

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 APPROPRIATE WATER FOR BENEFICIAL USE

03/14/2025  
9:00  
Water Resources  
Received  
KS Dept Of Agriculture  
State of Kansas



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

File Number: **51456**

This item to be completed by the Division of Water Resources staff.

RECEIVED  
3:50 pm  
MAR 13 2025  
Topeka Field Office  
DIVISION OF WATER RESOURCES

1. Name of Applicant: Vincent A. Bruna **PID 2128**  
Address: Attn: Kathleen Ann Bruna 2375 Spence Ave.  
City: Hollenberg State: KS Zip Code: 66946  
Phone: 785-337-2619 or 785-713-9083 Email: kathybruna51@gmail.com

2. The source of water is:  surface water in Unnamed trib (Little Blue River) **NEEDS STREAM NAME**  
(stream)  
 groundwater in \_\_\_\_\_  
(drainage basin)

3. The maximum annual quantity of water desired is 197  acre-feet  gallons  
to be diverted at a maximum rate of All NF  gpm  c.f.s.  natural flows  natural evaporation  
 This project involves surface water storage and redirection. The maximum annual quantity of water desired to be  
rediverted is 175  acre-feet  gallons, at a rate of 1,500  gpm  c.f.s.

### Conversion Factors

1 acre-foot (AF) = 325,851 gallons  
1 million gallons (mg) = 3.07 acre-feet (AF)  
1 cubic foot per second (c.f.s.) = 448.8 gallons per minute (gpm)

**IMPORTANT:** Once your application has been assigned a priority date and file number, the requested maximum rate of diversion and maximum requested annual quantity of water under that priority number can **NOT** be increased. Please be certain your requested maximum rate of diversion and maximum annual quantity of water are appropriate and reasonable for your proposed project.

4. The water is intended to be appropriated for the following use(s):  
 Artificial Recharge\*  Irrigation\*  Recreational\*  Water Power\*  
 Industrial\*  Municipal\*  Stockwatering\*  Sediment Control  
 Domestic  Dewatering  Hydraulic Dredging  Fire Protection  
 Thermal Exchange  Contamination Remediation

**\*IMPORTANT:** You **must** submit a supplemental form providing information to substantiate your request for the quantity of water listed in Item No. 3 for the intended use(s) referenced above.

3/31/2025  
LMoody

FOR OFFICE USE ONLY							
FO	<u>1</u>	GMD	<u>-</u>	DUA	<u>-</u>	Use	<u>IRR</u>
Code	<u>RE2</u>	Fee \$	<u>300.00</u>	TR #		Source	<u>SW</u>
						County	<u>WS</u>
						By	<u>BS</u>
						Date	<u>3-13-25</u>
						Receipt Date	<u>3-13-25</u>
						Check #	<u>1008</u>

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5. The location(s) of the proposed diversion work(s) (wells, pumps, etc.) are described below. Note that for the application to be accepted, the point of diversion location(s) **must** 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 (1/4) 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.

P/D 90724

- (A) One in the SE quarter of the SW quarter of the SW quarter of Section 18, more particularly described as being near a point 315 feet North and 4520 feet West of the Southeast corner of said section, in Township 1 South, Range 5 E W, Washington County, KS. A.K.A: PDIV: 90724
- (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 W, \_\_\_\_\_ County, KS. A.K.A: \_\_\_\_\_
- (E) 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: \_\_\_\_\_

6. The proposed project for diversion of water will consist of 1 dam  
(number of wells, pumps, dams, etc.)  
and was/will be completed on or by the following date: 6/24  
(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 2025  
(Date)

8. 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.

PD & PU overlap with application File No. 51161 (to be dismissed upon approval of new apps and change app)  
PU overlap with groundwater new application & File No. 49010.  
Limit to 175AF with 49010 and new GW app

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? **Yes**  **No**

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If yes, write the Water Structures permit number here:

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

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The application **must** 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 1/2 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 1/2 mile, please indicate that on the map.)

**For Surface Water Use**, the names and addresses of the landowner(s) 1/2 mile downstream and 1/2 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	-	_____	_____	_____	_____
Total depth of well	-	_____	_____	_____	_____
Depth to static water level	-	_____	_____	_____	_____

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

same as applicant

\_\_\_\_\_  
(name, address, and phone)

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\_\_\_\_\_  
(name, address, and phone)

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14. The owner(s) of the property where the water is used, if other than the applicant, is:  
**same as applicant**

\_\_\_\_\_  
(name, address, and phone)

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\_\_\_\_\_  
(name, address, and phone)

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15. The relationship of the applicant to the proposed place where the water will be used is that of:

Owner     Agent     Tenant     Other: \_\_\_\_\_

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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:

**same as applicant**

\_\_\_\_\_  
(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.

*Vincent Brown*

\_\_\_\_\_  
(Applicant Signature)

*3-6-25*

\_\_\_\_\_  
(Date)

*VINCENT BROWN*

\_\_\_\_\_  
(Applicant Name - please print)

\_\_\_\_\_  
(Applicant Title, if applicable - please print)

Assisted by *BGL*

*ES I/FO*  
(office/title)

Date: *3-6-25*

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DIVISION OF WATER RESOURCES**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

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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

**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>

**IRRIGATION USE  
SUPPLEMENTAL SHEET**

File No. \_\_\_\_\_

**PID 2128**

Name of Applicant (Please Print): Vincent A. Bruna %Kathleen Ann Bruna

- 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: Vincent A. Bruna %Kathleen Ann Bruna

ADDRESS: 2375 Spence Ave., Hollenberg, KS 66946

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL		
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE			
18	1S	5E											40	Lot 5 33	Lot 6 33	40					146

**P/U 65714**

**Landowner of Record** NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL		
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE			

**Landowner of Record** NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL		
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE			

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2. Please complete the following information for the description of the operation for the irrigation project. Attach supplemental sheets as needed.

a. Indicate the soils in the field(s) and their intake rates:

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Total:	100 %		

b. Estimate the average land slope in the field(s): \_\_\_\_\_ 1 \_\_\_\_\_ %

Estimate the maximum land slope in the field(s): \_\_\_\_\_ 1 \_\_\_\_\_ %

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c. Type of irrigation system you propose to use (check one):

- Center pivot
- Gravity system (furrows)
- Other, please describe: \_\_\_\_\_
- Center pivot - LEPA
- Gravity system (borders)
- "Big gun" sprinkler
- Sideroll sprinkler

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d. System design features:

i. Describe how you will control tailwater: None anticipated

ii. For sprinkler systems:

- (1) Estimate the operating pressure at the distribution system: \_\_\_\_\_ psi
- (2) What is the sprinkler package design rate? \_\_\_\_\_ gpm
- (3) What is the wetted diameter (twice the distance the sprinkler throws water) of a sprinkler on the outer 100 feet of the system? \_\_\_\_\_ feet
- (4) Please include a copy of the sprinkler package design information.

e. Crop(s) you intend to irrigate. Please note any planned crop rotations: Corn/Bean Rotation

f. Please describe how you will determine when to irrigate and how much water to apply (particularly important if you do not plan a full irrigation). Plant stress and soil moisture conditions

You may attach any additional information you believe will assist in informing the Division of the need for your request.

MAR 13 2025

Name Vince Bruna  
 Legal Desc. S18 T1S R5E  
 Designed by Tim With  
 Checked by \_\_\_\_\_

Ident No. \_\_\_\_\_  
 County Washington  
 Date 6/29/2022  
Topeka Field Office  
DIVISION OF WATER RESOURCES

Sheet 3 of 4

Design Data:

Drainage Area 94 acres = 0.147 sq mi      Flow Length 3825 feet      Watershed Slope 4 %  
 Weighted Curve Number (CN) 78      Time of Concentration (Tc) 0.82 hours

Storm	Rainfall	Runoff	Qi
2-year, 24-hour	3.14 inches	1.23 inches	75 cfs
5-year, 24-hour	3.93 inches	1.83 inches	115 cfs
10-year, 24-hour	4.63 inches	2.40 inches	152 cfs
25-year, 24-hour	5.65 inches	3.27 inches	210 cfs
50-year, 24-hour	6.49 inches	4.01 inches	258 cfs

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Sediment Storage

20 years of sediment storage capacity provided

Grassland:	<u>0.11</u> inches	<u>0.0</u> acres	<u>0.00</u> ac ft
Cropland:	<u>0.25</u> inches	<u>94.0</u> acres	<u>1.97</u> ac ft
Weighted Avg:	<u>0.251</u> inches	<u>94.0</u> acres	<u>1.97</u> ac ft

Total sediment storage = (0.251 inches) x (94 acres) / (12 in/ft) = **1.97 acre feet or 0.25 inches**  
 Required sediment storage is provided in reservoir below elevation 1296.3.

Beneficial Use Storage:

	Rainfall	Yield
Annual Rainfall	30.1 inches	
90% Chance Runoff	0.6 inches	4.70 ac ft
80% Chance Runoff	1.0 inches	7.83 ac ft
50% Chance Runoff	2.1 inches	16.45 ac ft
Mean Annual Runoff	2.6 inches	20.37 ac ft
<b>Design Capacity</b>	<b>1.84 inches</b>	<b>14.43 ac ft</b>

Input Sheet

Design Capacity is OK.

Storage at Principal Spillway (PSW) Elevation:

	% Chance Runoff			Mean Annual Rainfall	PSW Design
	90%	80%	50%		
Sediment Storage	1.97 ac ft	1.97 ac ft	1.97 ac ft	1.97 ac ft	1.97 ac ft
Beneficial Use Storage	4.70 ac ft	7.83 ac ft	16.45 ac ft	20.37 ac ft	14.43 ac ft
Total Storage Required	6.67 ac ft	9.80 ac ft	18.42 ac ft	22.33 ac ft	16.40 ac ft
Storage Provided at Elevation	1299.0 feet	1300.1 feet	1302.4 feet	1303.3 feet	1302.0 feet

Total Storage provided at PSW is 16.76 ac ft

4.1 acres of water surface provided at principal spillway (PSW) elevation.  
 Canopy Inlet principal spillway provided

Detention Storage (Vs):

Frequency of Storm For Storage Calculations = 2 -year, 24-hour  
 Volume of Runoff (Vr) = ( 1.23 inches) x (94 acres) x (1 ft/12 in) = **9.63 ac ft**  
 Use Vs = 1.22 inches = **9.59 ac ft**

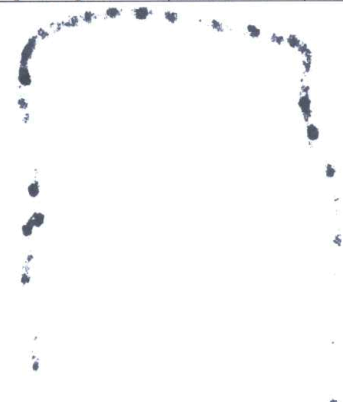
Required Principal Spillway Capacity (Qo) = 0.00 cfs/acre = 0.11 cfs **Value derived from flood routing.**  
 Table KS11-2 in Amendment KS29 to Chapter 11 of National Engineering Handbook Part 650, Engineering Field Handbook

Design Principal Spillway Discharge (Q) = **4.61 cfs** **Pipe Q is Adequate.**  
 Release Time (T) = 31.6 hours **Pipe Diameter 8 inches**

Storage at Auxiliary Spillway (ASW) Elevation:

	% Chance Runoff			Mean Annual Rainfall	ASW Design	Top of Dam
	90%	80%	50%			
Principal Spillway Storage	6.67 ac ft	9.80 ac ft	18.42 ac ft	22.33 ac ft	16.40 ac ft	Elev. <b>1306.5</b>
Detention Storage	9.59 ac ft	9.59 ac ft	9.59 ac ft	9.59 ac ft	9.59 ac ft	ac ft <b>41.55</b>
Total Storage Required	16.26 ac ft	19.39 ac ft	28.01 ac ft	31.92 ac ft	25.99 ac ft	
Elevation Providing Storage	1301.9 feet	1302.7 feet	1304.4 feet	1305.1 feet	1304.0 feet	

Total Storage provided at ASW is 26.15 ac ft





Pond - Table of Quantities and Location Map

Name Vince Bruna Ident No. \_\_\_\_\_  
 Legal Desc. S18 T1S R5E County Washington

Auto update index  
 (uncheck to retain user  
 edits to descriptions)

Index to Drawing Details

Sheet No.	Description
1	Table of Quantities and Location Map
2	Principal Spillway Details
3	Profile and Section
4	Supply Line Details

Table of Quantities

Item	Unit	Design Quantity	Installed Quantity
Earthfill, Embankment	cu yds	6,143	
Earthfill, Cutoff Trench	cu yds	802	
8 inch Dia. PVC Pipe, SDR 26	lin ft	75.0	
8 inch Dia. PVC Canopy Inlet	each	1	
Manual tamp backfill 8 inch	lin ft	69.0	
Anti-Seep collars 48 in. X 48 in., 8 in. Dia.	each	3	
Stockwater Supply Line, see Supply Line Details			
Grass Seeding (see KS-ECS-4)	acres	1.0	



Location Map

Reservoir Capacity Table

Elevation	Area (acres)	Storage (ac ft)	Total Storage (ac ft)	Outflow (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	

USDA NRCS KS Dept Of Agriculture

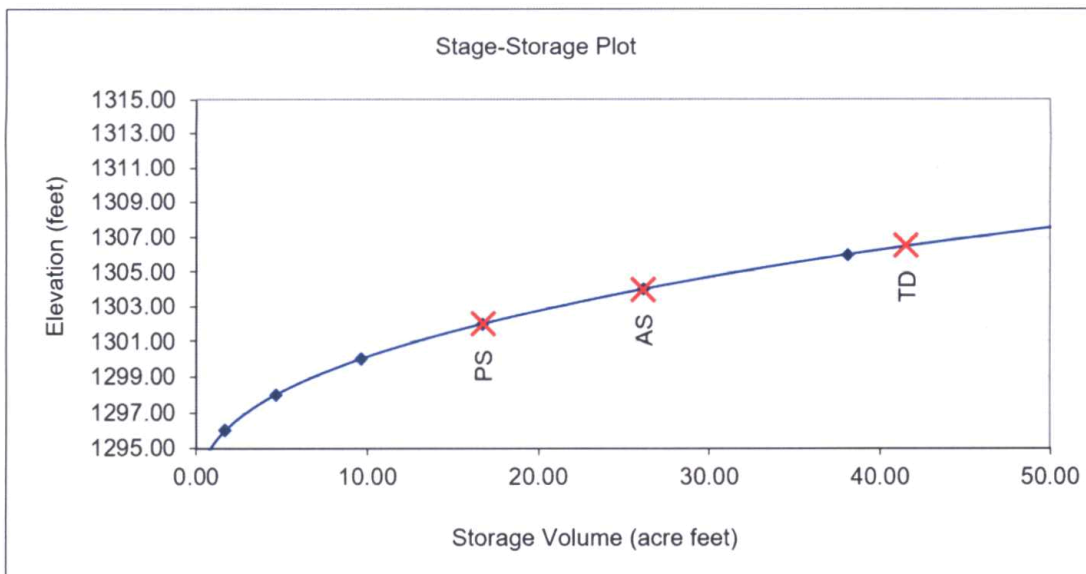
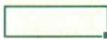
Pond - Stage Storage Calculations

Topka KS Field Office  
DIVISION OF WATER RESOURCES

Name Vince Bruna Ident No. \_\_\_\_\_  
 Legal Desc. S18 T1S R5E County Washington  
 Designed by Tim With Date 6/29/2022  
 Checked by \_\_\_\_\_ Date \_\_\_\_\_

Enter Area Data: (\*) denotes input data.

Elevation (feet)*	Area (ac)*	Storage (ac ft)	Total Storage (ac ft)
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



**Basic Project Data**

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 <input checked="" type="radio"/> E <input type="radio"/> W

**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	II
Effective Height (Feet)	12.0
Drainage Area (Sq. Miles)	0.147
Principal Spillway Dia. (Inches)	8
Storage x Effective Height (Ac. Ft. <sup>2</sup> )	314
DWR Class Size of Dam	1
Height of Dam (Feet)	14.5
Storage at Aux. Spillway Crest elev (Ac. Ft.)	26.15

**Hydrology Data**

Hydrology Entry	<input checked="" type="radio"/> Automatic <input type="radio"/> Manual
24-Hour Storm 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

**Watershed Characteristics**

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

\*Data from 'CN Calc' sheet.

**Notes**

--

**Storage Data**

	Acre Feet	Storage
Sediment Yield Rate Entry	<input checked="" type="radio"/> Automatic <input type="radio"/> Manual	
Major Land Resource Area	Units   Map	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

**Seepage Protection**

	PSW Details
Anti-Seep Collar Width	48 inches 4 feet

**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	Set ASW Elev	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		3 : 1
Outlet Channel Elevation		1292.0 feet

Edit Cutoff Trench Cross-Section

**Principal Spillway Data**

	Set Inlet Elev	PSW Design
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

**Auxiliary Spillway Data**

	ASW Design
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**

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

# Roehr's Machinery Inc



PO BOX 189  
1512 North 6th Street  
Beatrice, NE 68310  
(402) 228-3319



**Grower:** Vince Bruna

**Date:** 10/23/2024 **MAR 13 2025**

**Farm:** System Design 1 : 10/23/2024 **Field Name:** 7t bigger circle : 9/12/2014

**Field Area:** 148.56 acres Topeka Field Office  
WATER RESOURCES

**System Model:** E2065

**System Length:** 1,083.00 ft

**Total Irr. Area:** 87.74 acres

**Number of Spans:** 7



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# Planning Map

Date: 10/24/2024

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Customer(s): Vince Bruna

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Service Center: Washington, KS

MAR 13 2025

County: Washington

Agency: USDA-NRCS




Topeka Field Office  
DIVISION OF WATER RESOURCES



Assisted by: KEVIN ELLIOTT

Legal Description: SW1/4 18-1-5

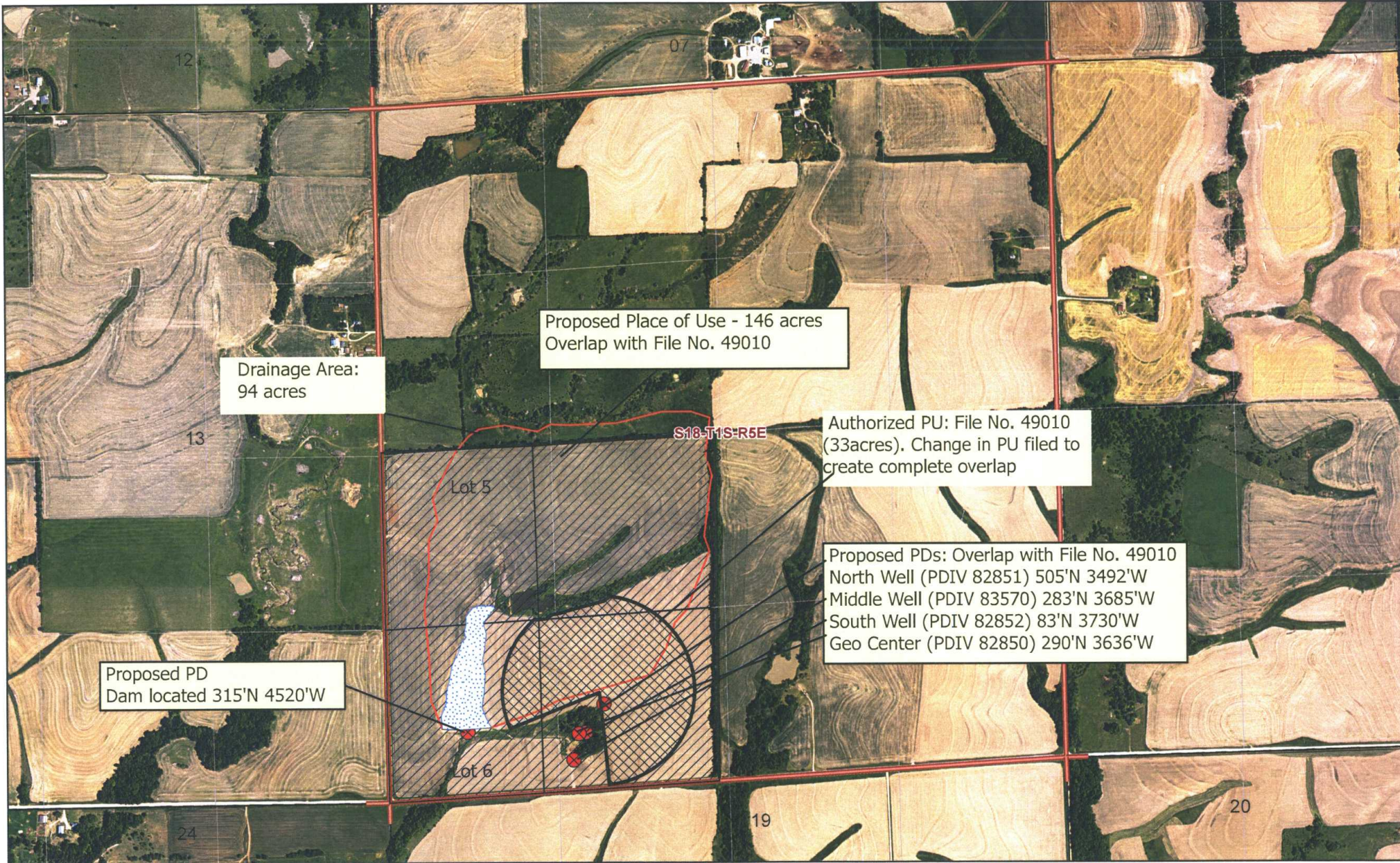
KS Dept Of Agriculture



-  Roads (NG911)
-  Sections\_a\_ks
-  Pond

AOI\_Contours\_2FT  true  
 Custom  false

# New Application Vincent Bruna



Names and addresses of the landowner(s) ½ mile downstream and ½ mile upstream from property lines have been included with the application.

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*Vincent Bruna*

3-6-25

Signature

Date

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Scale: 1:12,000

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**STORAGE QUANTITY REQUEST**

Reservoir Capacity: 16.76AF

Direct Use: 175AF (146 acres x 1.2)

Reservoir Surface Area: 4.10 acres

1 Year Net Evaporation: 4.10 acres X 15"/12" = 5.1AF

Storage: 175AF + 16.76AF + 5.1AF = 197AF

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**UPSTREAM AND DOWNSTREAM LANDOWNERS**

UPSTREAM:

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

#2) DELBERT & WANDA GREFE  
2564 28<sup>TH</sup> RD  
HOLLENBERG KS 66946

DOWNSTREAM:

#1) GEORGE STOUT  
2450 27<sup>TH</sup> RD  
HOLLENBERG KS 66946

#2) ELVIN & SHIRLEY HOLLE FAM TRUST  
3071 24<sup>TH</sup> RD  
BREMEN KS 66412

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MAR 13 2025

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DIVISION OF WATER RESOURCES

<b>PDFs</b>
<u>Mean Annual Precipitation</u>
<u>Soil Cover Complex</u>

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

DO NOT EDIT BELOW THIS LINE

% Chance Firm Coefficients			
	50%	80%	90%
a	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

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

03/14/2025

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KS Dept Of Agriculture



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



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

Mike Beam, Secretary

Laura Kelly, Governor

March 21, 2025

VINCENT A BRUNA  
2375 SPENCE AVE  
HOLLENBERG KS 66946

RE: Application, File No(s). **51456**

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 [agriculture.ks.gov/divisions-programs/dwr](http://agriculture.ks.gov/divisions-programs/dwr). 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,

Kris Neuhauser  
New Applications Lead  
Water Appropriation Program