

# 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.

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

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.*

## NEEDS STREAM NAME

File Number: **51096**

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

1. Name of Applicant: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Phone: \_\_\_\_\_ Email: \_\_\_\_\_

2. The source of water is:  surface water in \_\_\_\_\_ (stream)  
 groundwater in \_\_\_\_\_ (drainage basin)

3. The maximum annual quantity of water desired is \_\_\_\_\_  acre-feet  gallons  
to be diverted at a maximum rate of \_\_\_\_\_  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 \_\_\_\_\_  acre-feet  gallons, at a rate of \_\_\_\_\_  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.

|                     |            |        |            |      |                   |              |                  |         |           |    |            |      |                  |
|---------------------|------------|--------|------------|------|-------------------|--------------|------------------|---------|-----------|----|------------|------|------------------|
| FOR OFFICE USE ONLY |            |        |            |      |                   |              |                  |         |           |    |            |      |                  |
| FO                  | <b>1</b>   | GMD    | DUA        | Use  | <b>IRR</b>        | Source       | <b>S</b>         | County  | <b>NM</b> | By | <b>ALB</b> | Date | <b>8/25/2023</b> |
| Code                | <b>RE3</b> | Fee \$ | <b>320</b> | TR # | <b>PY00078737</b> | Receipt Date | <b>8/25/2023</b> | Check # |           |    |            |      |                  |

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) **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 (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 \_\_\_\_\_ 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: \_\_\_\_\_

(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 \_\_\_\_\_  
(number of wells, pumps, dams, etc.)  
and was/will be completed on or by the following date: \_\_\_\_\_  
(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 \_\_\_\_\_  
(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.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

8/25/2023



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

\_\_\_\_\_  
(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:

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

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

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

Assisted by \_\_\_\_\_ (office/title) Date: \_\_\_\_\_

**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<br>plus \$20 for each additional 100AF<br>(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<br>plus \$20 for each additional 100AF<br>(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>

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### **STORAGE CALCULATIONS**

TOTAL RESERVOIR CAPACITY = 149.9 AF

DIRECT USE = 320 AF

TOTAL RESERVOIR SURFACE AREA = 20.7 ACRES

1 YEAR NET EVAP = 20.7 ACRES X 10"/12" = 17.25 AF

STORAGE = 320 AF + 149.9 + 17.25 = 487 AF

### **UPSTREAM AND DOWNSTREAM LANDOWNERS**

UPSTREAM –

#1) MARK METZGER  
2293 P RD  
SENECA KS 66538

DOWNSTREAM –

#1) KATHLEEN F SCHRAAD TRUST  
810 HILLCREST DR  
SENECA KS 66538

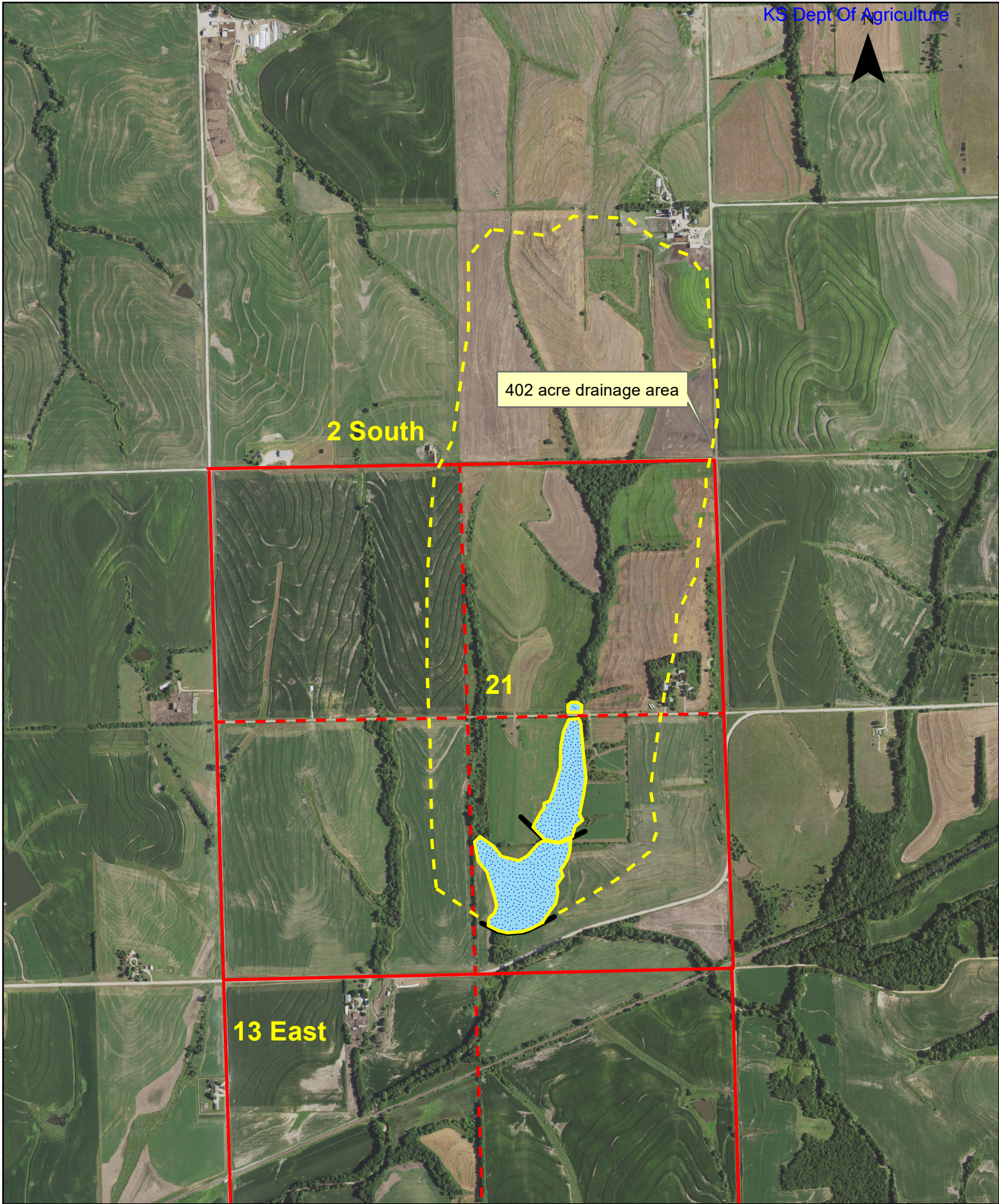
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# Drainage Area

8/25/2023

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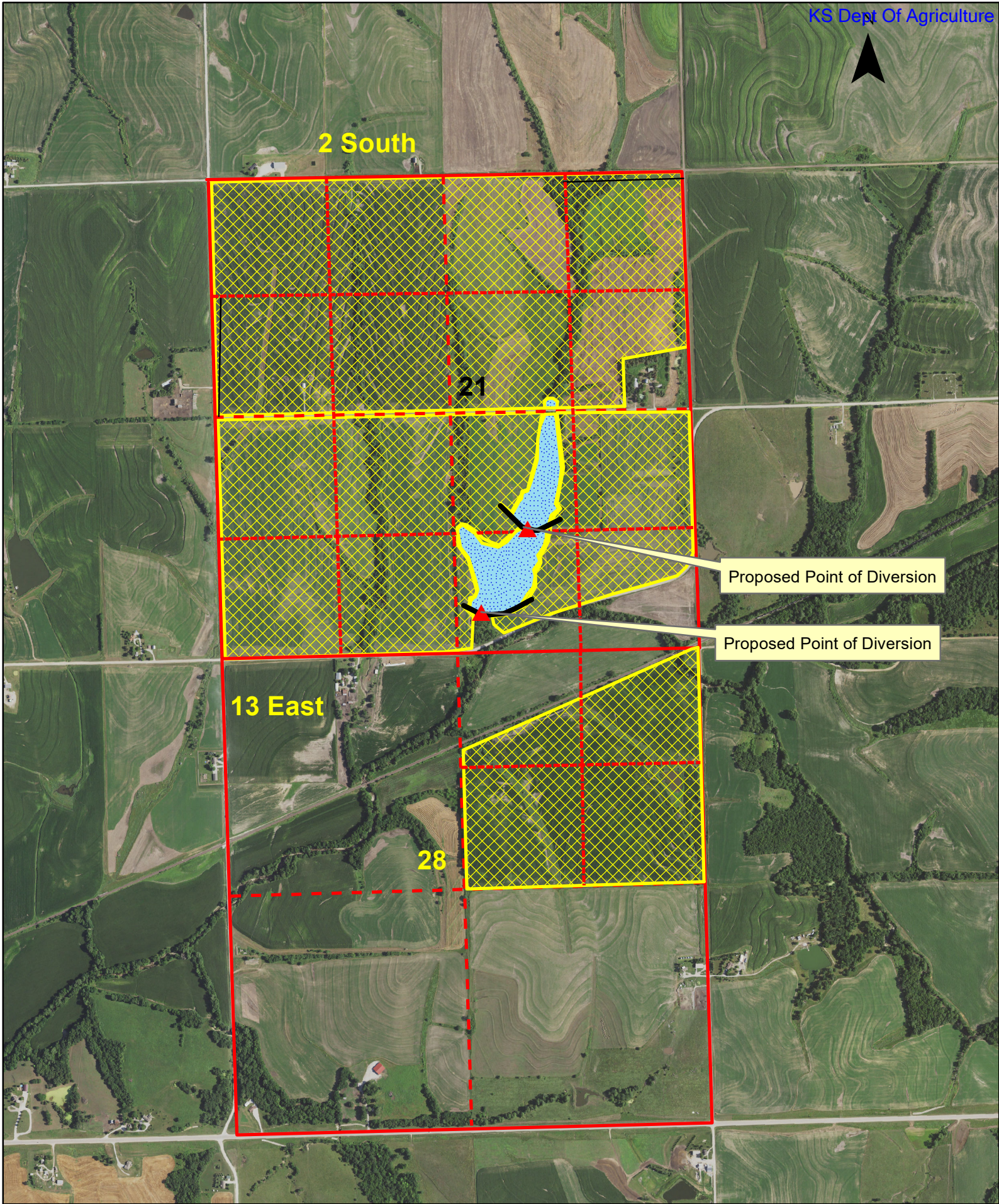
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# New Application

8/25/2023

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|   |
|---|
| <b>PDFs</b>                               |
| <a href="#">Mean Annual Precipitation</a> |
| <a href="#">Soil Cover Complex</a>        |

|                                 |               |
|---------------------------------|---------------|
| Mean Annual Precip, in          | <b>35</b>     |
| Soil Cover Complex No.          | <b>80</b>     |
| Drainage Area, acres            | <b>402</b>    |
| <b>Runoff at 20% Chance, AF</b> | <b>508.27</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 |

|               |      |
|---------------|------|
| Std. Dev. 90% | 1.37 |
| Std. Dev. 80% | 1.33 |
| Avg           | 1.35 |

| %Chance Firm | Runoff, in | Comp. Runoff, in |
|--------------|------------|------------------|
| 50%          | 4.87       | <b>4.87</b>      |
| 80%          | 1.58       | <b>1.56</b>      |
| 90%          | 0.84       | <b>0.86</b>      |
| 20%          |            | <b>15.17</b>     |

|  |      |
|--|------|
| Mean annual runoff for CN = 80, inches         | 7.75 |
| Mean annual runoff for CN = 85, inches         | 8.64 |
| Interp. Mean annual runoff for CN = 80, inches | 7.75 |

**IRRIGATION USE  
SUPPLEMENTAL SHEET**

Water Resources  
Received

KS Dept Of Agriculture

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

Name of Applicant (Please Print): **RYAN HAMMES**

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: **RYAN J & ANGIE M HAMMES TRUST**

ADDRESS: **1588 L4 RD SENECA KS 66538**

| S  | T | R   | NE¼ |    |    |    | NW¼ |    |    |    | SW¼ |    |    |    | SE¼ |    |    |    | TOTAL              |
|----|---|-----|-----|----|----|----|-----|----|----|----|-----|----|----|----|-----|----|----|----|--------------------|
|    |   |     | NE  | NW | SW | SE | NE  | NW | SW | SE | NE  | NW | SW | SE | NE  | NW | SW | SE |                    |
| 21 | 2 | 13E | 40  | 40 | 40 | 27 | 40  | 40 | 40 | 40 | 40  | 40 | 40 | 40 | 40  | 24 | 15 | 18 | 564                |
| 28 | 2 | 13E | 30  | 13 | 40 | 40 |     |    |    |    |     |    |    |    |     |    |    |    | 123                |
|    |   |     |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    | <b>TOTAL = 687</b> |

**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 |       |
|   |   |   |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |       |
|   |   |   |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |       |
|   |   |   |     |    |    |    |     |    |    |    |     |    |    |    |     |    |    |    |       |

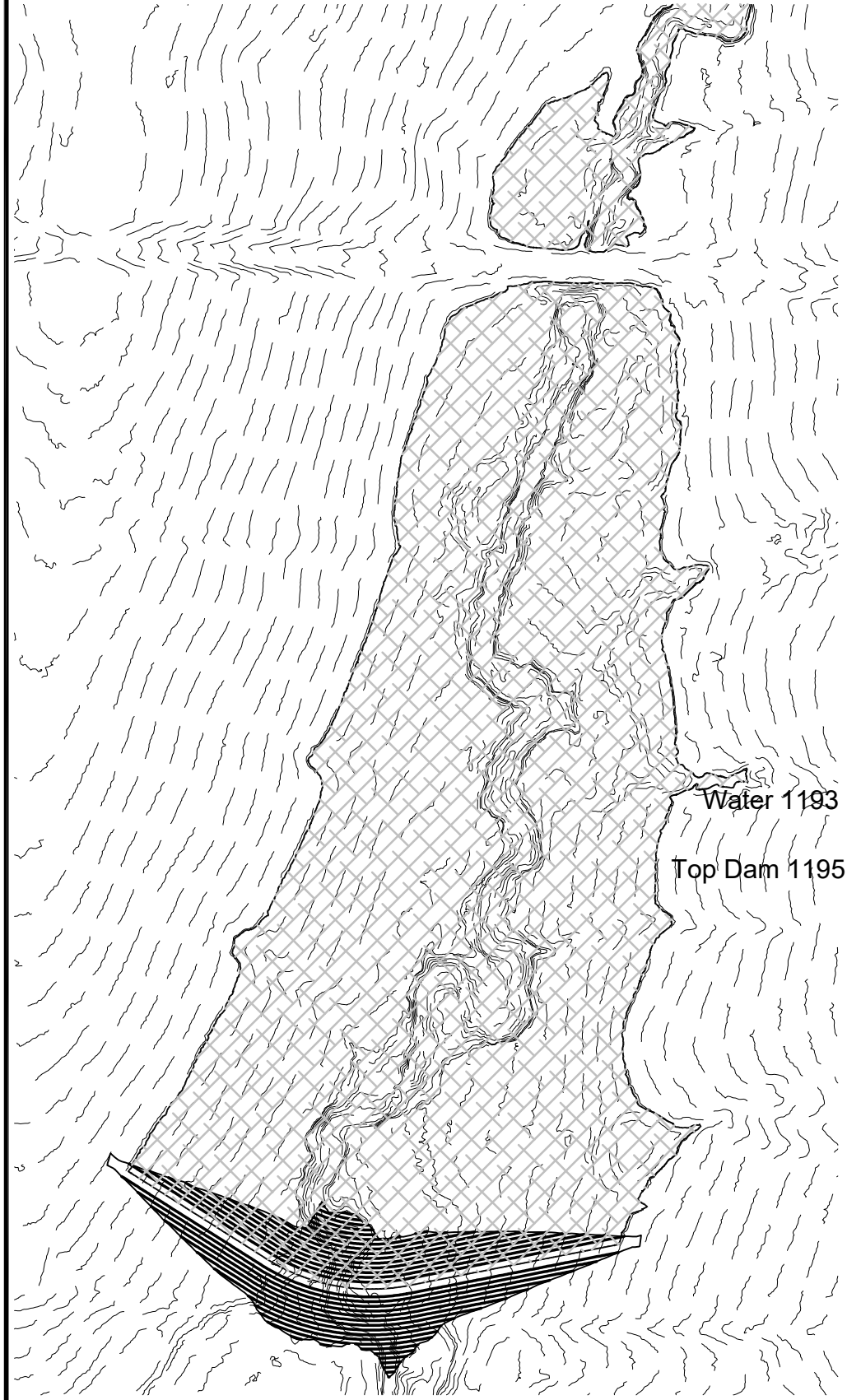
# TOPOGRAPHIC SURVEY

Compute Proposed Stream Obstruction Volume in the Southeast One-Quarter of Section 21, Township 2 South, Range 13 East of the Sixth Principal Meridian, Nemaha County, Kansas

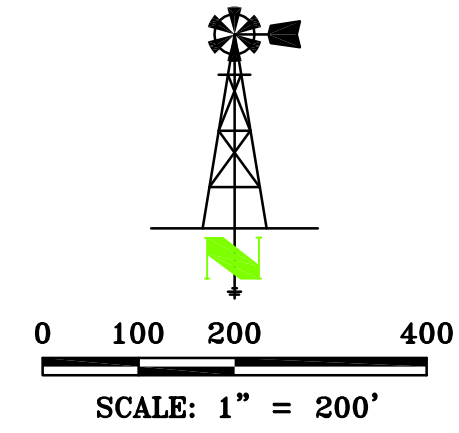
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| Contour | Area       | Inc Volume | Total Volume  | Ac. Ft.  | Embankment   | Height |
|---------|------------|------------|---------------|----------|--------------|--------|
| 1166    | -          |            |               |          |              |        |
| 1167    | 46.47      | 23.24      | 23.235        | 0.0005   |              | 1.15   |
| 1168    | 823.82     | 435.15     | 458.380       | 0.0105   |              | 2.15   |
| 1169    | 1,465.12   | 1,144.47   | 1,602.850     | 0.0368   |              | 3.15   |
| 1170    | 2,119.54   | 1,792.33   | 3,395.180     | 0.0779   |              | 4.15   |
| 1171    | 4,077.01   | 3,098.28   | 6,493.455     | 0.1491   |              | 5.15   |
| 1172    | 5,790.20   | 4,933.61   | 11,427.060    | 0.2623   |              | 6.15   |
| 1173    | 7,082.06   | 6,436.13   | 17,863.190    | 0.4101   |              | 7.15   |
| 1174    | 8,261.29   | 7,671.68   | 25,534.865    | 0.5862   |              | 8.15   |
| 1175    | 9,353.66   | 8,807.48   | 34,342.340    | 0.7884   |              | 9.15   |
| 1176    | 10,389.55  | 9,871.61   | 44,213.945    | 1.0150   |              | 10.15  |
| 1177    | 21,843.98  | 16,116.77  | 60,330.710    | 1.3850   |              | 11.15  |
| 1178    | 26,736.62  | 24,290.30  | 84,621.010    | 1.9426   |              | 12.15  |
| 1179    | 33,254.04  | 29,995.33  | 114,616.340   | 2.6312   |              | 13.15  |
| 1180    | 39,826.16  | 36,540.10  | 151,156.440   | 3.4701   |              | 14.15  |
| 1181    | 50,208.90  | 45,017.53  | 196,173.970   | 4.5035   |              | 15.15  |
| 1182    | 61,550.16  | 55,879.53  | 252,053.500   | 5.7864   |              | 16.15  |
| 1183    | 74,177.10  | 67,863.63  | 319,917.130   | 7.3443   |              | 17.15  |
| 1184    | 88,832.72  | 81,504.91  | 401,422.040   | 9.2154   |              | 18.15  |
| 1185    | 105,189.88 | 97,011.30  | 498,433.340   | 11.4425  |              | 19.15  |
| 1186    | 126,546.66 | 115,868.27 | 614,301.610   | 14.1024  |              | 20.15  |
| 1187    | 149,634.52 | 138,090.59 | 752,392.200   | 17.2725  |              | 21.15  |
| 1188    | 175,693.41 | 162,663.97 | 915,056.165   | 21.0068  |              | 22.15  |
| 1189    | 205,457.54 | 190,575.48 | 1,105,631.640 | 25.3818  |              | 23.15  |
| 1190    | 237,121.68 | 221,289.61 | 1,326,921.250 | 30.4619  | Cross Road   | 24.15  |
| 1191    | 270,375.74 | 253,748.71 | 1,580,669.960 | 36.2872  |              | 25.15  |
| 1192    | 303,420.82 | 286,898.28 | 1,867,568.240 | 42.8735  |              | 26.15  |
| 1193    | 333,831.04 | 318,625.93 | 2,186,194.170 | 50.1881  |              | 27.15  |
| 1194    | 366,427.67 | 350,129.36 | 2,536,323.525 | 58.2260  |              | 28.15  |
| 1195    | 403,789.18 | 385,108.43 | 2,921,431.950 | 67.0668  |              | 29.15  |
| 1196    | 438,848.39 | 421,318.79 | 3,342,750.735 | 76.7390  |              | 30.15  |
| 1197    | 478,642.87 | 458,745.63 | 3,801,496.365 | 87.2703  |              | 31.15  |
| 1198    | 525,019.20 | 501,831.04 | 4,303,327.400 | 98.7908  | 16,757       | 32.15  |
| 1199    | 576,989.15 | 551,004.18 | 4,854,331.575 | 111.4401 | 18,749       | 33.15  |
| 1199.25 | 587,391.17 | 145,547.54 | 4,999,879.115 | 114.7814 |              | 33.40  |
| 1199.50 | 597,545.84 | 148,117.13 | 5,147,996.241 | 118.1817 |              | 33.65  |
| 1199.75 | 608,402.34 | 150,743.52 | 5,298,739.764 | 121.6423 |              | 33.90  |
| 1200    | 618,501.55 | 153,362.99 | 5,452,102.750 | 125.1631 | 20,889       | 34.15  |
| 1201    | 660,280.72 | 639,391.14 | 6,091,493.885 | 139.8415 | 23,207       | 35.15  |
| 1202    | 710,388.93 | 685,334.83 | 6,776,828.710 | 155.5746 | 25,694       | 36.15  |
| 1203    | 775,196.00 | 742,792.47 | 7,519,621.175 | 172.6267 | Overtop Road | 37.15  |
| 1204    | 841,030.36 | 808,113.18 | 8,327,734.355 | 191.1785 | 31,195       | 38.15  |
| 1205    | 901,930.98 | 871,480.67 | 9,199,215.025 | 211.1849 | 34,243       | 39.15  |



General Notes for Site:  
 No Field verification of LIDAR elevations performed.  
 Front toe of stream obstruction elevation: 1170.18'  
 Rear toe of stream obstruction elevation: 1165.85'  
 Assumed top of structure width: 12  
 Assumed front and back slope: 3:1



LAND SURVEYOR'S CERTIFICATE  
 THIS IS TO CERTIFY THAT THIS SURVEY  
 WAS DONE BY THE UNDERSIGNED, AND  
 THAT THE SURVEY WAS DONE ON THE  
 GROUND ON \_\_\_\_\_ .

THIS DRAWING ORIGINALLY CREATED AT  
 SPECIFIED SCALE. IF LINE BELOW DOES NOT  
 MEASURE 1 INCH, DRAWING HAS BEEN  
 REDUCED.  
 ORIGINAL DRAWING  
 SIZE: 1 INCH

**JORGENSEN SURVEYING**  
 73051 617 Ave  
 Tecumseh, NE 68450  
 (402) 335-2033  
 jorgensensurveying@gmail.com

Stream Obstruction  
 SE 1/4 Sec 21, T2S, R13E  
 Nemaha County, Kansas  
 PREPARED FOR  
 MWI - Hammes

|           |          |
|-----------|----------|
| SCALE     | 1"=200'  |
| FIELD ON: | -        |
| CHK. BY   | MARCY    |
| DWN. BY   | BRENT    |
| DATE:     | 07/03/23 |
| SHEET     | 1 OF 2   |
| JOB NO.   | 5262.163 |

# TOPOGRAPHIC SURVEY

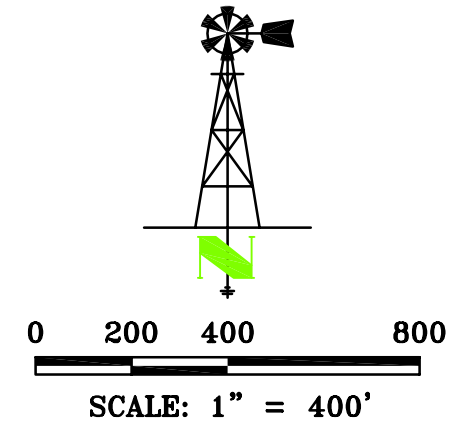
Compute Proposed Stream Obstruction Volume in the Southeast One-Quarter of Section 21, Township 2 South, Range 13 East of the Sixth Principal Meridian, Nemaha County, Kansas

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Water Level at  
Elev: 1199.75'



THIS DRAWING ORIGINALLY CREATED AT SPECIFIED SCALE. IF LINE BELOW DOES NOT MEASURE 1 INCH, DRAWING HAS BEEN REDUCED.

ORIGINAL DRAWING  
SIZE: 1 INCH

**JORGENSEN SURVEYING**  
73051 617 Ave  
Tecumseh, NE 68450  
(402) 335-2033  
jorgensensurveying@gmail.com

Stream Obstruction

SE 1/4 Sec 21, T2S, R13E  
Nemaha County, Kansas

PREPARED FOR

MWI - Hammes

|           |          |
|-----------|----------|
| SCALE     | 1"=400'  |
| FIELD ON: | -        |
| CHK. BY   | MARCY    |
| DWN. BY   | BRENT    |
| DATE:     | 07/03/23 |

SHEET 2 OF 2

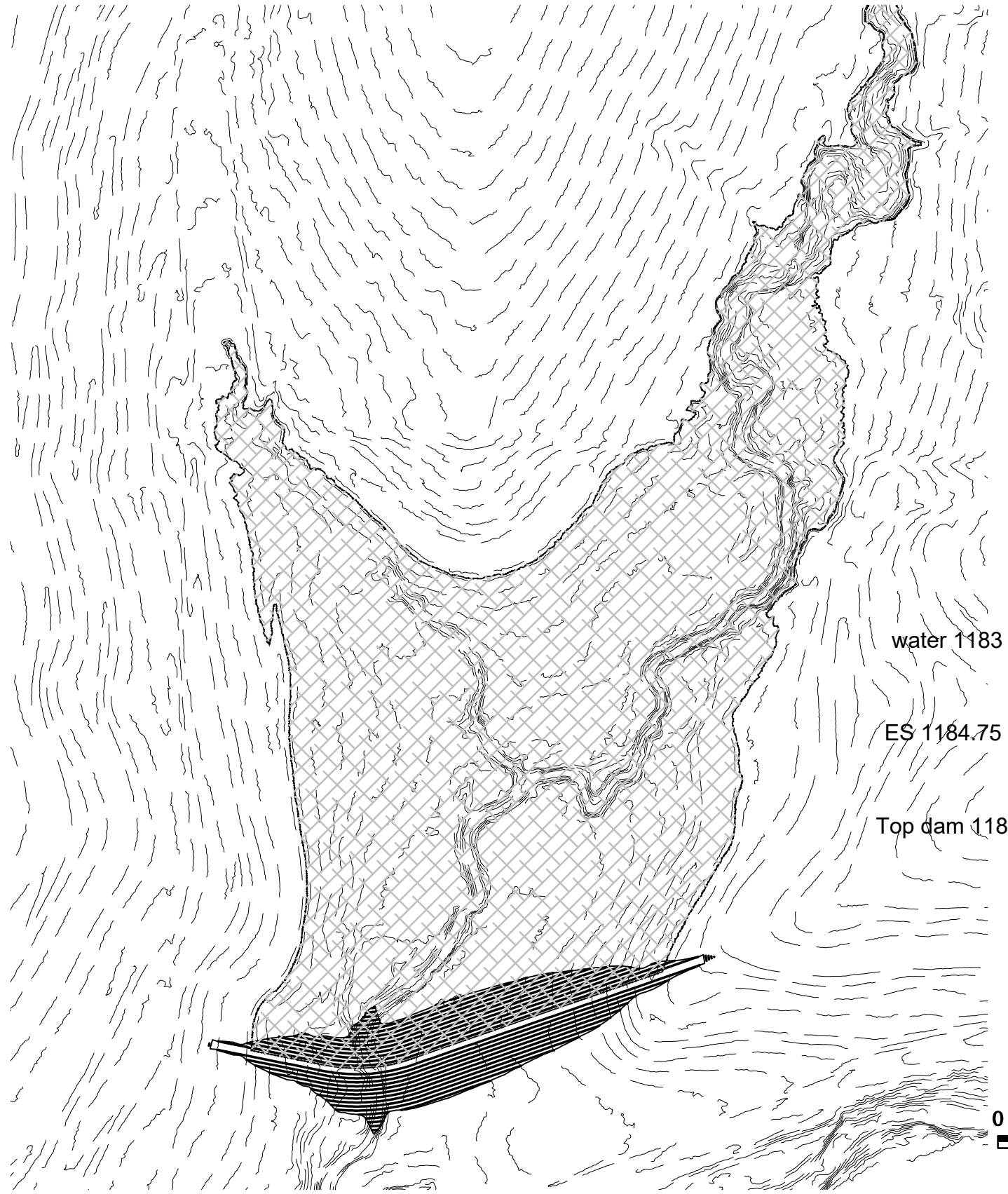
JOB NO.  
5262.163

8/25/2023

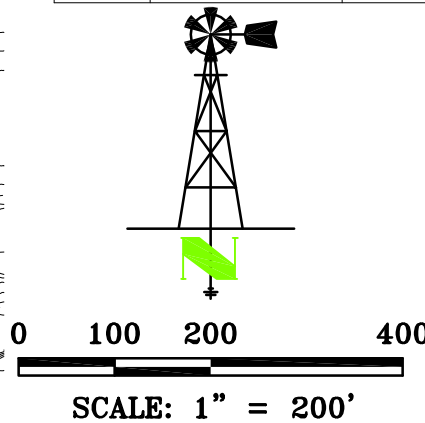
# TOPOGRAPHIC SURVEY

## Compute Proposed Stream Obstruction Volume in the Southeast One-Quarter of Section 21, Township 2 South, Range 13 East of the Sixth Principal Meridian, Nemaha County, Kansas

Water Resources  
Received  
  
KS Dept Of Agriculture



| Contour | Area         | Inc Volume | Total Volume  | Ac. Ft.  | Embankment | Height |
|---------|--------------|------------|---------------|----------|------------|--------|
| 1158    | -            |            |               |          |            |        |
| 1159    | 93.16        | 46.58      | 46.580        | 0.0011   |            | 0.73   |
| 1160    | 363.76       | 228.46     | 275.040       | 0.0063   |            | 1.73   |
| 1161    | 3,619.96     | 1,991.86   | 2,266.900     | 0.0520   |            | 2.73   |
| 1162    | 6,327.75     | 4,973.86   | 7,240.755     | 0.1662   |            | 3.73   |
| 1163    | 9,330.48     | 7,829.12   | 15,069.870    | 0.3460   |            | 4.73   |
| 1164    | 12,537.16    | 10,933.82  | 26,003.690    | 0.5970   |            | 5.73   |
| 1165    | 16,048.68    | 14,292.92  | 40,296.610    | 0.9251   |            | 6.73   |
| 1166    | 19,794.04    | 17,921.36  | 58,217.970    | 1.3365   |            | 7.73   |
| 1167    | 27,611.22    | 23,702.63  | 81,920.600    | 1.8806   |            | 8.73   |
| 1168    | 33,178.52    | 30,394.87  | 112,315.470   | 2.5784   |            | 9.73   |
| 1169    | 57,007.50    | 45,093.01  | 157,408.480   | 3.6136   |            | 10.73  |
| 1170    | 79,585.69    | 68,296.60  | 225,705.075   | 5.1815   |            | 11.73  |
| 1171    | 111,964.27   | 95,774.98  | 321,480.055   | 7.3802   |            | 12.73  |
| 1172    | 148,770.35   | 130,367.31 | 451,847.365   | 10.3730  |            | 13.73  |
| 1173    | 178,367.73   | 163,569.04 | 615,416.405   | 14.1280  |            | 14.73  |
| 1174    | 206,941.22   | 192,654.48 | 808,070.880   | 18.5508  |            | 15.73  |
| 1175    | 243,145.60   | 225,043.41 | 1,033,114.290 | 23.7170  |            | 16.73  |
| 1176    | 283,174.96   | 263,160.28 | 1,296,274.570 | 29.7584  |            | 17.73  |
| 1177    | 337,343.01   | 310,258.99 | 1,606,533.555 | 36.8809  |            | 18.73  |
| 1178    | 381,333.82   | 359,338.42 | 1,965,871.970 | 45.1302  |            | 19.73  |
| 1179    | 423,507.65   | 402,420.74 | 2,368,292.705 | 54.3685  |            | 20.73  |
| 1180    | 457,747.35   | 440,627.50 | 2,808,920.205 | 64.4839  |            | 21.73  |
| 1181    | 494,703.85   | 476,225.60 | 3,285,145.805 | 75.4166  |            | 22.73  |
| 1182    | 532,098.00   | 513,400.93 | 3,798,546.730 | 87.2026  |            | 23.73  |
| 1183    | 573,425.16   | 552,761.58 | 4,351,308.310 | 99.8923  |            | 24.73  |
| 1184    | 627,023.37   | 600,224.27 | 4,951,532.575 | 113.6715 | 12,865     | 25.73  |
| 1184.25 | 639,648.91   | 158,334.04 | 5,109,866.610 | 117.3064 |            | 25.98  |
| 1184.50 | 651,720.80   | 161,421.21 | 5,271,287.824 | 121.0121 |            | 26.23  |
| 1184.75 | 662,280.26   | 164,250.13 | 5,435,537.956 | 124.7828 |            | 26.48  |
| 1185    | 673,241.26   | 166,940.19 | 5,602,478.146 | 128.6152 | 14,675     | 26.73  |
| 1186    | 725,012.82   | 699,127.04 | 6,301,605.186 | 144.6649 | 16,643     | 27.73  |
| 1187    | 797,083.21   | 761,048.02 | 7,062,653.201 | 162.1362 | 18,769     | 28.73  |
| 1188    | 870,557.37   | 833,820.29 | 7,896,473.491 | 181.2781 | 21,075     | 29.73  |
| 1189    | 936,271.45   | 903,414.41 | 8,799,887.901 | 202.0176 | 23,564     | 30.73  |
| 1190    | 1,001,321.37 | 968,796.41 | 9,768,684.311 | 224.2581 | 26,240     | 31.73  |



General Notes for Site:  
 No Field verification of LIDAR elevations performed.  
 Front toe of stream obstruction elevation: 1160.29'  
 Rear toe of stream obstruction elevation: 1158.27'  
 Assumed top of structure width: 12  
 Assumed front and back slope: 3:1  
 LAND SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THIS SURVEY  
 WAS DONE BY THE UNDERSIGNED, AND  
 THAT THE SURVEY WAS DONE ON THE  
 GROUND ON \_\_\_\_\_.



THIS DRAWING ORIGINALLY CREATED AT SPECIFIED SCALE. IF LINE BELOW DOES NOT MEASURE 1 INCH, DRAWING HAS BEEN REDUCED.

ORIGINAL DRAWING  
SIZE: 1 INCH

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 73051 617 Ave  
 Tecumseh, NE 68450  
 (402) 335-2033  
 jorgensensurveying@gmail.com

Stream Obstruction

SE 1/4 Sec 21, T2S, R13E  
 Nemaha County, Kansas

PREPARED FOR  
 MWI - Hammes

|           |          |
|-----------|----------|
| SCALE     | 1"=200'  |
| FIELD ON: | -        |
| CHK. BY   | MARCY    |
| DWN. BY   | BRENT    |
| DATE:     | 05/20/23 |
| SHEET     | 1 OF 2   |
| JOB NO.   | 5262.159 |

# TOPOGRAPHIC SURVEY

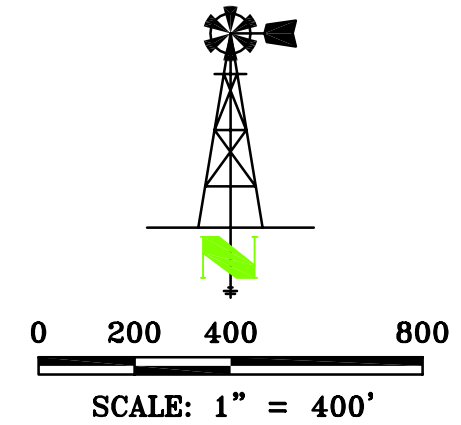
Compute Proposed Stream Obstruction Volume in the Southeast One-Quarter of Section 21, Township 2 South, Range 13 East of the Sixth Principal Meridian, Nemaha County, Kansas

8/25/2023

Water Resources  
Received

KS Dept Of Agriculture

Water Level at  
Elev: 1184.75'



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ORIGINAL DRAWING  
SIZE: 1 INCH

**JORGENSEN**  
**SURVEYING**

73051 617 Ave  
Tecumseh, NE 68450  
(402) 335-2033  
jorgensensurveying@gmail.com

Stream Obstruction

SE 1/4 Sec 21, T2S, R13E  
Nemaha County, Kansas

PREPARED FOR

MWI - Hammes

SCALE

FIELD ON:

CHK. BY

MARCY

DWN. BY

BRENT

DATE:

05/20/23

SHEET 2 OF 2

JOB NO.  
5262.159

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



State of Kansas

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

File Number: \_\_\_\_\_

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

1. Name of Applicant: RYAN HAMMES  
Address: 1588 L4 RD  
City: SENECA State: KS Zip Code: 66538  
Phone: \_\_\_\_\_ Email: \_\_\_\_\_

2. The source of water is:  surface water in HARRIS CREEK (stream)  
 groundwater in SOUTH FORK BIG NEMAHA RIVER (drainage basin)

3. The maximum annual quantity of water desired is 320  acre-feet  gallons  
to be diverted at a maximum rate of 1500  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 \_\_\_\_\_  acre-feet  gallons, at a rate of \_\_\_\_\_  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.

| FOR OFFICE USE ONLY |              |            |                    |               |              |          |            |  |
|---------------------|--------------|------------|--------------------|---------------|--------------|----------|------------|--|
| FO _____            | GMD _____    | DUA _____  | Use _____          | Source _____  | County _____ | By _____ | Date _____ |  |
| Code _____          | Fee \$ _____ | TR # _____ | Receipt Date _____ | Check # _____ |              |          |            |  |



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) **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.

(A) One in the SE quarter of the SW quarter of the SE quarter of Section 21, more particularly described as being near a point 400 feet North and 1350 feet West of the Southeast corner of said section, in Township 2 South, Range 13 E W, NEMAHA 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 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 PUMPSITE  
(number of wells, pumps, dams, etc.)  
and was/will be completed on or by the following date: JUNE 2024  
(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)

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.

P/U - ANOTHER APPLICATION THAT WILL BE FILED FOR STORAGE OF WATER IN

2 RESERVOIRS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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  
 If yes, write the Water Structures permit number here: \_\_\_\_\_

11. Furnish a detailed topographic or aerial map that depicts the following information:  
 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:  
**APPLICANT**  
 \_\_\_\_\_  
 (name, address, and phone)

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

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

**APPLICANT**

\_\_\_\_\_  
(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:

**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.

**Keith Grimm**

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

 Digitally signed by Keith Grimm  
Date: 2023.08.24 10:20:57 -05'00'

**8-24-23**

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

**Keith Grimm**

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

**Agent**

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

Assisted by **BRETT BUNGER**

**TFO/WATER COMMISSIONER**

\_\_\_\_\_  
(office/title)

Date: **8-23-23**

## 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<br>plus \$20 for each additional 100AF<br>(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<br>plus \$20 for each additional 100AF<br>(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>

**DATA ENTRY SYSTEM ID NUMBER SHEET**

**FILE NUMBER** 51096

| <b>APPLICANT<br/>PERSON ID &amp; SEQ #</b> | <b>PDIV ID</b> | <b>BATTERY ID</b> |
|--|----------------|-------------------|
| <u>69157</u>                               | <u>90520</u>   |                   |
|  | <u>90521</u>   |                   |
|  |                |                   |
|  |                |                   |
|  |                |                   |
|  |                |                   |

| <b>LANDOWNER<br/>PERSON ID &amp; SEQ #</b> | <b>PUSE ID</b> |
|--|----------------|
| <u>69157</u>                               | <u>71508</u>   |
|  | <u>71509</u>   |
|  |                |
|  |                |
|  |                |
|  |                |

| <b>WATER USE CORRESPONDENT<br/>PERSON ID &amp; SEQ #</b> |
|--|
| <u>69157</u>   |
|  |
|  |
|  |