(Name)
U				
May 1	5 <b>, 1969</b> Date)		tate Liais	on Officer (Title)
(	Date)			(attre)
12. For State use				
Distribution:				
SORA (7)	USTY LMD			
Grand Forks Co	UTLY WITD			

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May 15, 1969

SWC (10)

Commissioner Dushinske

Sargent County Teiler, Milnor

SECTION 11

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1. Nature and Extent of Use - A. For entire area in which acquisitions are to be made:

Farmlands

B. For area to be acquired:

Farmlands

_											
2. BOR Classification of area III  3. Check one X. New Site Addition to existing				4. Location County Grand ForksTown Grand Forks Town population 35,000 Miles from Town							
_	r . 1	a ta ba ca	awised	6 0	over, acres in						
5.	lotal acre	es to be ac	quireu	0, 0		X	B. Rock	C	Cutover	D. S	wamp
	83	.63			E. Grass		F. Des	ert			Contraction of the second s
				1					9 Roadfr	ont, feet on	
	A Fiet C	3.63 B. D.	Hilly Mountaino	us	8. Waterfront, fee B. Lake	t on	A. Ocean _ C. Stream _		A. Di B. Gi	ravel	C. Paved
					10. PARCELS	STO	BE ACQUI	RED			and the second
	ARCEL	ACRES	ESTIM. VAL		NUMBER OF BUILDINGS	E	STIMATED VALUE		HOD OF UISITION	APPROX. DATE OF ACQUISITION	TOTAL VALUE
		-	11100	50				Fee	Simple	4-1-70	11,422,50
_		15.23	11,422	50					Simple	4-1-70	16,500.00
	2	22,00	16,500			-			Simple		30,000,00
_	3	40.00	30,000						Simple		3,200.00
	4	6.40	3,200	0.00					- mp		
	F	OR CONCU	RRENT A	CQUISI ECT SU	TION AND BMISSIONS			TOTA	L ESTIMA	TED VALUE \$	
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_		al estimated					assistance requested 30,511,25				
				TOTAL		0	Source of ren	nainder	of funds		
-	Total amou	int of Feder	ral assista	nce requ	uested		Grand Forks County Water Management Distri				
		ainder of fu					Grand	FUIK	scourt	y marcer rior	
				er Ma	nagement						
	Grand Forks County Water Management District State Water Commission										
SECTION 111 - ATTACHMENTS "No other Federal funds have been requested for this project."											
٨	tech, by r		the she	fallow	na supplemental d	осил	ents necessa	ry to p	process thi	s Acquisition	Project Proposal:
Α-	-660-1 Pr an se	oject Justij d would hel rved. B. I	<i>lication. A</i> lp meet pri indicate oth	t. Desc ority ne her orga	eription of how the eds identified in f nizations consulted	prop the p d du	osed project i plan. Indicate ring formulati	s in ac how on of t	the natura this propos	l beauty of the al. C. Plans f	area will be pre- for Operations and
A٠	-660-2 M		irts. A. S	imple p	lot plan or map sho or streets, highway	wing s, w	the total area aterlines, sew	to be vers, et	acquired a c. to be lo	nd its relationsh cated on or near	the involved area.

(Key to show location within State, County, or city.) B. Description of any improvements on lands to be acquired. C. Description of all legal rights to be held by applicant and any other person or organization.

A-660-3 Agreements. A. Agreements or arrangements made with other organizations for participating in the project, or in later operation and maintenance of the completed project.

The items shown below need not be submitted with the project proposal. However, during the course of execution of an approved project, the applicant should be prepared to submit them to the Bureau for review, as follows:

A-660-4 Appraisal reports and other documentation of cost.

A-660-5 Satisfactory evidence of title (such as an opinion by the State Attorney General) for each parcel.

A-660-6 Five-year history of conveyances for each parcel listed in project proposal (name of parties involved, dates, interest conveyed and consideration).

VERNON C. BOTSFORD

EDWIN N. RICE

# Botsford

Mortgage Loans - Investments - Farms - Farm Management - Insurance

P. O. Box 88

TEL. 775-6851

205 RED RIVER NATIONAL BANK BLDG. GRAND FORKS. NORTH DAKOTA 58201

March 27, 1969

Mr. Art Thoraldson, Chairman Grand Forks County Water Management District 611 Campbell Drive Grand Forks, North Dakota 58201

> RE: Jensen Dem, SWC, Project # 1502 Grand Forks County, N. Dak. Supplement to Appraisal Made December 12, 1968

Dear Mr. Thoraldson:

At your request, the writer has made an appraisal of the following described property for the purpose of estimating it's current market Valmes

Lot Four (4) Section Twenty-eight (28) ----- 22.00 Acres SE NW of Section Twenty-eight (28), all in Township 152, Range 50 - - 40.00 Acres Part of Lot Two (2) NW of English Coulee in Sec 28-152-50 - - - - - 6.40 Acres

The appraisal report, of which this letter is a part, in based on a personal inspection of the property for two reasons, Market Value a's to Agriculture purposes and also for Market Value as to Industrial Development, and an analysis of the many factors belived to influence it's value. It describes the property appraised and sets forth many of the factors considered in arriving at the value estimates.

Based on this information contained herein and on file in the office ot the appraiser, it is his opinion that the Market Value of the real estate as of this date is:

(1). Agriculture Purposes 77.23 acres @ \$400.00 - - - - - - - - - - - - - - - \$ 30,892.00 320.00 

(2). Industrial Development Purpose

The writer appreciates the opportunity to serve you, and hope the the following information will be of considerable help to you.

Yours very truly,

Edwin N. Rice, Realtor and Appraiser

# AFFIDAVIT

) 99

STATE OF NORTH DAKOTA County of Grand Forks

Edwin N. Rice being first duly sworn on his oath does testify: That he is of legal age, resident of Grand Forks, North Dakota for a period of Sixty-one (61) years and is engaged in the Farm Real Estate, Farm Management, Farm Mortgage Loan, Farm Property Appraisal and Real Property Investment Business in the States of North Dakota and Minnesota. Has had considerable experience in Farm Property Valuations in both States. That he has made a careful investigation of Farm Land Values and more particularly to the Market Value of the Farm Lands Described below in the County of Grand Forks, State of North Dakota; and based on this investigation, it is the true belief of the affiant that the Market Value of Said Real Estate on December 12, 1968 is as follows:

Lot Three (3) Section Twenty-eight (28), Lot Four (4) Section Twenty-eight (28), SEL NWL of Section Twenty-eight (28), all in Township 152, Range 50-40.00 acres Total Acres - - - - - - - - - - - - 77.23

Estimated Market Value for Agriculture purposes (Buildings included) 77.23 acres © \$400.00 - - - - - - - - - - \$ 30,892.00

Estimated Market Value for Industrial Development Purposes (Buildings included) 77.23 acres © \$750.00 - - - - - - - - - \$ 57,822.50

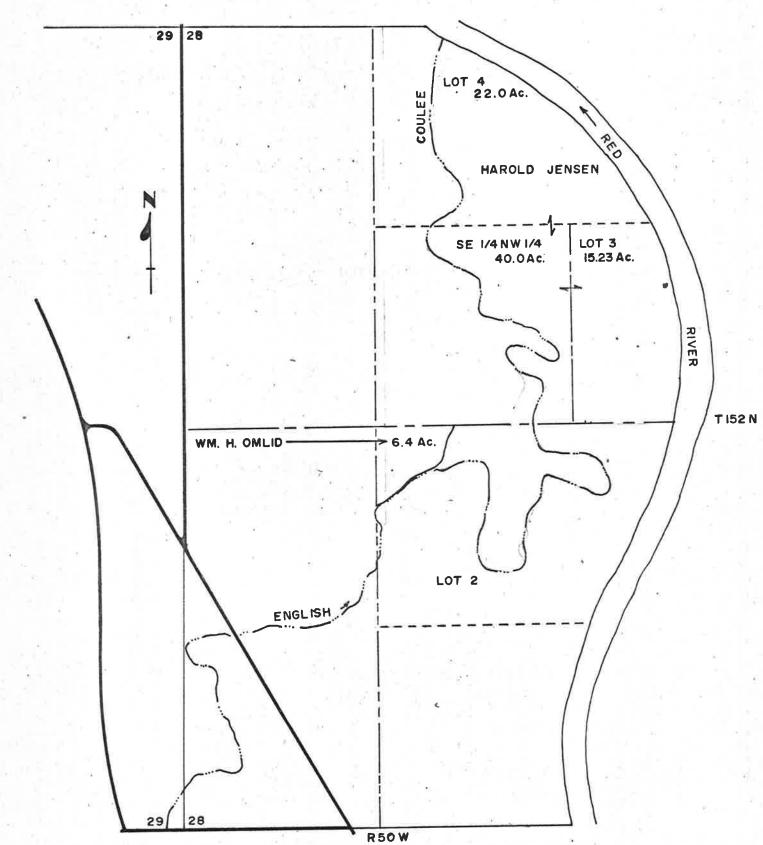
Part of Lot Two (2) Section Twenty-eight (28), Township 152, Range 50 (Approximately 6.40 acres North of English Coulee) Estimated Market Value for Industrial Purpose only. 6.40 acres @ \$500.00 - - - - - - - - - - \$3

3.200.00

Subscribed and sworn to and before me this 13th. day of December, 1968.

Notary Public, Grand Forks County, North Dekota

NAREY 7. ECE Nouny Pulsie, Ground Porte Correcty , S. Dek. My Gamariashan Expines Manch 12, 1971 JENSEN DAM PROJ. 1502 OWNERSHIP MAP



150 W

		ENT OF THE INTERIOR	LE	VE BLANK FO	R BOR USE ONLY
	BUREAU OF	OUTDOOR RECREATION	Date Received	the same state of the same sta	Project Number
	PROJECT PR	OPOSAL - DEVELOPMENT	1. S.		
			Project Officer		
develop la for outdo	ands and water	sion of individual projects which will s to facilitate their use by the public If concurrent Acquisition is being X			
		SECTI	ON 1		
1. State o	or Territory	2. Name and address of agency respo		t internet	
North	Dakota	Grand Forks County Water c/o Mr. Art Thoraldson,			, North Dakota 58201
3. Project					
		Recreation Complex, Grand	Forks Count	y, SORA Pr	oject #18-25
Th north throug creati depth boatin and pu needs in the develo plans	of Grand gh the Bur ing a 31 a of 21.5 f ng, fishin roviding a for water e State Ou opment and to enhanc	Dam project is to be locat Forks. The project includ eau of Outdoor Recreation cre reservoir with a capac eet; installing recreation g, swimming, picnicking, p n underground power line. -based outdoor recreation tdoor Recreation and State snagging and clearing the e the area's natural beaut	es acquirin program; o ity of 210 n facilitie laying outo The projec facilities Water Reso reservoir y.	ng 83.63 ac constructin acre-feet es for such loor games ct is desig in Region purces plan	res of land g a channel dam and a maximum activities as and camping; ned to meet VII as stipulated s. General area cluded in the
5. Buratic 571.57 from	769 <sup>f project</sup> to 12/3	1/71 6. Federal assistance requested \$148,45			7. Recommended priority A
sibility	Organization, a	nd Title of individual having day-to-day	respon- 9, N	ame and Address	to appear on check
Grand	rt Thorald	son, Chairman nty Water Manag <mark>ement Distr</mark>	ict Sta	ate Office	een, State Fiscal Offic Building - 900 Boulevar th Dakota 58501
Grand Grand 10. TERMS	rt Thorald Forks Cou Forks, No s And Condit	son, Chairman nty Water Manag <mark>ement Distr</mark>	sal, the State he	ate Office marck, Nor reby accepts the	Building - 900 Boulevar th Dakota 58501 Terms and Conditions set forth
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## SECTION 11 - TABULAR SUMMARY OF PROJECT ELEMENTS AND COSTS

Identify the phase or element of the Development Project suggested by the line items. Indicate additional breakdown of work elements necessary and desirable to allocate work assignments and costs.

	DATE OF			TOTAL ESTIMATED CO	ST \$	296,900.00
	BEGIN- NING	COMPLE- TION	ESTIMA TED COST	Amount of Federal development assistance requested	19 m	148,450,00
EVELOP SITE PLANS	-			Source of remainder of funds Grand Forks County W	ater Manag	gement District
8.				State Water Commissio	on	
DEVELOP CONSTRUC- TION PLANS AND SPECIFICATIONS	e <			FOR CONCURRENT ACQUIS		EVELOPMENT
A.				Total estimated acquisition valu	ie \$	61,022.50
В.		Lu		Total estimated development cos	sts \$	296,900,00
PREPARE SITE				2	TOTAL \$	357,922.50
A.			1.1	Total amount of Federal assista requested	nce \$	178,961,25
В.				Source of remainder of funds	1.1.1	1,0,001.000
UNDERTAKE CON-				Grand Forks County W	ater Mana	gement Distric
A. Dam and	5/15/69	12/31/71	155,100	State Water Commissi	on	the second second
B. Recreation Fac.	5/15/69	12/31/71	141,800.	00 SIZE IN ACRES OF ENTIRE AREA OR PARK	TO BE I	CRES OF AREA DEVELOPED HIS PROPOSAL
				the second s		
Α.				Land Water	Land	Water
8.			1	83.63	52.63	31.0

SECTION 111-ATTACHMENTS. "No other Federal funds have been requested for this project."

Attach, by reference number, the following supplemental documents necessary to process this Development Project Proposal:

- D=660-1 Project Plan and Justification. A. Description of how the proposed project is in accord with the State outdoor recreation plan and would help meet priority needs identified in the plan. B. Summary of area, its nature and relation of development to the area. Indicate how the natural beauty of area will be enchanced.
   C. Descriptive outline of proposed accomplishments with funds requested. Indicate contemplated other uses of the area. D. List of names of organizations which will undertake the development and how this will be performed. E. Economic feasibility data, or other types of data to indicate extent and kind of use to be made of the completed area or facility. F. Plans for operations and maintenance.
- D=660-2 Maps and Charts. A. Simple site plans or maps showing total area, in addition to area to be developed. Annotate to show plans for, or existing streets, highways, waterlines, sewers, etc. to be located on or near the area. (Key to allow location within State, County, or city.) Indicate uses now made of the area by applicant or other agencies or individuals. B. Description of all legal rights to the area to be held by applicant and any other person or organization.
- D-660-3 Agreements. A. Agreements or arrangements made with other organizations for participating in project, including operation and maintenance of completed facility.

The terms shown below need not be submitted with the project proposal. However, during the course of execution of an approved project, the applicant should be prepared to submit them to the Bureau for review, as follows:

0-660-4 Plans. A. Site plans, specifications and cost estimates. B. Construction plans, specifications and cost estimates. These must be submitted for review and approval before construction may proceed on a structure to cost in excess of \$100,000.

D-660-5 Contracts. A. Copies of pertinent contracts, as specifically required by the Bureau of Outdoor Recreation.

## NORTH DAKOTA STATE WATER COMMISSION

Acquisition and Development Project Justification Report Jensen Dam and Recreation Complex, Grand Forks County SWC Project #1502 SORA Project #18-25

May 15, 1969

#### A-D:660-1. PROJECT PLAN AND JUSTIFICATION

## A. State Plan Accord

The Jensen Dam and Recreation Complex will provide outdoor recreation opportunities for boating, water skiing, fishing, picnicking, swimming and playing outdoor games and sports.

"Outdoor Recreation in North Dakota," the State Plan, (page 44, paragraphs 5, 7, 8 and 9) states: "Planning Region VII has generally adequate areas and facilities for playing outdoor games and sports, ice skating, outdoor cultural events and equestrian trails to meet needs of the residents as projected to 1980. There may be instances of local unmet needs.

"Acquisition and development programs should generally be directed towards providing additional areas and facilities for fishing, boating, water skiing, swimming beaches and pools, camping, hunting, bicycle trails, picnicking, walking and hiking trails, scenic drives, sledding, tobagganing, and snow skiing. Action by all levels of government and by the private sector must be expanded if the growing future needs of the people are to be met.

"Water resources of the region are limited. The terrain of the Red River Valley is relatively flat and there is limited potential for suitable dam sites. The rich farming land is expensive and may provide greater economic return from agricultural operations than it would from reservoir impoundments. Much of the demand for water oriented activities by residents of the region is now satisfied in the lake and resort areas close by in Minnesota.

Water oriented recreation developments in adjacent planning regions of North Dakota will play an ever increasing part in the future recreation needs for Planning Region VII, however, consideration should be given to development of feasible water projects within Planning Region VII."

The project is in accord with the state comprehensive outdoor recreation plan and will serve to meet priority needs identified in the plan. It is accorded Bureau of Outdoor Recreation priority designation "A".

the Sceneit

John Greenslit State Liaison Officer - Coordinator

## B. Summary of Area

The proposed project is to be located immediately north of Grand Forks in Grand Forks County, North Dakota. Economic Region VII is known for its deficiency of adequate quality water-related outdoor recreation facilities.

The project setting, which is English Coulee with its treelined banks, will make a very attractive area for water-related outdoor recreation purposes. General layout of the project features contemplates enhancement of the area's appearance and add to its natural beauty. There are no flooding or pollution problems at the proposed reservoir and recreation area.

# C. Outline of Project Features

OD A LECT

A \$155,100 dam is planned which will create a 31 acre reservoir with an 108 square mile drainage area, 210 acre-feet capacity and 21.5 feet maximum depth. A detailed cost estimate, design and hydrology report are included with this proposal. The water has been allocated, by permit of the State Engineer, to recreation.

About 83.63 acres of land are to be acquired in fee for the reservoir and public use recreation areas adjacent to the reservoir. The estimated land cost is \$61,022.50. Appraisal reports are included with the proposal. The 83.63 acre area is primarily for intensive use and will be owned by the Grand Forks County Water Management District, project sponsor.

Recreation facilities are to be installed by the Grand Forks County Water Management District for public use activities such as fishing, boating, swimming, picnicking, and playing outdoor games. No charges are anticipated at the project for use of the area for recreational purposes. A detailed cost estimate for the recreation facilities phase of the project is included with this proposal.

In summary, the project phases, their costs and allocations are as follows:

PARTICIPANTS	LAND	DAM	FACILITIES	TOTAL
Bureau of Outdoor Recreation	30,511.25	77,550.00	70,900.00	178,961.25
Grand Forks County WMD	30,511.25	38,775.00	70,900.00	140,186.25
State Water Commission		38,775.00		38,775.00
TOTALS	\$61,022.50	\$155,100.00	\$141,800.00	\$357,922.50

-3-

#### D. Organizations and Coordination

During the project formulation process numerous conferences were held among the participating agencies, landowners, and interested citizens. Coordination of each project phase will be continued among all interested entities as acquisition and development activities proceed.

Primary agencies and their responsibilities include:

- Project Sponsor Grand Forks County Water Management District
- 2. Grant Administration State Outdoor Recreation Agency
- Land Acquisition Grand Forks County Water Management
   District
- Dam Construction North Dakota State Water Commission with contract forces
- Recreation Facilities Grand Forks County Water Management District and State Water Commission
- Financing Bureau of Outdoor Recreation, Grand Forks
   County Water Management District and State Water Commission

## E. Economic Feasibility

The project will serve a 30 mile radius area with an estimated 80,000 population. Anticipated annual visitations are 40,000 with an assumed economic value of \$1.50 per visitation. Annual operation and maintenance costs are estimated at \$3,500 and depreciation (including land) at \$8,950 for total annual costs of \$12,450. Average annual net economic benefits are estimated at \$47,550.

Assuming the \$357,922.50 total costs allocated to outdoor recreation were invested and compounded at 4% for 40 years, the

estimated project life, we would have a product of \$1,718,393.31. With net annual benefits of \$47,550 over the project's 40 year life, we would receive \$1,902,000 in economic benefits indicating a benefit-cost ratio of 1.11 to 1.

A project economic feasibility report is included with this proposal (SORA Form 28).

F. Operation and Maintenance

The Grand Forks County Water Management District will operate and maintain the 83.63 acre project area with technical assistance from the North Dakota State Game and Fish Department and State Water Commission. The area will be open to the public at all times. Operation and maintenance funds are obtained from ad valorem taxes levied by the Grand Forks County Water Management District throughout the county which has a taxable valuation of \$46,362,248 (1967).

A-D:660-2. MAPS AND CHARTS

- A. Included with this project proposal are the following maps and supporting data:
  - 1. State map showing project #18-25 location
  - 2. Design and Hydrology Report
  - 3. Soils Investigation Report
  - 4. Water Permit #1624 and SWC Form 110 -"Permit for Construction of Dam"
  - 5. SWC Map #7101-1502-39 "Topography and Test Borings"

-5-

A-D:660-3. AGREEMENTS

- A. The following are included with this proposal:
  - 1. Grand Forks County Board of Commissioners' Approval
  - 2. Grand Forks County Water Management District Project Assurances and Civil Rights Act Assurances
  - Cost Participation Agreement among Grand Forks County Water Management District and State Water Commission

A-D:660-4. PLANS

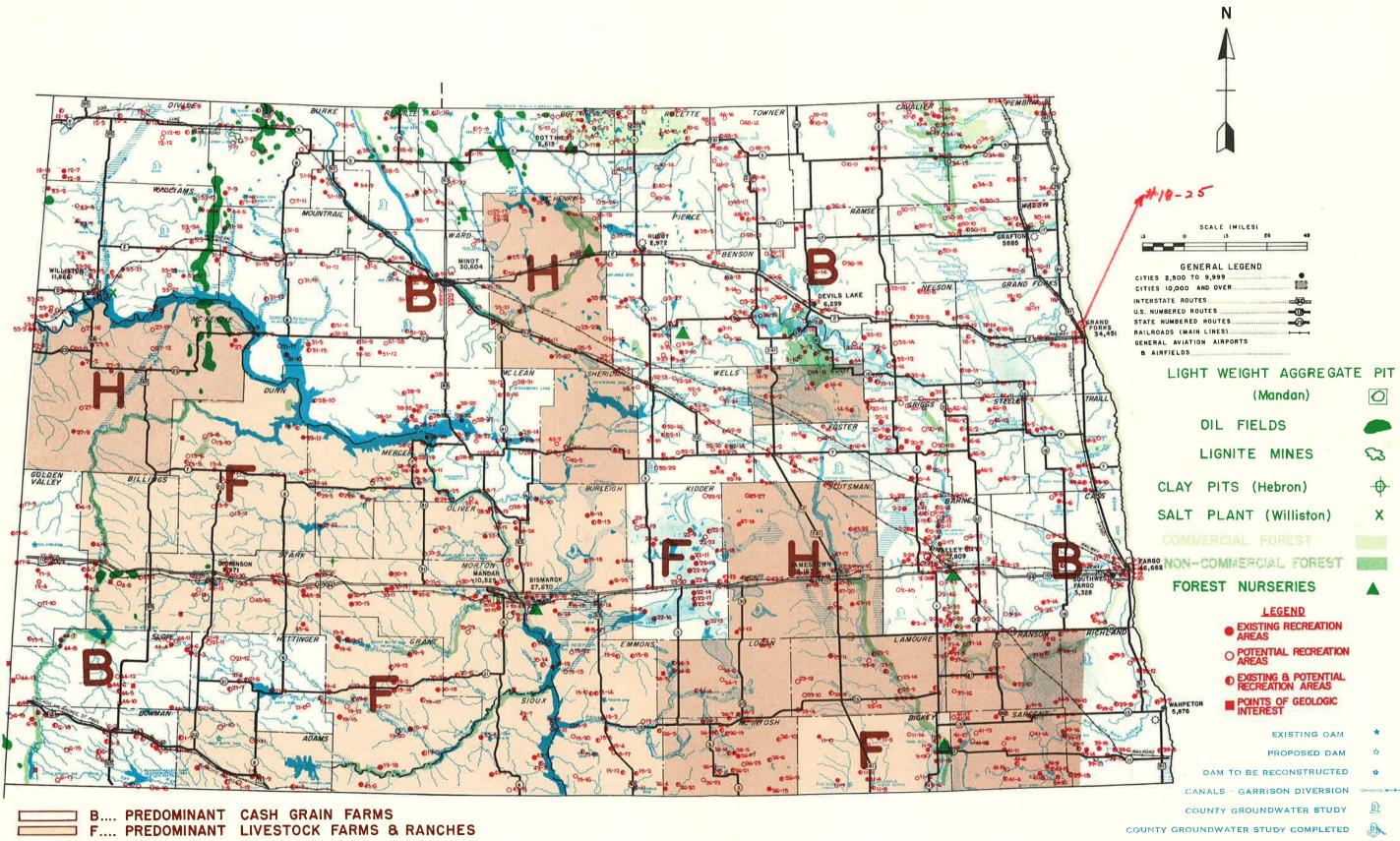
Α.	Construction plans for t	the project are included as follows:
	SWC Map #7150-1502-43	"Recreation Area and Facilities"
	SWC Map #7095-1502-40	"Sections, Elevations and Plan View
		Spillway Structure"
	SWC Map #6325-1502-32	"Lower Coulee Damsite and Lower Coulee
		Spillway Site"
	SWC Map #7096-1502-41	"Profile and Details"

Prepared by:

Matt Emerson

Matt Emerson, Assistant Secretary North Dakota State Water Commission

Distribution: SORA (7) Grand Forks County Water Management District Commissioner Dushinske SWC (10)



**EXAMPLE 1 CASH GRAIN FARMS F.... PREDOMINANT LIVESTOCK FARMS & RANCHES H.... GENERAL FARMS, NO PREDOMINANCE Data Source: U.S. Census of Agriculture 1959, Vol. I, Part 18, North Dakota** 

SHADED AREAS (BLUE) GROUNDWATER AQUIFIER

#### NORTH DAKOTA STATE WATER COMMISSION

#### OFFICE MEMO

 MEMO TO: Milo W. Hoisveen, Chief Engineer
 FROM: Delton D. Schulz, Office Engineer
 SUBJECT: Jensen Dam - SWC Project No. 1502 - Design, Hydrology and Dam Construction Cost Estimate Report
 DATE: November 15, 1968

# <u>HYDROLOGY</u>

Jensen Dam is proposed to be located in Section 28, Township 152 North, Range 50 West in Grand Forks County. This location is near the mouth of English Coulee which drains into the Red River. The drainage area above the dam is 108.45 square miles, which is more than adequate to sustain the reservoir water surface level. The length of English Coulee from its headwaters to the dam site is 46 miles. The total fall within this distance is 332 feet.

In view of the project's proximity to Grand Forks, structures were designed to provide for a 100-year flood frequency. A rainfall of 100-year frequency on the area would approximate 3.8 inches falling in a 5.16 hours period. The computed design inflow hydrograph has a peak of 3,093 cubic feet per second and a total volume of 2,285 acre-feet, which is equal to a runoff depth of 0.395 inches from the contributing drainage area of 108.45 square miles. Computations developed for maximum flows and a graphical presentation of the hydrograph are attached. Also attached is the reservoir area capacity curve. Though the structures were designed hydraulically to provide for flood flows in excess of 100-year frequency, it is anticipated that backwaters of the Red River will control the water surface elevation during extreme flows. The structures had been designed adequately so as not to induce flooding of adjacent lands.

The average annual water yield of the drainage basin approximates 60 acre-feet per square mile. The total drainage area of 108.45 square miles would therefore yield 6,507 acre-feet per year to the reservoir. Evaporation and seepage losses for this area approximate 2.5 feet. Total annual reservoir losses therefore approximate 77.5 acre-feet.

# DESIGN

The spillway structure consists of double drop sheet piling structures off of the English Coulee channel proper. The reason for the double drop was due to the instability of soils in this area where differences in elevations in excess of 20 feet to 25 feet cause soils to shift or move. The reason for selection of sheet piling is due again to the unstable soils which have a tendency to bounce or move. Such soil reactions have caused cracks, etc. to occur in reinforced concrete. It is hoped that the sheet piling will provide greater latitude for such movement and still remain structurally sound. The water surface control elevation will be provided by the first structure near English Coulee and is to be established at elevation 805.0. At this elevation, a channel reservoir will be created covering an area of 31 acres with a capacity of 210 acre-feet. The overall width of the drop structures is 176 feet each, and rock riprap is to be provided upstream and downstream from both structures to minimize erosion. The downstream structure has been set at an elevation equal to the bottom of the Red River channel to preclude scouring. An earthern plug with 30 foot top, and a core at the base, to eliminate seepage, is to be placed in the English Coulee proper near the mouth of the coulee. Side slopes of the earthen plug are proposed to be 4:1 upstream and downstream and are to be rock riprapped in their entirety both upstream and downstream. Rock riprap is necessary on the downstream side, in this case, due to anticipated backwaters of the Red River. The 30 foot top width is provided in view of the anticipated access road to the proposed recreation area. The crest of the embankment is to be established at elevation 814.0.

FOLLOWING ARE PHYSICAL FEATURES OF THE DAM:

A. Maximum Height of Dam Embankment - 30.5 Feet

B. Maximum Depth of Reservoir at Control Elevation 805.0 - 21.5 Feet

- 2 -

C. Reservoir Water Surface Area at Control Elevation 805.0 - 31 Acres

D. Reservoir Capacity at Control Elevation 805.0 - 202 Acre-Feet

E. Drainage Area Above the Dam - 108,45 Square Miles

# <u>COST ESTIMATE FOR DAM CONSTRUCTION</u>

Based on cost for construction of previous projects by the State Water Commission, it is estimated that costs for construction of the dam solely are as follows:

- 1. Stripping 2,000 CY @ 35 cents \$ 700.00 (Includes only earthfill area and roadway)
- 2. Excavation 16,000 CY @ 45 cents 7,200.00 (Includes all excavation in area of structure and the core trench for the earthen plug in the coulee proper. A portion of the excavation in the area of the structure will be used for construction of the dikes in the structures area, and the balance of excavated material is to be distributed in the general area of the structures of the disgression of the engineer in charge) (2,503 CY in dikes)
- 3. Earthfill, embankment and roadway 9,000 CY @ 45 cents 4,050.00

4.	Brace Pipe, Black -	4" - 14.98 lb./ft.	
	960 L.F. @\$4.00		3,840.00

5. 4" Standard Pipe Tee (Weld) - 22 @ \$15.00 330.00

- 6. Structural Steel Sheet Piling (L.B. Foster, Sec. No. 1306 or equal) 10,200 Ft.<sup>2</sup> @ \$6.00 61,200.00
- 7. American Standard Channel 6
   13 

   616 L.F. @ \$4.00
   2,464.00
- 8. Primer, Rust Inhibitive, Intermediate -22,400 Ft.<sup>2</sup> @ 4 cents 896.00
- 9. Paint, 594 Green, by Rust-Oleum (or equal) 24,864 Ft.<sup>2</sup> @ 4 cents 994.56
- 10. Rock Riprap 3,660 tons @ \$8.50 31,110.00
- 11. Gravel 1,966 tons @ \$5.00 9,830.00
- 12. Corrugated Metal Pipe 18 inch, 16 gage 54 L.F. @ \$10.00 540.00

13.	Metal End Sections - 18 inch, 16 gage 2 each @ \$25.00	\$ 50.00
14.	Extend 24" Corrugated Metal Pipe, 16 gage LUMP SUM	100.00
15.	Metal End Section, 24", 16 gage 2 each @ \$30.00	60,00
16.	Snagging and Clearing 🛥 2.4 miles @ \$2,500.00	6,000.00
	SUBTOTAL	\$129,364.56
	Contingencies	5,635.44
	Construction Inspection	6,000.00
	Contract Administration	14,100,00
	TOTAL	\$155,100.00

O Schul Delton D. Schulz Office Engineer

DDS:ka

<u>Dist.</u> MWH Al G DDS

Drainage Area - 108.45 square miles Length of Channel - 46 miles Total Fall, 332 Feet - (1117.0 - 785.0)

Volume: 2,285 Acre-Feet

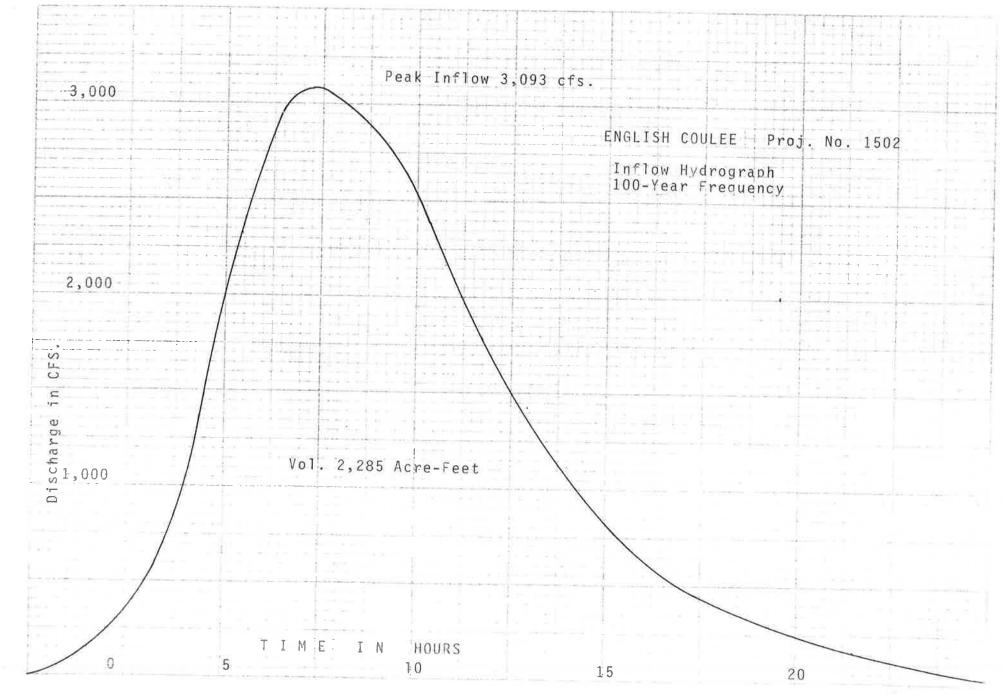
# ENGLISH COULEE - #1502

Time % T <sub>c</sub>	Hrs.	lst Per. D= .717	2nd Per. D= .717	3rd Per. D= .378	4th Per. D= .180	Total cfs
	Hrs. 0. 1.075 2.150 3.225 4.300 5.375 6.450 7.525 8.600 9.675 10.750 11.825 12.900					
65 70 75 80 85 90 95 100 105 110 115 120 124	13.975 15.050 16.125 17.200 18.275 19.350 20.425 21.500 22.575 23.650 24.725 25.800 (26.66)	267 184 138 123 104 81 53 21 1	388 286 199 143 128 108 86 59 28 28 2	279 216 161 113 79 68 59 48 34 18 3	173 139 109 82 58 40 33 29 24 18 10 2 0	1107 825 607 461 369 297 231 158 87 38 13 2 0 25,755

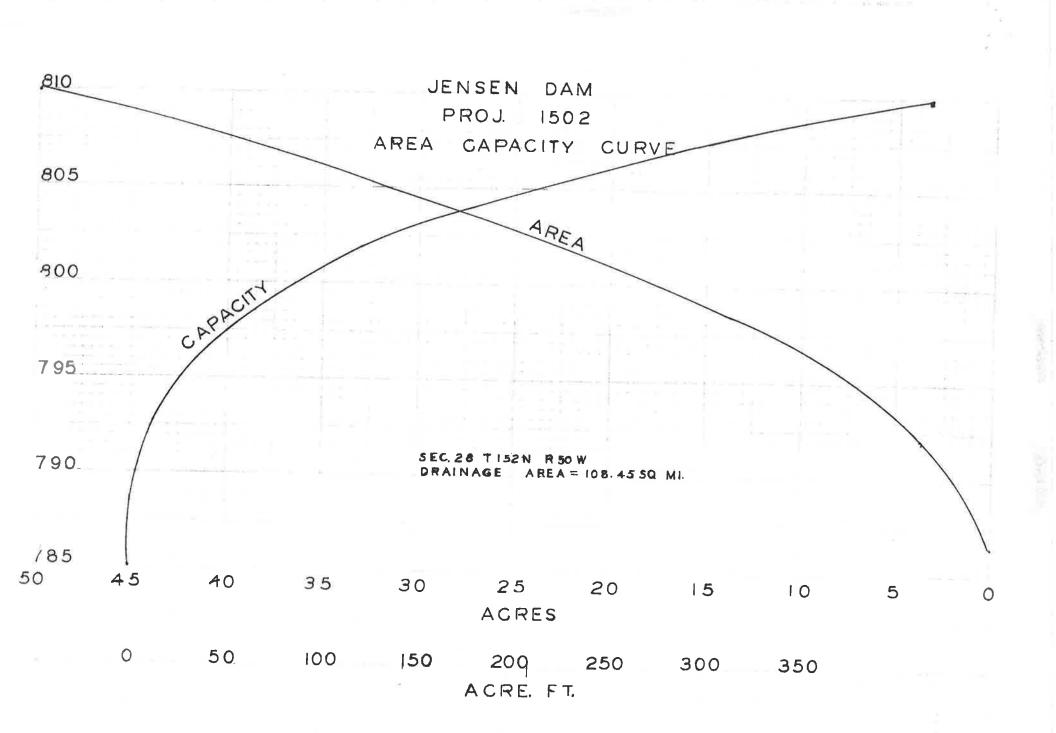
\* Maximum Discharge: 3093 cfs
Time Intervals: .05 x 21.5 = 1.075 Hours
25,755 x 1.075 = 27,687 Hr. Sec. Ft. = 2288 Acre-Feet
108.45 sq. mi. x 53.33 x 0.395 inches R.O. = 2285 Acre-Feet (check)

C MAPPINET CHARLS

CONSTRACTOR OF LEADER



DHG 8-9-68



# NORTH DAKOTA STATE WATER COMMISSION

# COST ESTIMATE

# Jensen Dam Recreation Area SWC Project No. 1502

# March 5, 1969

<u>ITEM</u>		NUMBER	ESTIMATED UNIT COST	ESTIMATED TOTAL COST
1.	Picnic Area #1	н	2	
	a. Table (Concrete)	20	200	4,000
	b. Shelter	2	2,500	5,000
	c. Community Shelter	- 1	4,500	4,500
	d. Fireplace	10	150	1,500
5 	e. Trash Receptacle	10	100	1,000
	f. Comfort Station (Double)	2	5,000	10,000
	g. Water Fountain	3	100	300
2.	Picnic Area #2	1.2.		
a .	a. Tables (Concrete)	20	200	4,000
	b. Shelter	2	2,500	5,000
	c. Community Shelter	1	4,500	4,500
199	d. Fireplace	10	150	1,500
6	e. Trash Receptacle	10	100	1,000
	f. Comfort Station (Double)	2	5,000	10,000
	g. Water Fountain	3	100	300
3.	Playground		, a	
. ai	a. Big Slide	1.1	800	800
9.3	b. Swing (6 unit fiberglass pony)	1	800	800
	c. Animal Spring Dome	8	100	800
	d. Dome Whirl (Fiberglass)	1	850	850
	e. Pony Whirl	1	500	500

<u>1 TEM</u>			NUMBER	ESTIMATED UNIT COST	ESTIMATED TOTAL COST
3.	Pla	yground (Continued)	4		
1 ki 2 - 1	f.	Turtle (Fiberglass)	1	350	350
8	g.	Jack and Jill Playhouse	1	950	950
	h.	Swing (3 unit)	1	350	350
	i.	Sandbox	. 2	50	100
4.	Bea	ch Area (Wading Only)			, X =
	a.	Sand Blanket #1	2000 tons	2	4,000
	b.	Sand Blanket #2	2000 tons	2	4,000
i site	с.	Dressing House (Double)	1	4,500	4,500
100	d.	Floatline	2	100	200
	e.	Landscaping	Lump	Sum	2,000
5.	Acc	ess Road and Parking Areas			1
	a.	Motor Scraper	200 hours	25	5,000
	b.	Motor Patrol	50 hours	15	750
	c.	Road Gravel	1200 tons	2	2,400
an a' s an	d.	Barriers	200	4	800
6.	Gen	eral Area Development		N	
29	а.	Fencing	3 miles	1,800	5,400
	ь.	Foot Path	5000 feet	1	5,000
	c.	Trees, Shrubs and Landscaping	· Lump	Sum	2,000
	d.	Signs	Lump	Sum	1,500
	e.	Seeding	30 acres	50	1,500
	f.	Lights	10	150	1,500
Shi Qe	g.	Well	2	1,500	3,000
840 d. (	h.	Plastic Pipe $(1\frac{1}{4}"$ in place)	2000 feet	* · · · <b>  1</b> *-	2,000
	1.1				

-2-

I TEM		NUMBER	ESTIMATED UNIT COST	ESTIMATED TOTAL COST
6.	General Area Development (Cont.	)		
	i. Pump (3/4 H.P. Electric wit 42 gallon tank)	h 2	500	1,000
	j. Septic Tank System (4,000 g tank complete in plac		3,000 ea. Lump Sum	6,000
7.	Ball Park		<i>1</i> .	
	a. Back Stop	1	750	750
8.	Trailer and Tent Parking Area			
	a. Motorized Scraper	30 hours	25	750
1 2 1	b. Motor Patrol	20 hours	15	300
	c. Road Gravel	500 tons	. 2	1,000
	d. Electric Hookup	Lump S	Sum	2,500
10 . 25a 25	e. Holding Tank Dump Station	Lump S	Sum	1,000
\$ 1.5		Subtotal	A.	\$116,950
аў. (		Contingencies	31	5,850
		Construction Inspec	tion	6,150
		Contract Administra	ation	12,850
		TOTAL	5	<u>\$141,800</u>

KLS:s1

Distribution:					
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# NORTH DAKOTA STATE OUTDOOR RECREATION AGENCY Project Economic Feasibility Report Benefit-Cost Ratio

PROJE	CT NAM	gJensen Dam and Recreation Complex		
LOCAI	ION-CO	UNTYGrand Forks	SORA # 18-25	
Ι.	BASIC	DATA		
	А.	Radius of Anticipated Use		
	В.	Population Within Use Area	80,000	-
	С.	Anticipated Annual Visitations	40,000	_
	D.	Investment (include land)	\$_357,922.50	-
	Ε.	Estimated Life of Facilities	40	years
II.	ANNUA	L COSTS		
	F.	Operation and Maintenance	\$3,500.00	-
	G.	Depreciation ( $D \stackrel{\circ}{\div} E$ )	\$8,950.00	_
	H.	Total Annual Costs (F + G)	\$12,450.00	_
III.	ANNUA	L BENEFITS		
	J.	Assumed Value Per Visitation	\$1.50	-
	К.	Estimated Annual Benefits ( $J \ x \ C$ )	\$60,000.00	
	L.	Average Net Benefits ( K – H )	\$ 47,550.00	
IV.	BENEF	TT-COST RATIO		
	М.	Factor for value of 1 compounded	8 .	
		at $40$ years $e_4$ % = (factor)	4.80102063	_
		(Standard factor for 30 years @ 4% = 3.24339751 )	20	
	N.	Product of Investment ( $D \ge M$ factor )	\$_1,718,393.31	
	Ρ.	Total Benefits ( $L x E$ )	\$_1,902,000.00	
	Q.	Benefit-Cost Ratio ( P ÷ N )	Xxxx 1.11:1	-

To support D-660-1E Economic Feasibility

SORA Form 28 500/10-4-66

st			SWC Proj. No.	02
SWC Acct.		ואיז דער היו זאור ה		
sa. Proj. Participant	AGREI			
	CONSTRUCTIO	ON OF WORKS		5
		after referred to as the Co	mmission, acting by	and through
(2) The Grand Forks C	o. Water Management/	strict , hereinafter referred to as	s theDistrict	
acting by and through	Art Thoraldson (Name)	,Chairman(Title)	j	1.
(3) The	4) 	, hereinafter referred to as	the	
noting by and through			;	
	(Name)	(Title)		. ,
(4) The		, hereinafter referred to as	s the	
ting by and through		,		
	(Name)	(Title)		
	I. PROJECT, LOCAT	TION AND PURPOSE		
WHEREAS, the parties to	this Agreement propose to a	construct the following:		
	Jensen Dam and R	ecreation Complex		16 A.
reinafter referred to as the P	,Grand_Forks	County, Nor	th Dakota, the purpo	41
		County, Nor	th Dakota, the purpo	41
to_provide_a_multi-us	,Grand Forks	County, Nor	th Dakota, the purpo	41
	,Grand Forks	County, Nor	th Dakota, the purpo	41
<u>to provide a multi-us</u>	,Grand_Forks	County, Nor	th Dakota, the purpo	41
<u>to provide a multi-us</u> NOW, THEREFORE, IT	,Grand_Forks	County, Nor	th Dakota, the purpo	blic.
<u>to provide a multi-us</u> NOW, THEREFORE, IT That the Project will be c	<u>, Grand Forks</u> <u>se water-based outdoor</u> IS AGREED: II. DRAWINGS AN onstructed in accordance wi	County, Nor recreation facility for D SPECIFICATIONS th drawings and specification	th Dakota, the purpo	blic.
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<u>to provide a multi-us</u> NOW, THEREFORE, IT That the Project will be c	, <u>Grand Forks</u> se water-based outdoor IS AGREED: II. DRAWINGS AN onstructed in accordance wi	County, Nor recreation facility for ID SPECIFICATIONS th drawings and specificati , approved byDi _, and	th Dakota, the purpo	blic.
<u>to provide a multi-us</u> NOW, THEREFORE, IT That the Project will be co <u>Commission</u> with drawings and specification	, <u>Grand Forks</u> se water-based outdoor IS AGREED: II. DRAWINGS AN onstructed in accordance wi	County, Nor recreation facility for D SPECIFICATIONS th drawings and specificati , approved byDi _, and hission maps, designat (Describe)	th Dakota, the purpo or the general pu ions of the strict ed by No. 1502 ar	blic.
to provide a multi-us NOW, THEREFORE, IT That the Project will be control of the control o	, Grand Forks se water-based outdoor IS AGREED: II. DRAWINGS AN onstructed in accordance wi ns,State Water Comm facility drawings No]	County, Nor recreation facility for ID SPECIFICATIONS th drawings and specificati , approved byDi _, and ission maps, designat (Describe) 376	th Dakota, the purpo or the general pu ions of the strict ed by No. 1502 ar are by this re	blic.
<u>to provide a multi-us</u> NOW, THEREFORE, IT That the Project will be co <u>Commission</u> with drawings and specification	, Grand Forks se water-based outdoor IS AGREED: II. DRAWINGS AN onstructed in accordance wi ns,State Water Comm facility drawings No]	County, Nor recreation facility for ID SPECIFICATIONS th drawings and specificati , approved byDi _, and ission maps, designat (Describe) 376	th Dakota, the purpo or the general pu ions of the strict ed by No. 1502 ar are by this re	blic.
	, Grand Forks	County, Nor recreation facility for D SPECIFICATIONS th drawings and specification, approved byDi _, andDi _, andDi 	th Dakota, the purpo or the general pu ions of the strict ed by No. 1502 ar are by this re- nto the body of this	blic. nd eference made a Agreemen
	, Grand Forks se water-based outdoor IS AGREED: II. DRAWINGS AN onstructed in accordance wi ns, State Water Comm facility drawings No. 1 e same force and effect as if III. COSTS ANI 5 the various Project elemen	County, Nor recreation facility for D SPECIFICATIONS th drawings and specificati , approved by Di _, and tission maps, designat (Describe) 376 they were incorporated in D ALLOCATIONS ts and their allocation to	th Dakota, the purpo or the general pu ions of the strict ed by No. 1502 ar are by this re- nto the body of this	blic. nd eference made a Agreemen

ж. - А

1. North Dakota State Water Commission	- \$0r%
2,	or%
3	%%
4	or%
5	or%
. Land and/or Easement Acquisition	Total Estimate \$_61,022.50
1. North Dakota State Water Commission	- \$%
2. District	\$_30,511.25or50%
3. Bureau of Outdoor Recreation	201
4	\$%
5	\$%
Construction of Main Works	Total Estimate \$155,100.00
1. North Dakota State Water Commission	- <u>\$ 38,775.00</u> or 25 %
2. District	\$ <u>38,775.00</u> or 25 %
3. <u>Bureau of Outdoor Recreation</u>	\$ 77,550.00 or 50 %
4	or%
5	or%
. Construction of Appurtenant Works	Total Estimate \$141,800.00
(Recreation Facilities) 1. North Dakota State Water Commission	- \$%
2. District	\$ 70,900.00 or 50 %
3. Bureau of Outdoor Recreation	\$ 70,900.00 or 50 %
4	%
5	%%
. Other Items	Total Estimate \$
1. North Dakota State Water Commission	- \$0r%
2	%%
3	or%
4	or%
5	or%
'. Total Project Costs and Allocations	\$ <u>357,922.50</u>
1. North Dakota State Water Commission	- \$ <u>38.775.00</u> or 10.83 %

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- 19 V - 2			\$		or <u>39_17</u>	_/0
3. <u>Bureau of O</u>	utdoor Recreatio	on	\$	178,961.25		_%
4	8	4			or	_%
			1	1. 1.1.1		1. 1. 1.
5 That all parties shall pi		ith east statement	s within 20		Droject's co	_% mpletion_an
tlements shall be made w	ithin 30 days of rec		nents.			
That title to all lands a					of the	a the second
and Forks County Wate	r Management Di	stricby the	Di	strict		
d recorded in the County						151
11 · · · · · · · · · · · · · · · · · ·	V OPF	RATION AND M	AINTENA	NCE		
That the					e and mainta	in the Proje
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accordance with rules and	regulations prescril	bed by the		mm1551.0n		· · · · · · · · · · · · · · · · · · ·
		<b>I. INDEMNIFICA</b>				2.
That the	District		<u> </u>	does hereb	y accept resp	onsibility fo
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	PROJECT ASSURANCES	(for use of SORA	office only)
	NORTH DAKOTA STATE OUTDOOR RECREATION AGENCY	SORA PROJECT NO.	
	STATE OFFICE BUILDING		
	BISMARCK, NORTH DAKOTA	DDTODTW	· · · · · · · · · · · · · · · · · · ·
198.98	58501	The second second second second second	
1.	APPLICANT Grand Forks County Water Managem c/o Art Thoraldson, Chairman	ent District AGENCY	
	Grand Forks, North	DakotaADDRESS	
_	PROJECT LOCATED IN Gran	d Forks 58201 COUNTY	
2.	PROJECT IDENTIFICATION: TITLE Jensen Dam a	nd Recreation Complex	
	LEGAL DESCRIPTION:	SEC. 28 TWP 152N	RGE 50W
	BRIEF PROJECT SUMMARY: Acquire 83.63 acres of 0 acre-feet reservoir with a 31 acre surf	ace area and 21.5 feet max	imum depth; and
In	stall facilities for fishing, swimming, b	oating, picnicking and pla	ying outdoor games
	TO BE STARTED ON THE DATE OF APPROVAL, TO BE COMPLETED	December 31,	19 _71
FOR	MAL AGREEMENT HEREBY CERTIFIES THAT:		
А.	No financial assistance has been given or promised under this proposed project.	r any other Federal program or acti	vity with regard to
в.	The Applicant responsible for the proposed project has the project.	the ability and the intention to fi	nance its share of
c.	The Applicant accepts the obligation to comply with the the time of the award and to the further terms and cond effect at the time of the award.	e applicable laws, rules and regulat litions of the Bureau of Outdoor Rec	ions in effect at reation Manual in
D.	Property acquired under this program will be placed in tained for such use in perpetuity or otherwise as provi approval of the North Dakota State Outdoor Recreation A made of such property.	ded and agreed to in the project ag	reement. Prior
E.	The Applicant has the intent and ability to finance the for so long as is required.	e operation and maintenance of the f	acility being developed
F.	No foreign uses of such property, other than those des advance by the North Dakota State Outdoor Recreation A Applicant shall, within one year of such foreign use, the cost of the project, less the amount of such cost	rency. In the event foreign use is m reimburse the North Dakota State Out	ade of such project the
G.	If for any reason it shall become necessary for any deposite funds in order to fulfill any obligations which maintenance of this project, the Applicant shall, with agency the amount of funds expended for such maintenance	the Applicant has agreed to perform in a one year period, reimburse the	in the construction and
н.	The Applicant understands that qualification of this p Agency does not in itself constitute an obligation or will necessarily be made available for the project.	roject proposal by the North Dakota award of requested funds and does no	State Outdoor Recreation of guarantee that funds
Ι.	The Applicant will supply development specifications at tion Agency as requested to do so by the Executive Off		a State Outdoor Recrea-
J.	The Applicant has read and understands and hereby agree Project Agreement to be entered into between the Burea Agency in the event this Project is approved by the Bu by this reference, made a part of this Proposal to the body of this Proposal.	u of Outdoor Recreation and the Stat reau of Outdoor Recreation and such	e Outdoor Recreation Project Agreement is,
		TTLEChairman	Mar 15, 1969
	(Authorized Representative)	me Secretary i	DATE May 15, 1969

(Authorized Representative)

TITLE

DATE

#### U.S. DEPARTMENT OF THE INTERIOR ASSURANCE OF COMPLIANCE (TITLE VI, CIVIL RIGHTS ACT OF 1964)

#### District

# Grand Forks County Water Management (hereinafter called "Applicant-Recipient")

(Name of Applicant-Recipient)

HEREBY AGREES THAT IT will comply with Title VI of the Civil Rights Act of 1964 (P.L. 88-352) and all requirements imposed by or pursuant to the Department of the Interior Regulation (43 CFR 17) issued pursuant to that title, to the end that, in accordance with Title VI of that Act and the Regulation, no person in the United States shall, on the ground of race, color, or national origin be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the Applicant-Recipient receives financial assistance from <u>Bureau of Outdoor Recreation</u> and

Bureau or Office

Hereby Gives Assurance That It will immediately take any measures to effectuate this agreement.

If any real property or structure thereon is provided or improved with the aid of Federal financial assistance extended to the Applicant-Recipient by <u>Bureau of Outdoor Recreation</u>, This assurance obligates the Bureau or Office

Applicant-Recipient, or in the case of any transfer of such property, any transferee for the period during which the real property or structure is used for a purpose involving the provision of similar services or benefits. If any personal property is so provided, this assurance obligates the Applicant-Recipient for the period during which it retains ownership or possession of the property. In all other cases, this assurance obligates the Applicant-Recipient for the period during which the Federal financial assistance is extended to it by\_\_\_\_\_ Bureau of Outdoor Recreation.

Bureau or Office

THIS ASSURANCE is given in consideration of and for the purpose of obtaining any and all Federal grants, loans, contracts, property discounts or other Federal financial assistance extended after the date hereof to the Applicant-Recipient by the bureau or office, including installment payments after such date on account of arrangements for Federal financial assistance which were approved before such date. The Applicant-Recipient recognizes and agrees that such Federal financial assistance will be extended in reliance on the representations and agreements made in this assurance, and that the United States shall reserve the right to seek judicial enforcement of this assurance. This assurance is binding on the Applicant-Recipient, its successors, transferees, and assignees, and the person or persons whose signature appear below are authorized to sign this assurance on behalf of the Applicant-Recipient.

May 15, 1969 DATED Grand Forks County Water Management District APPLICANT-RECIPIENT

Jensen Dam & Reservoir Complex

sident, Chairman of Board or Comparable

resident, Chairman of Board or Comparab authorized Official

APPLICANT-RECIPIENT'S MAILING ADDRESS

		(3)
	в.	If water is to be delivered from storage reservoir complete the following: and file NDSWC Form 110:
		Location of dam1/4 Sec. 28 Twp 152 Rge 50
		Height embankment above stream bed 30.5 Ft.
		Capacity of Reservoir
	C.	If water is to be obtained from well complete the following
	3	Proposed depth well
		Proposed size well or well casing
		Has pump test been performed, if so, by whom
		Computed capacity of well
4.	Pu	rposeRECREATIONAL
	A.	If purpose is irrigation: Type of irrigation system
		Estimate of time required for completion of system
5.	Ha	s the quality of water analysis been made?Class water CS
		te Sample taken

6. Description of land to be irrigated (show lot numbers where applicable):

		NE	¥ ·		NW ¼			SW ¼ SE ¼			SE ¼						
ge. N	E% 1	NW 14	SW 14	SE 14	NE ¼	NW 1/4	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW.14	SW 1/4	SE ¼	Tota
					4												
				N								4					1
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1	ge	ze. <u>NE ¼</u>	10.	se. NE ¼ NW ¼ SW ¼	10.	1e	7e.	76.	7e.	re	ze,	τρ.					

Located in <u>Grand Forks</u> Estimated quantity of water that will be returned to the approximate source from which diverted:

GRAND FORKS COUNTY WATER MANAGEMENT DISTRICT By pplicant's Signature) Chairman

**NOTE:** Above application is merely a declaration of intention to create a water right, approval does not create such right. Water right will be created only if and when water is beneficially used, pursuant to conditions and stipulations specified by the State Engineer.

"Buy North Dakota Products"

5. Will flows presently available to downstream riparian land owners be depleted?
6. Downstream landowners who might be deprived of use of water by construction of the dam are
7. Is the dam and impounded water on the owners land or does sponsoring entity have landowner's permission to construct D and Flood Land?YES (Copies of all easements must be filed with application.)
8. For an enlargement of an existing dam, answer the following: Why is enlargement necessary?
Year dam was constructed By what agency
Total yardage in existing dam
(Name or Number of attached data sheet) 10. This dam will be operated in conformance to all state water laws and rules and regulations of the North Dakota State Wat Commission.
11. Construction will begin on or before       December 31, 1971         and will be completed on or before       December 31, 1972
Date Submitted:
Hand Forth 94 Cake 58201
COUNTY OF Stand Jola )55
oth march 14
and this the day of britting 1967, before me a Notary Public personally appeared the foregoing application in the same person who executed the foregoing application is the same person who executed the foregoing applied to the same person who executed the foregoing application is the same person who executed the foregoing application is the same person who executed the foregoing application is the same person who executed the foregoing application is the same person who executed the same person who executed the same person who execut
tion for a permit to construct or enlarge a dam or reservoir and acknowledged to me that he executed the same.
Distribution: HENRY H. GALLOWAY Clenmy AL Dallower
SWC Pri. No. Notery Public, Grand Forks County, Nustary Public Addited 7022 County, N. 1 WMD Co. Reg. of Deeds My Commission Expires Feb. 20, 1970. My Commission Expires Feb. 20, 1970.
The filing of this application and its approval in no way relieves the landowner from any responsibility or llability for damage

from the construction, operation or failure of this structure. Concurrence by Water Management district not applicable where not established.

SWC Form No. 110 Rev. 2-68

"Buy North Dakota Products"

Thoselson Signed: C Chairman

Grand Forks County WMD

#### DISAPPROVAL

This is to certify that I have examined the foregoing application and hereby reject and disapprove the same for the following reasons:

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		1			
WITNESS my hand and	seal this		· · ·	, 19	
, , , , , , , , , , , , , , , , , , ,		Sig	Chief Engineer	State Water Commissio	
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NDSWC Form No. 110 (2M-2-68 C.C.R.)	Rev. 2-68	10 ig 2-		<u></u>	
Sec. Sec.		- 312		Car - Jean	
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