NOTICE

This scan only represents the application as filed. The information contained herein meets the requirements of K.A.R. 5-3-1 or K.A.R. 5-5-1, and has been found acceptable for filing in the office of the Chief Engineer. The application should not be considered to be a complete application as per K.A.R. 5-3-1b or K.A.R. 5-5-2a.

12/19/2023, 8:35 AM

Submit To: CHIEF ENGINEER **Division of Water Resources** Kansas Department of Agriculture 1320 Research Park Drive Manhattan, KS 66502-5000 http://agriculture.ks.gov/dwr

APPLICATION FOR PERMIT TO Water Resources Received **APPROPRIATE WATER FOR** KS Dept Of Agriculture State of Kansas **BENEFICIAL USE**



STATUTORY FILING FEE MUST ACCOMPANY THIS APPLICATION Please refer to the Fee Schedule attached to this application form.

	Name of Applicant: VINCE											
	Address: 2375 SPENCE AVE	B -										
	City: HOLLENBERG		State: KS Zip Code: 66946									
	Phone:	E	mail: <u>kathybruna1@gmail.com</u>									
2.	The source of water is:	surface water in UNNA	MED TRIB (strear	a)								
		groundwater in LITTLE	BLUE RIVER									
			(drainage l	basin)								
3.	The maximum annual quan	tity of water desired is 61.4	6	acre-feet gallons								
э.	to be diverted at a maximum			ural flows natural evaporation								
				al quantity of water desired to be								
	rediverted is 39.6	acre-feet	gallons, at a rate of 1000	gpm 🗌 c.f.s.								
		2 Convers 1 acre-foot (AF	ion Factors) = 325,851 gallons									
	1 ct	1 million gallons (m	g) = 3.07 acre-feet (AF) = 448.8 gallons per minute (g	pm)								
div cer	ORTANT: Once your applic ersion and maximum request	1 million gallons (m ubic foot per second (c.f.s.) ation has been assigned a ed annual guantity of wate	g) = 3.07 acre-feet (AF) = 448.8 gallons per minute (g priority date and file number r under that priority number ca	pm) the requested maximum rate of n <u>NOT</u> be increased. Please be r are appropriate and reasonable								
dive cer	ORTANT: Once your application and maximum request tain your requested maximum	1 million gallons (m ubic foot per second (c.f.s.) ation has been assigned a ed annual quantity of wate n rate of diversion and max	g) = 3.07 acre-feet (AF) = 448.8 gallons per minute (g priority date and file number r under that priority number ca timum annual quantity of wate	the requested maximum rate of n NOT be increased. Please be								
dive cer for	ORTANT: Once your application and maximum requested maximum transmum transmum transmum your proposed project.	1 million gallons (m ubic foot per second (c.f.s.) ation has been assigned a ed annual quantity of wate n rate of diversion and max appropriated for the follow	g) = 3.07 acre-feet (AF) = 448.8 gallons per minute (g priority date and file number r under that priority number ca timum annual quantity of wate	the requested maximum rate of n NOT be increased. Please be								
dive cer for	PORTANT: Once your application and maximum requested maximum your requested maximum your proposed project. The water is intended to be	1 million gallons (m ubic foot per second (c.f.s.) ation has been assigned a ed annual quantity of wate n rate of diversion and max appropriated for the follow	g) = 3.07 acre-feet (AF) = 448.8 gallons per minute (g priority date and file number r under that priority number ca timum annual quantity of wate ing use(s):	the requested maximum rate of n <u>NOT</u> be increased. Please be r are appropriate and reasonable								
dive cer for	PORTANT: Once your application and maximum requested maximum your requested maximum your proposed project. The water is intended to be	1 million gallons (m ubic foot per second (c.f.s.) ation has been assigned a ed annual quantity of wate n rate of diversion and max appropriated for the follow	g) = 3.07 acre-feet (AF) = 448.8 gallons per minute (g priority date and file number r under that priority number ca timum annual quantity of wate ing use(s):	the requested maximum rate of In <u>NOT</u> be increased. Please be r are appropriate and reasonable								
dive cer for	PORTANT: Once your application and maximum requested tain your requested maximum your proposed project. The water is intended to be	1 million gallons (m ubic foot per second (c.f.s.) ation has been assigned a ed annual quantity of wate n rate of diversion and max appropriated for the follow Irrigation*	g) = 3.07 acre-feet (AF) = 448.8 gallons per minute (g priority date and file number r under that priority number ca timum annual quantity of wate ing use(s):	the requested maximum rate of n <u>NOT</u> be increased. Please be r are appropriate and reasonable Water Power*								

F0 1 GMD ____ DUA ____ Use IRR Source S County WS By ALB Date 200 TR # PY00104433 12/19/2023 Code REGFee \$ ___ Receipt Date Check #

File No.

5. The location(s) of the proposed diversion work(s) (well, pumpsite, etc.) are described below. Note that for the application to be accepted, the point of diversion location(s) <u>must</u> be described to at least a 10-acre tract, unless you specifically request a 60-day period of time in which to locate the site within a specifically described, minimal legal quarter section of land. You can specify a nickname for the point of diversion via the A.K.A. line to help you identify it.

If the source of supply is groundwater, a separate application shall be filed for each proposed well or battery of wells, except that a single application may include up to four wells within a circle with a quarter (¼) mile radius in the same local source of supply which do not exceed a maximum diversion rate of 20 gallons per minute per well.

A battery of wells is defined as two or more wells connected to a common pump by a manifold; or not more than four wells in the same local source of supply within a 300-foot radius circle which are being operated by pumps not to exceed a total maximum diversion rate of 800gpm and which supply water to a common distribution system.

- (A) One in the <u>SE</u> quarter of the <u>SW</u> quarter of the <u>SW</u> quarter of Section <u>18</u>, more particularly described as being near a point <u>315</u> feet North and <u>4520</u> feet West of the Southeast corner of said section, in Township <u>1</u> South, Range <u>5</u> **E** W, WASHINGTON County, KS. A.K.A:
- (B) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ E W, _____ County, KS. A.K.A: _____
- (C) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range ____ E W, _____ County, KS. A.K.A: _____
- (D) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ E UW, _____ County, KS. A.K.A: ______
- (E) One in the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ E UW, _____ County, KS. A.K.A: ______
- 6. The proposed project for diversion of water will consist of <u>ONE DAM</u> (number of wells, pumps, dams, etc.) and was/will be completed on or by the following date: <u>JUNE 2024</u>

(date each was or will be completed)

7. The first actual application of water for the proposed beneficial use was or is estimated to be JULY 2024

(Date)

 List any application, appropriation of water, water right, or vested right file number that covers the same point(s) of diversion or any of the same place of use described in this application. Also list any other recent modifications made to existing permits or water rights in conjunction with the filing of this application.
 P/U - 49010

12/19/2023

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Page 2 of 4

KS Dept Of Agriculture

File No.

No No

9. Will pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works?

Yes No If yes, a check valve shall be required. All chemigation safety requirements must be met including a chemigation permit and reporting requirements.

10. If you are planning to impound water, please contact DWR prior to submitting this application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir.

Have you made an application for a permit for construction of this dam and reservoir with DWR?

If yes, write the Water Structures permit number here:

11. Furnish a detailed topographic or aerial map that depicts the following information:

The application <u>must</u> be supplemented by a topographic map, aerial photograph or a detailed plat showing the information described in A-D below.

- (A) The center of the section, the section lines or the section corners, and labels showing the appropriate section, township and range numbers, as well as a north arrow and scale,
- (B) The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion works) described in Item No. 5 of the application, showing the North-South distance and the East-West distance from a section line or southeast corner of section,
- (C) The location of the proposed place of use identified by crosshatching,
- (D) For Groundwater Use, the location of any existing water wells of any kind within ½ mile of the proposed well or wells and indicate for each well its type of use and the name and mailing address of the property owner or owners, (If there are no wells within ½ mile, please indicate that on the map.)

For Surface Water Use, the names and addresses of the landowner(s) ½ mile downstream and ½ mile upstream from your property lines, and

- (E) The locations of proposed or existing dams, dikes, reservoirs, canals, pipelines, power houses, and any other structures for the purpose of storing, conveying, or using water.
- 12. For groundwater use, furnish copies of the driller's logs for all test holes or completed wells. Please ensure that the driller's logs provide depth to the static water level. If driller's logs cannot be obtained for an existing well, provide the following information:

Well location as shown in Item No. 5	(A)	(B)	(C)	(D)	(E)
Date drilled			and the second	(
Total depth of well				1 <u>111111111111111111111111111111111111</u>	1 <u></u>
Depth to static water level					

13. The owner(s) of the point of diversion, if other than the applicant is:

APPLICANT

(name address and abone)	
(name, address, and phone)	
	12/19/2023
(name, address, and phone)	Water Resources
	Received

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Received

KS Dept Of Agriculture 14. The owner(s) of the property where the water is used, if other than the applicant, is: VINCENT A BRUNA %KATHLEEN ANN BRUAN 2375 SPENCE AVE HOLLENBERG KS 66946

(name, address, and phone)

-	(name, address, and phone)
15.	The relationship of the applicant to the proposed place where the water will be used is that of:
	Owner Agent Tenant Other:
16.	A water use correspondent (WUC) must be designated. The WUC will be mailed the annual water use report, which must be filed with the Division by March 1 of each year. Failure to timely file an accurate water use report will subject the owner(s) to a civil fine of up to \$1,000 and potential suspension of the water appropriation or right. By signing this application, I verify that the owner(s) of the water right or permit have confirmed that the following person or agent should be designated as the WUC:

SEE #14

(name, address, and phone)

17. I understand that if this application is approved, there could be times, as determined by the Division of Water Resources, when I would not be allowed to divert water. This could affect the economics of my decision to appropriate water. Situations where this might occur may include times when minimum desirable streamflow (MDS) requirements are not met, when Assurance District or Water Marketing releases are made from storage in federal reservoirs, when a Water Reservation Right upstream of a federal reservoir is administered, or when water rights administration becomes necessary to prevent impairment.

I declare, under penalty of perjury, that I have legal access to or control of, the point(s) of diversion described in this application from the landowner or the landowner's authorized representative.

By signing below, I verify that the information set forth above is true to the best of my knowledge, I agree with all statements made above, and that this application is submitted in good faith.

Applicant Signature)

12-15-23 (Date)

(Applicant Name - please print)

(Applicant Title, if applicable - please print)

Assisted by BRETT BUNGER

TFO/WATER COMMISSIONER Date: 12-15-23

(office/title)

FEE SCHEDULE

Make checks payable to the Kansas Department of Agriculture.

1. The fee for an application for a permit to appropriate water for beneficial use, except for domestic, waterpower, dewatering, or sediment control use, shall be (see No. 2 below if requesting storage):

Million Gallons (mg)	Acre-Feet (AF)	Fee
≤ 32.585	≤ 100	\$200.00
32.586 - 104.272	100.1 - 320.0	\$300.00
> 104.272	> 320	\$300.00 plus \$20 for each additional 100AF (32.586mg) or any part thereof

2. The fee for an application in which storage of water is requested, except for domestic use, shall be:

Million Gallons (mg)	Acre-Feet (AF)	Fee
≤ 81.462	≤ 249.9	\$200.00
≥ 81.463	≥ 250	\$200.00 plus \$20 for each additional 100AF (32.586mg) or any part thereof

Note: If an application requests both direct use and storage, the fee charged shall be as determined under No. 1 or No. 2 above, whichever is greater, but not both fees.

3. The fee for an application for waterpower or dewatering use shall be \$100.00 plus \$200.00 for each 44,880 gallons per minute (100 c.f.s.), or part thereof, of the diversion rate requested.

IMPORTANT NOTICE

If this application is approved, the applicant shall notify the Chief Engineer when the diversion works (well, pump, reservoir, pit, etc.) has/have been completed via the Notice of Completion of Diversion Works form (DWR 1-203.11) and along with the statutorily required field inspection fee of:

- \$200.00 for sediment control use or groundwater pits for industrial use, or
- \$400.00 for all other uses made of water .

Failure to complete the diversion works by the deadline specified in the Approval of Application and Permit to Proceed (or any subsequent extension of time of said deadline) and/or failure to submit the proper notice and field inspection fee will result in the dismissal of the appropriation and forfeiture of any priority associated with it.

For assistance with this application, please contact the Division of Water Resources (DWR).

Manhattan HQ 1320 Research Park Dr. Manhattan, KS 66502 785-564-6638

ş î *

Topeka Field Office 1131 SW Winding Rd, Ste 400 Topeka, KS 66615 785-296-5733

Stafford Field Office 300 S. Main St Stafford, KS 67578 620-234-5311

Stockton Field Office 820 S. Walnut Stockton, KS 67669 785-425-6787

Garden City Field Office 4532 W. Jones Ave, Ste B Garden City, KS 67846 620-276-2901

Helpful Sources of Information

DWR Water Appropriation Program DWR Water Appropriation Forms KGS Water Well Completion Records DWR Structures Program

https://agriculture.ks.gov/divisions-programs/dwr/water-appropriation https://agriculture.ks.gov/divisions-programs/dwr/water-appropriation/water-appropriation-forms https://www.kgs.ku.edu/Magellan/WaterWell/index.html https://agriculture.ks.gov/divisions-programs/dwr/dam-safety/permit-requirements

Received

Water Resources

KS Dept Of Agriculture

IRRIGATION USE SUPPLEMENTAL SHEET

File No.

Water Resources Received

KS Dept Of Agriculture

Name of Applicant (Please Print): VINCE BRUNA

1. Please supply the name and address of each landowner, the legal description of the lands to be irrigated, and designate the actual number of acres to be irrigated in each forty acre tract or fractional portion thereof:

Landowner of Record NAME: VINCE BRUNA %KATHLEEN ANN BRUNA

ADDRESS: 2375 SPENCE AVE HOLLENBERG KS 66946

c	Т	R		NI	E1⁄4		NW ¹ ⁄4				SW1⁄4				SE¼				TOTAL
S			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	TOTAL
18	1	5E									2.5	.5	5	25					33
			-																

Landowner of Record NAME: _____

ADDRESS: _____

C	Т	R		NI	E1⁄4		NW ¹ /4				SW1/4				SE ¹ /4				TOTAL
3			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	TOTAL

Landowner of Record NAME: _____

ADDRESS:

c	Т	R		NI	E1⁄4		NW ¹ /4				SW1⁄4				SE¼				TOTAL
8			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	TOTAL

Water Resources Received

KS Dept Of Agriculture

PDFs
Mean Annual Precipitation
Soil Cover Complex

Mean Annual Precip, in	31
Soil Cover Complex No.	76
Drainage Area, acres	94
Runoff at 20% Chance, AF	73.18

DO NOT EDIT BELOW THIS LINE

Std. Dev. 90%	1.48
Std. Dev. 80%	1.44
Avg	1.46

Mean annual runoff for CN = 75, inches	4.33
Mean annual runoff for $CN = 80$, inches	5.35
Interp. Mean annual runoff for CN = 76, inches	4.54

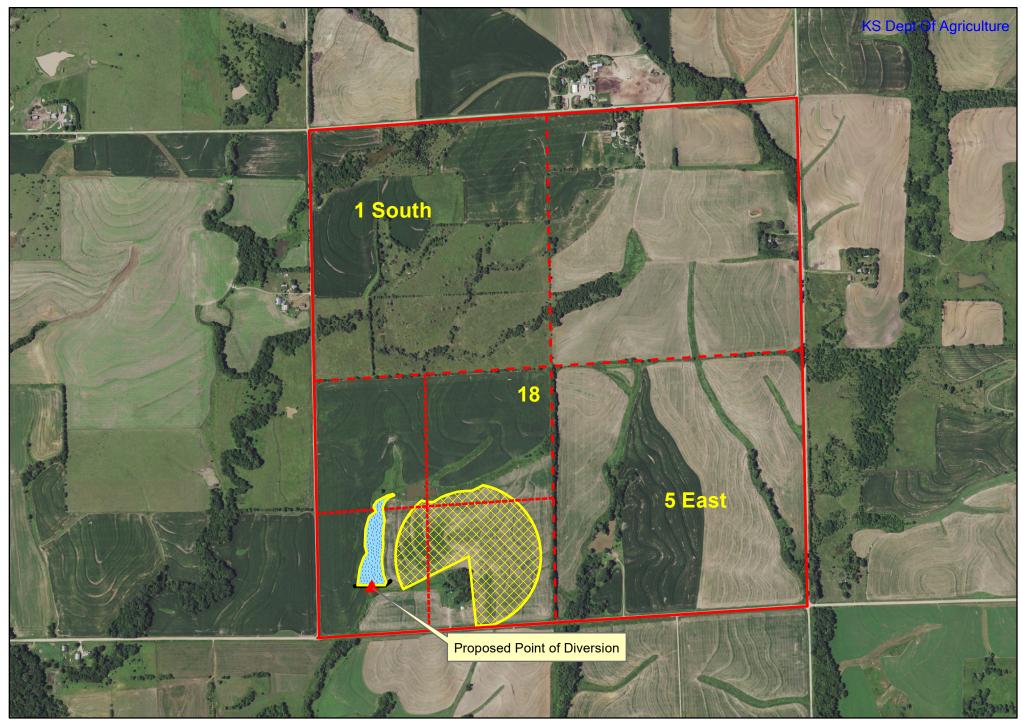
% Chance Firm Coefficients				
	50%	80%	90%	
а	0.5317	0.1216	0.0527	
b	1.0815	1.2538	1.3547	

%Chance Firm	Runoff, in	Comp. Runoff, in
50%	2.73	2.73
80%	0.81	0.80
90%	0.41	0.42
20%		9.34

NEW APPLICATION

1:12,000

Water Resources Received



Si USDA NRCS

Name

Legal Desc.

Pond - Table of Quantities and Location Map

12/19/2023

Unit

KS

Water Resources

6/16

Vince Bruna	Ident No.	Received
S18 T1S R5E	County Washington	

KS Dept Of Agriculture

Design Quantity

Sheet 1 of 4

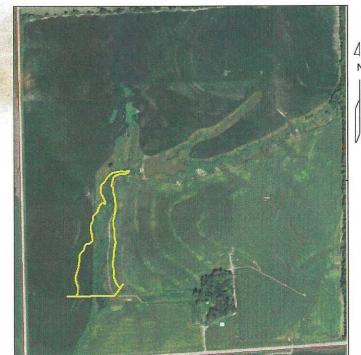
Installed

Quantity

Index to Drawing Details

Table of Quantities

Description	Item
Table of Quantities and Location Map	Earthfill, Embankment
Principal Spillway Details	Earthfill, Cutoff Trench
Profile and Section	
Supply Line Details	8 inch Dia. PVC Pipe, SDR 26
	8 inch Dia. PVC Canopy Inlet
	Manual tamp backfill 8 inch
	Anti-Seep collars 48 in. X 48 in., 8 in. Dia.
	Stockwater Supply Line, see Supply Line De
	Grass Seeding (see KS-ECS-4)



Location Map

Scale: 1" = Not to scale

Drainage Area Soil Complex Curve Number (CN)

94 acres 78

Before any investigation or construction activity, the excavator is responsible for calling Kansas One-Call at 800-344-7233 (800-DIG-SAFE) or 811.

Embankment				cu yds	6,143	
Cutoff Trench				cu yds	802	
a. PVC Pipe,	SDR 26	1		lin ft	75.0	
a. PVC Canop		,		each	1	
amp backfill 8				lin ft	69.0	
p collars 48 in		n., 8 in. Dia.		each	3	
er Supply Lin	e, see S	Supply Line D	Details			
				41		
eding (see K	S-ECS-	4)		acres	1.0	
-			Res	ervoir Capa	city Table	-
4		Elevation	Area (acres	Storage	Total	Outflow (cfs)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1292.00	0.00	0.00	0.00	
N		1294.00	0.32	0.32	0.32	
12		1296.00	1.06	1.38	1.70	
		1298.00	1.91	2.97	4.67	
		1300.00	3.04	4.95	9.62	
	PS	1302.00	4.10	7.14	16.76	
A D		100100	F 00	0.00	00.45	

	Elevation	(acres)	(ac ft)	(ac ft)	(cfs)
	1292.00	0.00	0.00	0.00	
	1294.00	0.32	0.32	0.32	
	1296.00	1.06	1.38	1.70	
	1298.00	1.91	2.97	4.67	
	1300.00	3.04	4.95	9.62	
PS	1302.00	4.10	7.14	16.76	
AS	1304.00	5.29	9.39	26.15	
	1306.00	6.66	11.95	38.10	
TD	1306.50	7.15	3.45	41.55	
	1308.00	8.62	11.83	53.38	
			R.		
					a

Tim With	6/29/22
Designed by	Date
Checked by	Date
Approved by	Date
Layout by	Date
Checkout by	Date

Water Resources Received

USDA NRCS

Pond - Input Data

6/16 KS Dept Of Agriculture Sheet 1 of 4

KS

Basic Project Data

Buele i rejeet Butu	
Name	Vince Bruna
Ident No.	
Designer	Tim With
Design Date	6/29/2022
Checker	
Checked Date	
County	Washington
Legal Description	
Section	18
Township	1 S
Range	5 @ E O W

Hydrology Data

Hydrology Entry 💿 Auton	natic 🔿 Manual
24-Hour Storr	n Data:
2-year, 24-hour	3.14 inches
5-year, 24-hour	3.93 inches
10-year, 24-hour	4.63 inches
25-year, 24-hour	5.65 inches
50-year, 24-hour	6.49 inches
Annual Rainfall	30.1 inches
90% Chance Runoff	0.6 inches
80% Chance Runoff	1.0 inches
50% Chance Runoff	2.1 inches
Mean Annual Runoff	2.6 inches

Drainage Area*	94.0	acres
Drainage Area Flow Length	3825	feet
Watershed Slope	4	%
Weighted Curve Number*	78	

Storage Data

Sediment Yield Rate Entry		75
Years of sediment storage capacity provided		20 years
Grassland Sediment Yield and Area	0.11 inches	0.0 acres
Cropland Sediment Yield and Area	0.25 inches	94.0 acres
	Suggested	Use
Capacity for Beneficial Use Storage	0.6 inches	1.8 inches
Frequency of Storm For Detention Storage Calculation	2 year	2 year
Detention Storage, Vs (suggested value is runoff volume)	1.23 inches	1.22 inches

Structure Data

Settled Top of Dam Elevation	1306.5 feet	1306.5 feet
Allowance for Settlement	5 %	5 %
Top Width of Dam	10 feet	10 feet
Auxiliary Spillway Crest Elevation		1304.0 feet
Fill Slope on Upstream Side of Dam		3 :1
Upstream Berm Top Elev. (leave blank if no berm)	1302.0 feet	
Fill Slope on Downstream Side of Dam Outlet Channel Elevation		3 :1 1292.0 feet

Principal Spillway Data

Principal Spillway Inlet Elevation		1302.0	feet
Principal Spillway Outlet Elevation	1293.0 feet	1293.0	feet
Length of Principal Spillway Pipe	75.0 feet	75.0	feet
Principal Spillway Pipe Diameter		8	inches
Barrel Angle (skew)		90	degrees
Location of PSW on Dam Centerline (Station)		2+30	

Structure Options

Principal Spillway Pipe PVC Seepage Protection Anti-Seep Collar - Polyethylene Inlet Canopy Inlet Pipe Support None Water Supply Line Provided Auxiliary Spillway Constructed

Practice Approval Criteria

NRCS Job Class	I
Effective Height (Feet)	12.0
Drainage Area (Sq. Miles)	0.147
Principal Spillway Dia. (Inches)	. 8
Storage x Effective Height (Ac. Ft. ²)	314
DWR Class Size of Dam	1
Height of Dam (Feet)	14.5
Storage at Aux. Spillway Crest elev (Ac. Ft.)	26.15

Notes

Seepage Protection	
Anti-Seep Collar Width	

48	inches
4	feet

Auxiliary Spillway Outside Slope	6 :1
Auxiliary Spillway Inside Slope	6 :1
Auxiliary Spillway located on	Left end
Auxiliary Spillway Inside Cut	0.0 feet
Auxiliary Spillway Crest Width	36.0 feet
Auxiliary Spillway Design Profile	
Approach Slope	%
Level Section Starting Station	· · · · ·
Level Section Ending Station	0+50
Exit Slope	%

Water Supply Line Data

Location on Dam Centerline Station	
Upstream Berm Width (enter zero if no berm)	feet

https://usdagcc-my.sharepoint.com/personal/timothy_with_usda_gov/Documents/Documents/Excel/Pond Designs/Bruna,Vince_SW_18-1-5_2022_Pond_revised_SouthSite.xlsm

Water Resources Received

USDA NRCS

Pond - Curve Number (CN) Calculations

KS Dept Of Ag	riculture ^{6/16}
---------------	---------------------------

Name	Vind
Legal Desc.	S18
Designed by	Tim
Checked by	

040 T40 DEE	
S18 T1S R5E	
Tim With	

Practice	Pond
County	Washington
Date	6/29/2022
Date	
	Sheet 2 of 4

Acres (ac) and Curve Number (CN)

Antecedent Runoff	Land Use and Treatment			Hydrolo	gic	Soil G	Four)	
Condition (ARC)	and/or Practice 1/ or Hydrologic Condition 2/		A B					D	
		(ac)	CN	(ac) (CN	(ac)	CN	(ac)	CN
ARC II	Fallow - Crop Residue Cover		75		34		89		92
ARC II	Fallow - Contoured and Gradient Terraces		70	5. 10	79		85		88
ARC II	Row Crops - Straight Row 3/		69		78		85		88
ARC II	Row Crops - Contoured 3/	_	67		77		82		86
ARC II	Row Crops - Contoured and Gradient Terraces		64		72	94	78		81
ARC II	Small Grain - Straight Row 3/		63		74		82		85
ARC II	Small Grain - Contoured 3/	_	61		73		81		84
ARC II	Small Grain - Contoured and Gradient Terraces	1	59		70		78	-	81
ARC II	Cultivated - Storage-Type Terraces 4/ 5/		50		60		67		70
ARC II	Pasture or Range 6/ - poor		68	E	79		86		89
ARC II	Pasture or Range 6/ - fair		50	8	69		79		84
ARC II	Pasture or Range 6/ - good		50		51		74		80
ARC II	Woods - poor		50		66		77		83
ARC II	Woods - fair		50		30		73		79
ARCII	Misc. 7/		72		32		87	-	89
ANO II			12	l · · · ·	52		07		05
					-				
			-		_				
					_				
									<u> </u>
			_		_				
	<u>1</u>								
· · · · · · · · · · · · · · · · · · ·						-			
			A		В		С		D
	Acres by Hydrologic Soil Gr	oup	10			94			
	, , , , , , , , , , , , , , , , , , ,	lenerate and							
	Drainage A	Area 94	acre	es					
	Weighted Curve Num		1						
	5		100						
/ Use estimated lo	ng-term land use condition								
	tion for cultivated agriculture lands (including fallow	w) is hased	on t	he effec	tive	ness	of the	2	
	ng between a poor and good condition.	() 10 Daooa	on c				or an		
	g individual gradient, open-end, storage, and unde	raround ou	tlet t	erraces					
			iner t	chaces					
	nole areas and other areas with significant storage		uno t	orrages					
	g structures downstream of underground outlet and	u storage-t	ypei	enaces					
/ Includes meadow									
/ includes roads, f	armsteads, urban areas, etc. (about 3% for most r	urai areas)							

KS

USDA NRCS

Pond - Stage Storage Calculations

12/19/2023

Water Resources

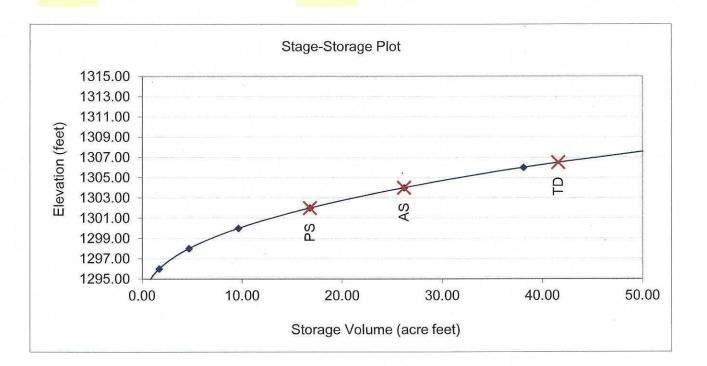
KS 6/16

Name	Vince Bruna	Ident No.		Received
Legal Desc.	S18 T1S R5E	County	Washington	
Designed by	Tim With	Date	6/29/2022	KS Dept Of Agriculture
Checked by	52	Date		

Sheet 3 of 4

Enter Area Data: (*) denotes input data.

Elevation (feet)*	Area Storage (ac)* (ac ft)		Total Storage (ac ft)		
(leet)	(ac)	(ac n)	(ac it)		
1292.00	0.00	0.00	0.00		
1294.00	0.32	0.32	0.32		
1296.00	1.06	1.38	1.70		
1298.00	1.91	2.97	4.67		
1300.00	3.04	4.95	9.62		
1302.00	4.10	7.14	16.76		
1304.00	5.29	9.39	26.15		
1306.00	6.66	11.95	38.10		
1308.00	8.62	15.28	53.38		



Water Resources

Received KS 6/16

Pond - Canopy Inlet Pipe Design

KS Dept Of Agriculture

Name	
Legal Desc.	
Designed by	
Checked by	

Vince Bruna S18 T1S R5E Tim With

Ident No.	
County	Washington
Date	6/29/2022
Date	

Sheet 4 of 4

Top Width of Dam	10.0 feet
Settled Top of Dam Elevation	1306.5 feet = 41.55 ac ft
Allowance for Settlement	5 percent = 0.73 feet
Auxiliary Spillway Elevation	1304.0 feet = 26.15 ac ft
Principal Spilway Inlet Elevation	1302.0 feet = 16.76 ac ft Acre Feet Storage > 15, Water
Low Point Elev. on Centerline of Dam	1292.0 feet Rights Permit needed
Channel Elevation Under Pipe Outlet	1292.0 feet
Principal Spillway Outlet Elevation	1293.0 feet
Front of Dam Fill Slope	3.0 :1 = 0.333 ft/ft grade
Back of Dam Fill Slope	3.0 :1 = 0.333 ft/ft grade
Detention Volume	9.63 acre-feet
Principal Spillway Pipe Diameter	8 inches = 0.667 feet
Barrel Angle (Skew)	90 degrees = 1.000
Pipe Projection	5 feet
Horiz. Pipe Length Above Centerline	19.9 feet
Horiz. Pipe Length Below Centerline	53.5 feet
Total Horizontal Pipe Length	73.4 feet
True Pipe Slope Length	74.0 feet
Additional Length for Canopy Inlet	1.0 feet
Pipe Grade	0.123 ft/ft
b	45.7 feet
Saturated Distance, L	70.6 feet
0.6b	27.4 feet NO PIPE SUPPORT
	WARNING! Unsupported downstream pipe
	shall not exceed 8 feet.
Anti-Seep Collar Length	48 inches = 4.0 feet
Number of Collars	3.0 Use 3 collars
Collar Spacing	13.3 feet Use 13 feet
Pipe Length	75.0 feet
Final Pipe Q	4.6 cfs
Final Pipe Grade	0.120 ft/ft = 12.0 %
Time to Empty Reservoir	31.57 hours
Maximum Fill Over Pipe	6.8 feet
Pipe Material	PVC
Pipe Strength or Thickness	SDR 26

Notes:

1. This sheet applies only to canopy or hood inlet principal spillways.

2. Pipe length to be used includes an allowance for the canopy inlet length.

3. Calculations use a Manning's equation roughness coefficient "n" value of 0.009.

USDA NRCS

STORAGE QUANTITY REQUEST

Water Resources Received

KS Dept Of Agriculture

RESERVOIR CAPACITY = 16.76 AF DIRECT USE = 39.6 AF RESERVOIR SURFACE AREA = 4.10 ACRES 1 YEAR NET EVAPORATION = 4.10 ACRES X 15"/12" = 5.1 AF

STORAGE = 39.6 AF + 16.76 AF + 5.1 AF = 61.46 AF

UPSTREAM AND DOWNSTREAM LANDOWNERS

UPSTREAM -

#1) BRIAN BRUNA 601 N HOLLENBERG RD HANOVER KS 66945

DOWNSTREAM -

- #1) GEORGE STOUT 2450 27TH RD HOLLENBERG KS 66946
- #2) ELVIN & SHIRLEY HOLLE FAM TRUST
 3071 24TH RD
 BREMEN KS 66412

1320 Research Park Drive Manhattan, KS 66502 785-564-6700 www. agriculture.ks.gov

Mike Beam, Secretary



900 SW Jackson, Room 456 Topeka, KS 66612 785-296-3556

Laura Kelly, Governor

December 22, 2023

VINCE BRUNA 2375 SPENCE AVE HOLLENBERG KS 66946

RE: Application, File No(s). 51161

Dear Sir or Madam:

The Division of Water Resources (Division) has received your application(s) for a permit to appropriate water for beneficial use. Your application(s) has been assigned the file number(s) referenced above. Please be aware that the Division may have a large number of pending applications on hand at times and makes every attempt to process them in the order in which they are received. You will be contacted if additional information is required.

Please note, this letter only acknowledges receipt of your application(s) and does not guarantee approval. In accordance with the provisions of the Kansas Water Appropriation Act, the use of water as proposed prior to approval of the application(s) is unlawful.

Additional information about the process may be found on our website at <u>agriculture.ks.gov/divisions-</u> <u>programs/dwr</u>. If you have any other questions, please contact our office at 785-564-6640 or your local Topeka Field Office at 785-296-5733. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

enhans

Kris Neuhauser New Applications Lead Water Appropriation Program