

State of Idaho
Department of Water Resources
Water Right License
Water Right No. 63-33545

Priority: July 18, 2011

Maximum Diversion Rate: 0.09 CFS

Maximum Diversion Volume: 14.0 AF

It is hereby certified that:

BRAD E TROXEL PO BOX 878 MIDDLETON ID 83644-0878 AND
LORENA L TROXEL PO BOX 878 MIDDLETON ID 83644-0878

has complied with the terms and conditions of the permit, issued pursuant to Application for Permit dated July 18, 2011, and has submitted Proof of Beneficial Use on March 25, 2022. An examination confirms water is diverted from:

Source : GROUND WATER

Beneficial Use

IRRIGATION

Period of Use

03/01 to 11/15

Rate of Diversion

0.09 CFS

Location of Point(s) of Diversion

GROUND WATER L4 (SW¼ SW¼), Sec. 35, Twp 05N, Rge 03W, B.M. CANYON County

Place of Use: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	03W	35											3.1 L4						3.1

Total Acres: 3.1

Conditions of Approval

1. This right when combined with all other rights shall provide no more than 0.03 cfs per acre nor more than 4.5 afa per acre at the field headgate for irrigation of the place of use.
2. This right does not grant any right-of-way or easement across the land of another.
3. When ordered by the Director, the right holder shall provide mitigation acceptable to the Director to offset depletion of lower Snake River flows needed for migrating anadromous fish. The amount of water required for mitigation, which is to be released into the Snake River or a tributary for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this right. Any order of the Director issued in accordance with this paragraph shall be in conformance with applicable rules allowing the right holder due process as the need for mitigation and the amount of mitigation are determined.

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JAN 31 2023

State of Idaho
Department of Water Resources
Water Right License
Water Right No. 63-33545

This license is issued pursuant to the provisions of Idaho Code § 42-219. The water right confirmed by this license is subject to all prior water rights and shall be used in accordance with Idaho law and applicable rules of the Department of Water Resources.

Signed this 24th day of January, 2023.



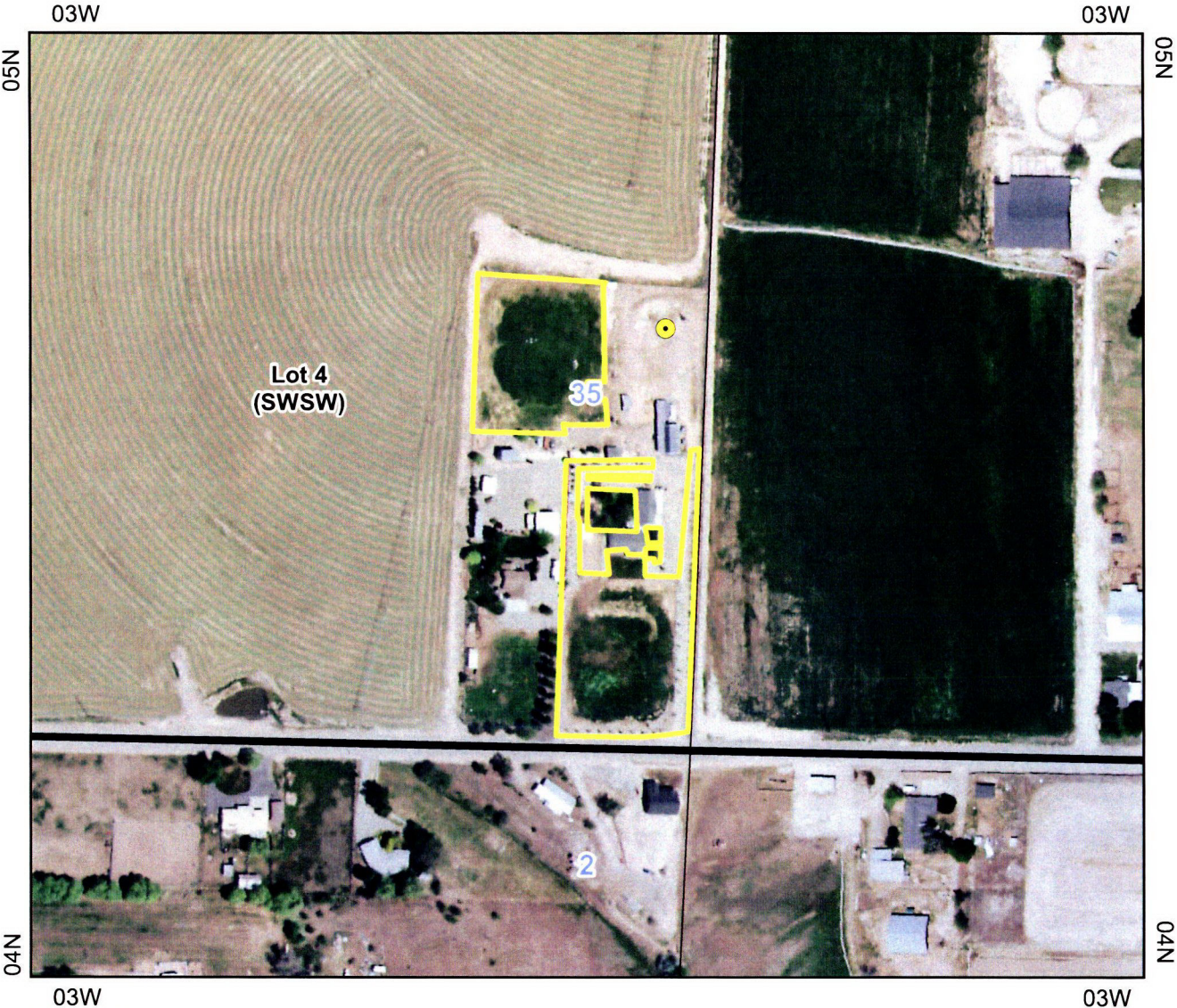
SCOTT STORMS
Water Rights Supervisor

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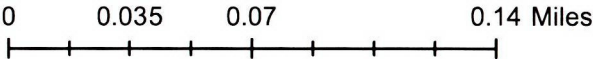
IAN 31 2023

State of Idaho
Department of Water Resources
Attachment to Water Right License
63-33545

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



- Place Of Use Boundary
- Townships
- PLS Sections
- Quarter Quarters
- Point of Diversion



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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-33545
Exam Date: 08/11/2022

1. Current Owner:
BRAD E TROXEL PO BOX 878 MIDDLETON ID 83644-0878 AND
LORENA L TROXEL PO BOX 878 MIDDLETON ID 83644-0878
2. Accompanied by:
Phone No:
Address:
Relationship to permit Holder:

3. SOURCE:
GROUND WATER

Method of Determination: Site visit, aerial imagery

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
GROUND WATER L4 (SW $\frac{1}{4}$ SW $\frac{1}{4}$), Sec. 35, Twp 05N, Rge 03W, B.M. CANYON County

Method of Determination: Handheld Garmin GPS: 43° 43' 21.69" N, 116° 40' 04.56" W

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	03W	35											3.1 L4						3.1

Total Acres: 3.1

Method of Determination:

3.
 - ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components.
 - ☒ Indicate weir size/pipe as applicable.
 - ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
 - ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
 - ☒ Photo of Diversion and System Attached

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4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0066280	Franklin	2HP			

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: N/A

E. FLOW CALCULATIONSN/A Additional Computation Sheets Attached

Measured Method: Pump specification and performance curve information provided by the applicant were used to estimate flow. Naan 5022 Impact Sprinkler Specifications from k-line irrigation system website – www.k-line.com, submersible pump using a Subdrive Connect SD to help deliver water to sprinkler and Dripline system. Dripline specification used in calculation listed below gathered from website: www.ndspro.com.

Permit holder runs 13 Impact Sprinklers max at a given time @ average 55 psi with 0.118" nozzle

Flow = (3.12 gpm/Sprinkler) x 13 Sprinklers = 0.09cfs

Permit holder runs approximately 1,359 linear ft of 18mm of dripline along fruit trees averaging 50 psi

Flow = (13.59 gpm/dripline) x 0.0022 = 0.029 → 0.03 cfs

Permit Rate	0.15 cfs
B.U. Standard Allowance	0.03 cfs / ac x 3.1 ac = 0.09 cfs
Permit Fee (\$100)	0.0 – 0.20 cfs
Measured Rate	0.12 cfs
Recommended rate	0.09 cfs

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F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = (3.1 \text{ acres}) \times (4.5 \text{ af}) = 13.95 \text{ af} \rightarrow 14 \text{ af}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = (0.09) \times (255 \text{ days}) \times 1.9835 = 45.5 \text{ af}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 14 \text{ af}$$

G. NARRATIVE/REMARKS/COMMENTS

A field exam was conducted on 8/11/2022 by Senior Water Resource Agent Justin Shearer and Water Resource Agent Clint Lindow and accompanied by Mr. Brad E. Troxel. Ownership of the permit is the name of Brad E. Troxel and his wife Lorena L. Troxel. The application for permit was submitted on 7/18/2011 and proof of beneficial use was submitted on 3/25/2022. The permit holder does not hold any shares with Black Canyon Irrigation and the permit was developed as the primary source of irrigation.

The point of diversion (POD) location was confirmed at the ground water well head in SWSW QQ and are accurately described by the permit. The well located in the SWSW QQ uses an underground 2hp Franklin motor to deliver water underground, using 2.0" polyethylene. Water from the underground 2" polyethylene delivers water to k-line Sprinkler pod system and dripline. Water right overlap did not discover any other water rights associated with the ground water POD. No amendment is needed to correct the legal description of the POD.

The permit authorizes of 0.09 cfs for irrigation use with the SWSW Sec 35, T05N, R03W. Irrigation in the Northeast section in the SWSW QQ was underdeveloped and only evident on 1.9 acres. Irrigation of 3.1 acres in the SWSW QQ was verified. ArcMap tools and aerial imagery, supported by photos taken during the field exam, were used to verify the POU area. Although, the permit authorized 5.0 acres, the license recommendation for the POU 3.1 acres. No amendment is required to correct the legal description of the POU.

The POD Motor and pump are buried at unknown depths. Pump and motor information was provided by applicant. A theoretical was used to calculate the flow rate. The recommended flow rate for irrigation use is 0.09 cfs.

Condition 103 replaced condition 121 per department standards. Conditions R69 replaced condition R61 to reflect developed irrigation practices.

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Have conditions of permit approval been met? Yes No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	
IRRIGATION	03/01 to 11/15	0.09 CFS	

Totals: 0.09 CFS 14.0 AF

2. Recommended Amendments

_____ Change P.D. as reflected above _____ Add P.D. as reflected above X None

_____ Change P.U. as reflected above _____ Add P.U. as reflected above X None

I. AUTHENTICATION

Clint Lindow -

Field Examiner's Name Clint Lindow Date 1-24-2023

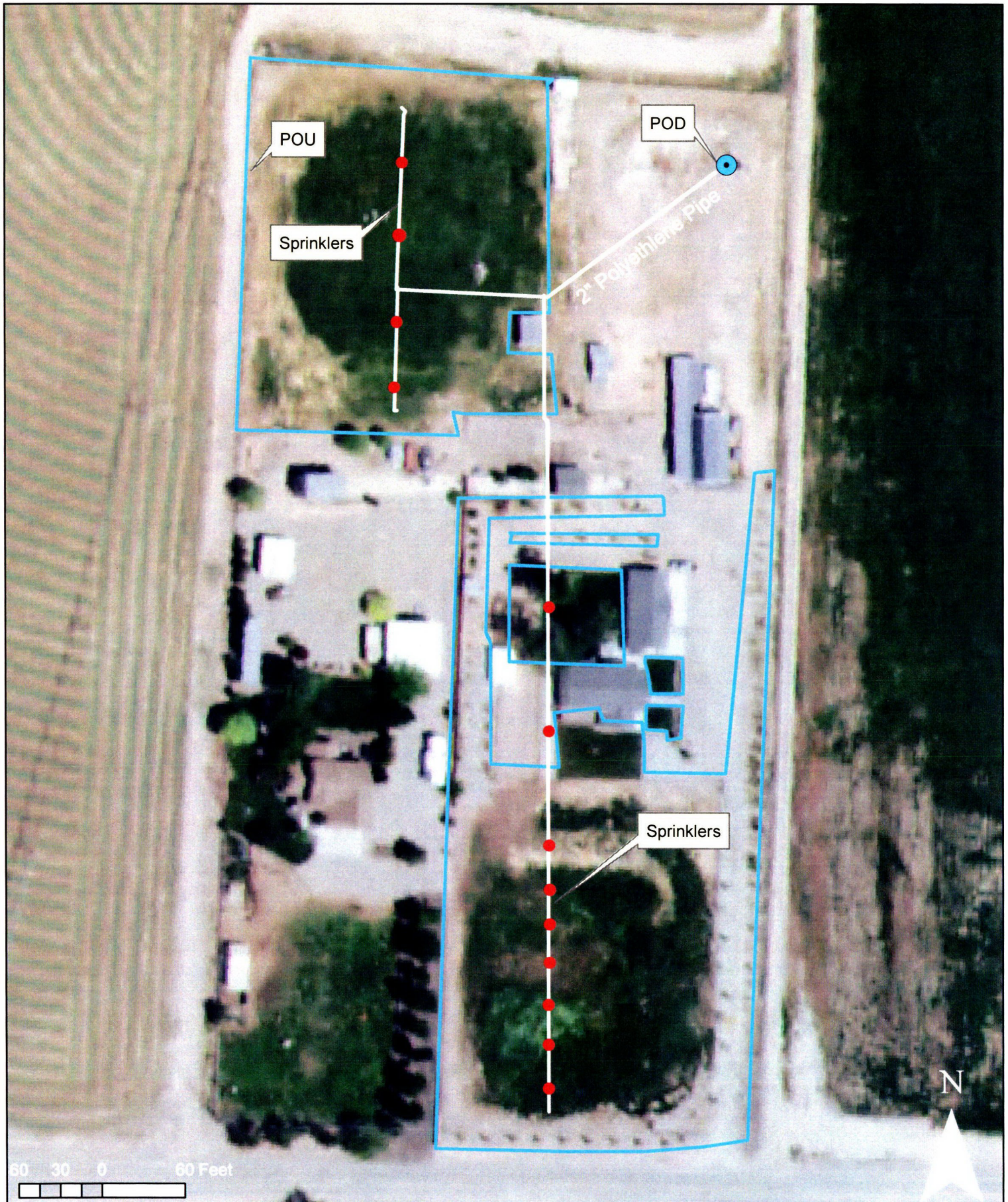
Reviewer [Signature] Date 1/24/2023

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DELIVERY SYSTEM DIAGRAM

Water Right No. 63-33545



Dripline Calculator

INPUT

Size of area to be watered

1359

sq. ft.

Identify soil type

Loam

Percent of Slope

0% - 4%

Application

Landscape Plantings

Select Initial Pressure

50 PSI

OUTPUT

Soil Type

Loam

Slope

0% - 4%

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Soil Infiltration Rate

0.44 - 0.88

in/hr

Application

Landscape Plantings

Emitter Flow Rate

0.6

GPH

Recommended Emitter Spacing

18

"

Recommended Lateral Spacing

14-20

"

Optional Emitter Spacing

12

Optional Lateral Spacing

Select lateral spacing to fit the dimensions of your area within the Recommend Lateral Spacing range above

12"

Precipitation Rate

0.96

in/hr

Run Time to apply 1/4" of water

16

min.

Total Zone Flow

13.59

GPM

Maximum lateral run length

508

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Coil Length

100'

	Agrifim SKU	Agrifim Description
Use this tube	SFCV-BR-6212-01S	12" Spacing, 100' coil '
Approximate Length of tubing required	1359	Dripline Flow per 100' of tubing
	ft.	
Number of rolls	14	60.00
		GPH
Number of staples required	340	1.00
		GPM
(Clay every 3', Loam every 4', Sand every 5')		

Also of Interest

[EZ-Flow Calculator](#)

[Flo-well Calculator](#)

[Drainage Calculator](#)

Connect with NDS

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[Privacy Policy](#)[Terms and Conditions](#)

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Naan 5022 Impact Sprinkler



The Naan 5022 comes with a red nozzle.

Other nozzles may be purchased separately.

- 1/2" Inlet
- Heavy duty plastic construction
- Excellent distribution uniformity at low pressure rates
- Stream straightener for extra coverage and wind resistance

in.	Nozzle Color	Pressure psi	Flow USgpm	Diameter feet
7/64"	Orange	30	2.04	65
		45	2.49	70
90" Stream Height 25° Sprinkler Angle		55	2.73	71
0.118"	Red	30	2.31	68
		45	2.85	71
90" Stream Height 25° Sprinkler Angle		55	3.12	75
1/8"	Green	30	2.58	71
		45	3.17	75
90" Stream Height 25° Sprinkler Angle		55	3.51	78
9/64"	Blue	30	2.99	71
		45	3.66	75
90" Stream Height 25° Sprinkler Angle		55	4.03	78
5/32"	Black	30	3.85	75
		45	4.66	78
90" Stream Height 25° Sprinkler Angle		55	5.11	81

Flow per Sprinkler Line										
Nozzle	PSI	Number of Pods per Line								
		6	7	8	9	10	11	12	13	
7/64"	35	13.1	15.4	17.7	20.0	22.5	24.9	27.3	29.6	
Orange	45	14.9	17.4	20.0	22.6	25.4	28.1	30.8	30.4	
0.118"	35	15.2	17.8	20.5	23.2	26.1	28.8	31.5	34.1	
Red	45	17.1	20.0	23.0	26.1	29.3	32.4	35.4	38.3	
1/8"	35	16.9	19.8	22.8	25.9	29.0	32.0	35.0	37.0	
Green	45	19.0	22.6	25.7	29.1	32.5	35.9	39.2	41.6	
9/64"	35	19.5	23.0	26.5	30.2	33.6	36.9	39.2	42.4	
Blue	45	22.1	26.0	30.0	34.1	38.0	41.7	44.2	47.9	
5/32"	35	25.2	29.8	34.5	38.7	42.7	47.6	51.5	55.6	
Black	45	28.4	33.5	38.7	43.4	48.0	53.4	57.8	62.4	

Precipitation Rate = Inches per 24 Hours										
Nozzle	PSI	Number of Pods per Line								
		6	7	8	9	10	11	12	13	
7/64"	35	2.02	2.03	2.04	2.06	2.07	2.09	2.10	2.10	
Orange	45	2.29	2.30	2.31	2.32	2.34	2.36	2.37	2.37	
0.118"	35	2.33	2.35	2.36	2.38	2.41	2.42	2.43	2.42	
Red	45	2.63	2.64	2.66	2.68	2.70	2.72	2.72	2.72	
1/8"	35	2.60	2.61	2.63	2.66	2.68	2.68	2.69	2.63	
Green	45	2.92	2.94	2.96	2.99	3.00	3.01	3.02	2.95	
9/64"	35	3.00	3.03	3.06	3.09	3.11	3.09	3.01	3.01	
Blue	45	3.40	3.43	3.46	3.49	3.51	3.50	3.40	3.40	
5/32"	35	3.88	3.93	3.97	3.96	3.94	3.99	3.96	3.94	
Black	45	4.36	4.41	4.46	4.45	4.43	4.48	4.44	4.43	

The Naan 5022
Is used in the
K-Line Pod System.

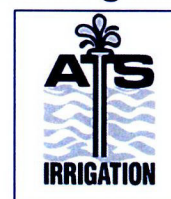


Dealer Info:

ATS Irrigation, Inc.
2509 Hwy 105
Brenham, TX 77833

1-800-656-2197

www.atsirrigation.com



Since 1985

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3.0 MM Plastic Nozzle



Fig. 1 – Location of one of two wells. Located in the SWSW QQ. View looking S.



Fig. 2 – Location of Well ID and buried pump. View looking S.

GPS'd at:

43° 43' 21.68" N

116° 40' 04.53" W

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Fig. 3 – Location of Well #2 in the
SESW QQ . View looking NE.

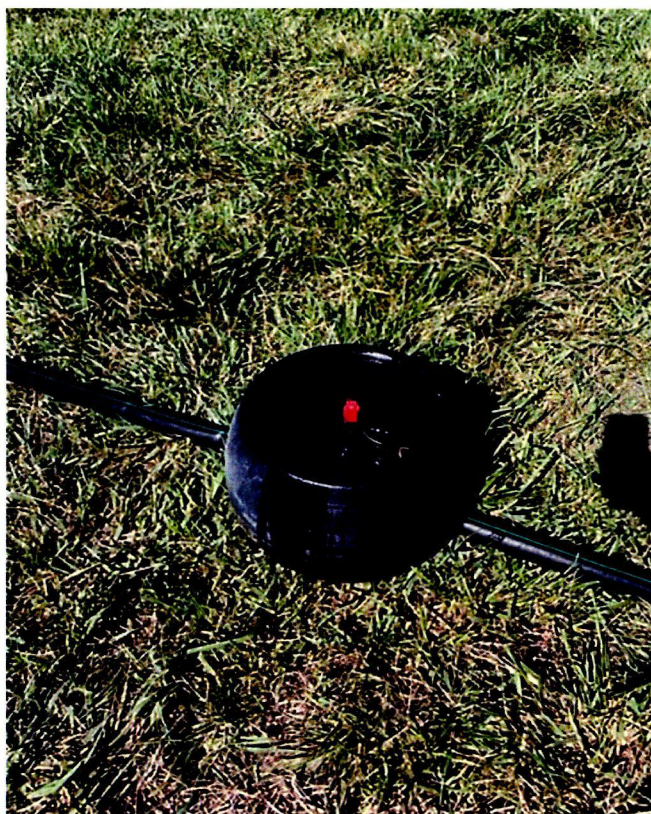


Fig. 4 – K-line pod impact
sprinkler irrigation system used
both in the Northern and
Southern POU.

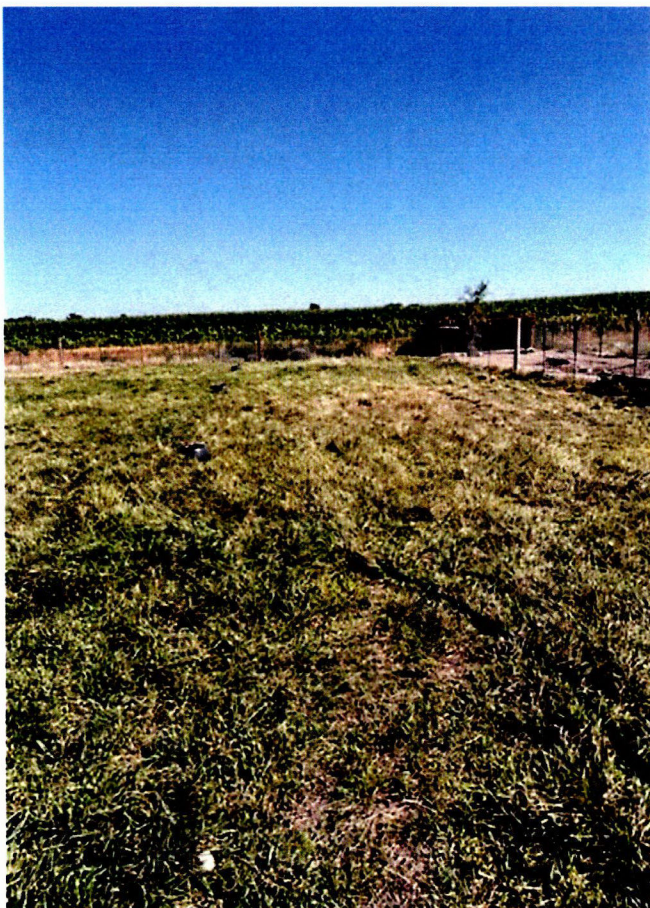


Fig. 5 - Irrigable acres in the Northern section SWSW QQ. View looking N.



Fig. 6 – Irrigated acres in the southern section within the SWSW QQ.

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Fig. 7 – Drip line irrigating 80 total Fruit trees throughout the POU. Fruit tree locations along the eastern and western section of .



Fig. 8 – More drip line irrigation in the SE area of the POU. View looking N.



Fig. 9 – More drip line irrigation in the NW area of the POU. View looking W.

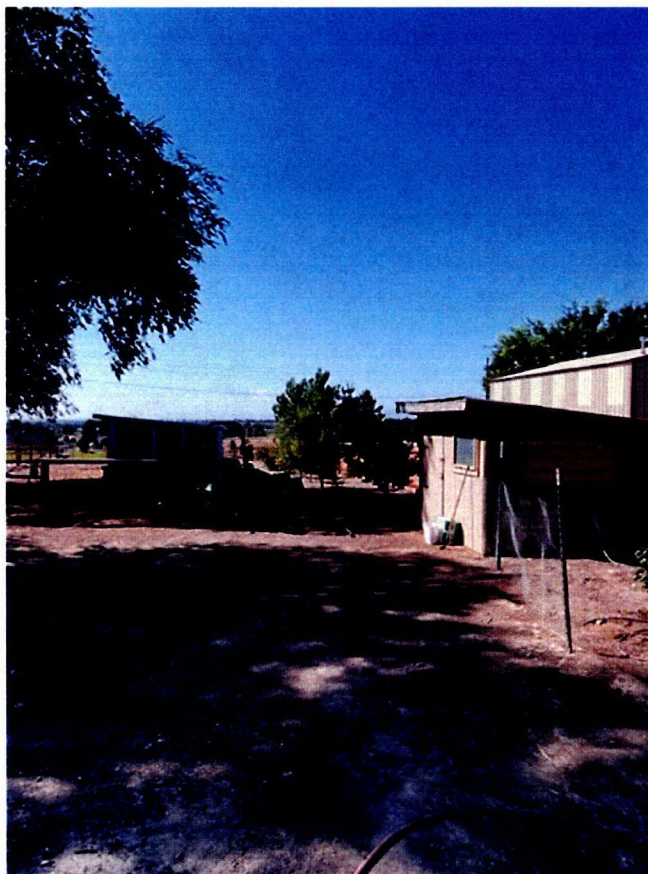


Fig. 10 – Drip line irrigation system components facing SW.



Fig. 11 – Lawn irrigation on the west side of the POU and house facing SE.



Fig. 12 – Lawn irrigation on the east side of the POU, directly front of the house facing SE.



Western Region • 2735 W Airport Way • Boise, ID 83705-5082

Phone: 208-334-2190 • Fax: 208-334-2348 • Email: westerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little

Director Gary Spackman

January 25, 2023

LORENA L TROXEL
PO BOX 878
MIDDLETON ID 83644-0878

BRAD E TROXEL
PO BOX 878
MIDDLETON ID 83644-0878

RE: License No. 63-33545

ISSUANCE OF LICENSE

Dear Water Right Holder(s):

The Department of Water Resources ("Department") has issued the enclosed Water Right License confirming that a water right has been established in accordance with your permit. Please be sure to thoroughly review all the conditions of approval listed on your license. The conditions may include ongoing requirements, such as maintenance of a measuring device or implementation of mitigation, as well as information about how your water use may be administered, such as regulation by a watermaster in a water district.

The license is a PRELIMINARY ORDER issued by the Department pursuant to Rule 730 of the Department's Rules of Procedure (IDAPA 37.01.01.730). It can and will become a final order without further action by the Department unless a party petitions for reconsideration, files exceptions, or requests a hearing as described in the enclosed information sheet.

Also, please note that water right owners are required to report any change of water right ownership and/or mailing address to the Department within 120 days of the change. Water right forms are available from any office of the Department or on the Department's website at idwr.idaho.gov

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JAN 31 2023

If you have any questions concerning the enclosed information, please contact me at (208) 605-4624.

Sincerely,



Scott Storms
Water Rights Supervisor

Enclosure(s)

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JAN 31 2023

CERTIFICATE OF SERVICE

I hereby certify that on January 25, 2023, I served a true and correct copy of Water Right License No. 63-33545 by U.S. Mail, postage prepaid, to the following:

LORENA L TROXEL (Current Owner)
PO BOX 878
MIDDLETON ID 83644-0878

BRAD E TROXEL (Current Owner)
PO BOX 878
MIDDLETON ID 83644-0878



Scott Storms
Water Rights Supervisor

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EXPLANATORY INFORMATION TO ACCOMPANY A PRELIMINARY ORDER

(To be used in connection with actions when a hearing was **not** held)

(Required by Rule of Procedure 730.02)

The accompanying order or approved document is a "**Preliminary Order**" issued by the department pursuant to section 67-5243, Idaho Code. **It can and will become a final order without further action of the Department of Water Resources ("department") unless a party petitions for reconsideration, files an exception and brief, or requests a hearing as further described below:**

PETITION FOR RECONSIDERATION

Any party may file a petition for reconsideration of a preliminary order with the department within fourteen (14) days of the service date of this order. **Note: the petition must be received by the department within this fourteen (14) day period.** The department will act on a petition for reconsideration within twenty-one (21) days of its receipt, or the petition will be considered denied by operation of law. See Section 67-5243(3) Idaho Code.

EXCEPTIONS AND BRIEFS

Within fourteen (14) days after: (a) the service date of a preliminary order, (b) the service date of a denial of a petition for reconsideration from this preliminary order, or (c) the failure within twenty-one (21) days to grant or deny a petition for reconsideration from this preliminary order, any party may in writing support or take exceptions to any part of a preliminary order and may file briefs in support of the party's position on any issue in the proceeding with the Director. Otherwise, this preliminary order will become a final order of the agency.

REQUEST FOR HEARING

Unless a right to a hearing before the Department or the Water Resource Board is otherwise provided by statute, any person aggrieved by any final decision, determination, order or action of the Director of the Department and who has not previously been afforded an opportunity for a hearing on the matter may request a hearing pursuant to section 42-1701A(3), Idaho Code. A written petition contesting the action of the Director and requesting a hearing shall be filed within fifteen (15) days after receipt of the denial or conditional approval.

ORAL ARGUMENT

If the Director grants a petition to review the preliminary order, the Director shall allow all parties an opportunity to file briefs in support of or taking exceptions to the preliminary order and may schedule oral argument in the matter before issuing a final order. If oral arguments are to be heard, the Director will within a reasonable time period notify each party of the place, date and hour for the argument of the case. Unless the Director orders otherwise, all oral arguments will be heard in Boise, Idaho.

CERTIFICATE OF SERVICE

All exceptions, briefs, requests for oral argument and any other matters filed with the Director in connection with the preliminary order shall be served on all other parties to the proceedings in accordance with IDAPA Rules 37.01.01302 and 37.01.01303 (Rules of Procedure 302 and 303).

FINAL ORDER

The Director will issue a final order within fifty-six (56) days of receipt of the written briefs, oral argument or response to briefs, whichever is later, unless waived by the parties or for good cause shown. The Director may remand the matter for further evidentiary hearings if further factual development of the record is necessary before issuing a final order. The department will serve a copy of the final order on all parties of record.

Section 67-5246(5), Idaho Code, provides as follows:

Unless a different date is stated in a final order, the order is effective fourteen (14) days after its service date if a party has not filed a petition for reconsideration. If a party has filed a petition for reconsideration with the agency head, the final order becomes effective when:

- (a) The petition for reconsideration is disposed of; or
- (b) The petition is deemed denied because the agency head did not dispose of the petition within twenty-one (21) days.

APPEAL OF FINAL ORDER TO DISTRICT COURT

Pursuant to sections 67-5270 and 67-5272, Idaho Code, if this preliminary order becomes final, any party aggrieved by the final order or orders previously issued in this case may appeal the final order and all previously issued orders in this case to district court by filing a petition in the district court of the county in which:

- i. A hearing was held,
- ii. The final agency action was taken,
- iii. The party seeking review of the order resides, or
- iv. The real property or personal property that was the subject of the agency action is located.

The appeal must be filed within twenty-eight (28) days of this preliminary order becoming final. See section 67-5273, Idaho Code. The filing of an appeal to district court does not itself stay the effectiveness or enforcement of the order under appeal.

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IDAHO DEPARTMENT
WATER RESOURCES

Western Region • 2735 W Airport Way • Boise, ID 83705-5082

Phone: 208-334-2190 • Fax: 208-334-2348 • Email: westerninfo@idwr.idaho.gov • Web: idwr.idaho.gov

Governor Brad Little

Director Gary Spackman

July 15, 2022

Brad and Lorena Troxel
PO Box 878
Middleton, Idaho 83644-0878

COPY

RE: Scheduling Field Exam for Water Right Permit No. 63-33545

Dear Permit Holder (Brad and Lorena Troxel):

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use to issue a water right license.

The above-referenced permit authorizes **0.150 CFS of ground water for irrigation use**. **If you have developed a beneficial use of water and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued, and the permit should be relinquished. If that use was developed but you have ceased using the water and currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

If you developed a beneficial use of water under the permit but no longer own the place of use property identified in the permit, please submit the enclosed Assignment of Permit form with the applicable \$25 processing fee.

Please contact me within the next thirty (30) days at (208) 605-4630 to either schedule an examination or submit a relinquishment or assignment form. If you no longer own the place of use property and/or do not respond to this letter, the department will work with the current property owner to issue a license or void the permit.

Sincerely,

Clint Lindow
Water Resource Agent

Enclosure: Relinquishment of Permit Form
Notice of Change of Water Right Ownership Form
Proof Report and Map

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