60 DAYS TO LOCATE*

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 JUN 27 2024 KS Dept. of Agriculturestate of Kansas

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

		File Number	: 51257 the Division of Water Resources staff.	
		This item to be completed by	the Division of Water Resources stall.	
1.	Name of Applicant: Shawn Ne	eises		
	Address: 380 5E.	70th 5th		
			State: KS Zip	Code: 67668
	Phone: (620) 491 -	- 1360	Email: Shawn.Neises@yahoo.com	n
2.	The source of water is:	surface water in		
		groundwater in Chika	(strear	n)
		groundwater in orma	(drainage	pasin)
	1		~ 90/	
3.	The maximum annual quantit	y of water desired is	3 15	acre-feet gallon
	to be diverted at a maximum	rate of	gpm	tural flows 🔲 natural evaporat
	☐ This project involves surfa	ce water storage and re	ediversion. The maximum annu	al quantity of water desired to
	rediverted is	acre-feet	gallons, at a rate of	gpm 🗆 c.
		Convo	rsion Factors	
			F) = 325,851 gallons	
	1 oub		ng) = 3.07 acre-feet (AF) .) = 448.8 gallons per minute (g	
INAD			a priority date and file number	경기적으로 가는 그 사람들이 되었다.
			er under that priority number ca	
		rate of diversion and ma	eximum annual quantity of wate	r are appropriate and reasona
ioi j	your proposed project.			
4.	The water is intended to be a	ppropriated for the follow	wing use(s):	
	☐ Artificial Recharge*	■ Irrigation*	☐ Recreational*	☐ Water Power*
	☐ Industrial*	☐ Municipal*	☐ Stockwatering*	☐ Sediment Control
	☐ Domestic	□ Dewatering	☐ Hydraulic Dredging	☐ Fire Protection
	☐ Thermal Exchange	☐ Contamination R	emediation	
			form providing information to s	substantiate your request for
	quantity of water listed in Iten	n No. 3 for the intended	use(s) referenced above.	

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	6/27/2024
60 DTL	KJN

JUN 27 2024

File No.			

The location(s) of the proposed diversion work(s) (well, pullipsite, 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 NE quarter of Section 15 , more particularly described as being near a point 3960 feet North and 1320 feet West of the Southeast corner of said section, in Township 29 South, Range 10 DE W, Kingman 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
(C	TownshipSouth, Range \[\] \[\] \[\] \[\] \[\] \\ \] 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 \[\] \
(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 DE DW, County, KS. A.K.A:
(E	One in thequarter of thequarter of thequarter of Section, more particularly described as being near a point feet North and feet West of the Southeast corner of said section, in TownshipSouth, Range DE DW, County, KS. A.K.A:
	ne proposed project for diversion of water will consist of one (1) well (number of wells, pumps, dams, etc.) Individual was/will be completed on or by the following date: (date each was or will be completed)
. Th	ne first actual application of water for the proposed beneficial use was or is estimated to be(Date)
di	st any application, appropriation of water, water right, or vested right file number that covers the same point(s) of version or any of the same place of use described in this application. Also list any other recent modifications made existing permits or water rights in conjunction with the filing of this application.
V	VILL BE A 60 DAYS TO LOCATE APPLICATION

	WATER RESOURCES RECEIVED						
	JUN 2 7 2024 File No						
9.	Will pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works?						
	Yes FNo If yes, a check valve shall be required. All chemigation safety requirements must be met including a chemigation permit and reporting requirements.						
10.	If you are planning to impound water, please contact DWR prior to submitting this application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir.						
	Have you made an application for a permit for construction of this dam and reservoir with DWR?						
	If yes, write the Water Structures permit number here: not applicable						
11.	Furnish a detailed topographic or aerial map that depicts the following information:						
	The application <u>must</u> be supplemented by a topographic map, aerial photograph or a detailed plat showing the information described in A-D below.						
	(A) The center of the section, the section lines or the section corners, and labels showing the appropriate section, township and range numbers, as well as a north arrow and scale,						
(B) The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other described in Item No. 5 of the application, showing the North-South distance and the East-West section line or southeast corner of section,							
	(C) The location of the proposed place of use identified by crosshatching,						
	(D) For Groundwater Use, the location of any existing water wells of any kind within ½ mile of the proposed well or wells and indicate for each well its type of use and the name and mailing address of the property owner or owners, (If there are no wells within ½ mile, please indicate that on the map.)						
	For Surface Water Use, the names and addresses of the landowner(s) ½ mile downstream and ½ mile upstream from your property lines, and						
	(E) The locations of proposed or existing dams, dikes, reservoirs, canals, pipelines, power houses, and any other structures for the purpose of storing, conveying, or using water.						
12.	For groundwater use, furnish copies of the driller's logs for all test holes or completed wells. Please ensure that the driller's logs provide depth to the static water level. If driller's logs cannot be obtained for an existing well, provide the following information:						
	Well location as shown in Item No. 5 (A) (B) (C) (D) (E)						
	Date drilled						
	Total depth of well						

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

Depth to static water level

14. The owner(s) of the property where the wat	ter is use	d, if other t	nant the	applica	nt, is:			
14. The owner(s) of the property where the wat ToN ▼ ANGELA McD	ONA	D 3	08	13+4	Aue	Med	lici	NE
	(name, a	address, and	phone)			LOD	GE	KS
		620)	150	-71	71			104
	(name, a	address, and	phone)		and the second			
15. The relationship of the applicant to the prop	osed pla	ace where th	ne wate	will be	used is t	hat of:		
□Owner □Agent ☑Tenant	Other	r:						
16. A water use correspondent (WUC) must be must be filed with the Division by March 1 the owner(s) to a civil fine of up to \$1,000 a application, I verify that the owner(s) of the should be designated as the WUC:	of each y and poter ie water	year. Failure ntial suspen right or per	e to time sion of mit have	ely file a the wate e confir	n accura er approp med that	te water or oriation or the follow	use reporting the right. It wing performance is the right of the right	ort will subje By signing the erson or age
SHAWN NEISES 3	380	SE 7 address, and	0th.	5+.	KII	UGMA	-2	KS
	(name, a	address, and	phone)	(6	(05	491-	136	٥
a Water Reservation Right upstream of a fer necessary to prevent impairment. I declare, under penalty of perjury, that I happlication from the landowner or th	ave lega owner's a	I access to authorized referred forth above	or contrepresent	rol of, th tative. to the	e point(s	s) of diver	sion de	scribed in th
Shan I							6/	9/24
(Applicant Signature)				"	<u>, en</u>	(Da	ite)	/
Shawn Neises								
(Applicant Name – please print)								
(A-li-ATH- Fa-liable slave sinh)								
(Applicant Title, if applicable – please print)								
KJN	М	anhatta	n HQ			6/4/24	1	
Assisted by			ce/title)	-	Date:			

IRRIGATION USE SUPPLEMENTAL SHEET

WATER RESOURCES RECEIVED

JUN 27 2024

																K	S De	ept. of	Agricult
			Nar	ne of	Appli	cant ((Pleas	se Prin	nt): 5	Sha	wn l	Veis	es						
I	Please lesign	supp ate th	ly the	e nam	e and	addı	ress o	f eac	h lanc	lowne	er, the	legal	desc	cription act or	n of fracti	the la onal p	nds to	o be ir n there	rrigated, areof:
and	lowne	er of 1	Recor	d :	NAM	E:	PN	166	1	7 ta	Jo,	ل ا	Mc	Do	م به	+CD	10	266	AS A
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S	Т	R	NE	NW	sw	SE	NE	NW	sw	SE	NE	NW	SW	SE	NE	NW	SW	SE	IOIAL
_	1																		

2.	Ple	ase complete the following information for the description of the operation for the irrigation project. Attach oplemental sheets as needed. JUN 27 2024
	a.	Indicate the soils in the field(s) and their intake rates:
		Soil Percent Intake KSI Trigation of Agricultur Name of field Rate Design
		Shellabarger 56 3-62 4470 (in/hr) Group CIARKE U 1-32 3270 .5 5
		FIBION SL 6-152 20% 2.0 11 Shelleberger 1-3% 4% 1.0 7
		Total: 100 %
	b.	Estimate the average land slope in the field(s): $\frac{4-5}{\%}$
		Estimate the maximum land slope in the field(s):
	c.	Type of irrigation system you propose to use (check one):
		Center pivot Center pivot - LEPA "Big gun" sprinkler Gravity system (furrows) Gravity system (borders) Sideroll sprinkler
		Other, please describe:
	d.	System design features:
		i. Describe how you will control tailwater:
		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: $WHGAT+FEED$
	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).
	C R	WILL IRRIGATE ACCORDING TO
	h	PATER THERE IS.
Va	n mo	av attach any additional information you believe will assist in informing the Division of the need for your

request.

Page 2 of 2

Soils Map and Report

Client(s): ANGELA J MCDONALD Kingman County, Kansas Assisted By: ANDREW KOSTNER NRCS KINGMAN SERVICE CENTER KINGMAN COUNTY CD

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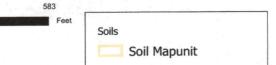
Date: 6/20/2024

JUN 27 2024

KS Dept. of Agriculture

Land Units: Tract 10890, Fields 4









2.	Pl	ease comple pplemental s	te the following informat sheets as needed.	tion for the description	of the operation for the	irrigation project. Attach	
	0	Indicate th	he soils in the field(s) and	their intoke rates		JUN 1	2 7 2024
	a.		Soil Name	Percent of field	Intake	Irrigation ept. o	of Agriculture
			Name	(%)	Rate (in/hr)	Design Group	
		54, 1/41	burger SL 3-6%	442	1.0	7	
		-	CL 1-32	37%	. 5	3	
		- Charles and the Control of the Con	SL 6-152	209	2.0	11	
		and the course Office account would be a re-	SL 1-33	43	1.0	7	
			Total:	100 %			
	b.	Estimate t	he average land slope in	the field(s):	4-5 %		
			he maximum land slope i		10 %		
	C.	Type of in	rigation system you propo	ose to use (check one)			
		C	Center pivot	Center pix	ot - LEPA	"Big gun" sprinkler	
			Gravity system (furrows)			Sideroll sprinkler	
		Other, ple	ase describe:				
	d.	System de	sign features.				
		i. Desc	ribe how you will contro	l tailwater			
		ii. For s	sprinkler systems:				
		(1)	Estimate the operating	g pressure at the distrib	ution system:	psi	
		(2)	What is the sprinkler p	package design rate?	gpm		
		(2)	What is the wated dis				
		(3)	what is the welled dia	meter (twice the distai	ice the sprinkler throws	s water) of a sprinkler on	
			the outer 100 feet of the	he system?	feet		
		(4)	Please include a copy	of the sprinkler packag	ge design information		
	e.	Crop(s) yo	u intend to irrigate. Pleas	se note any planned cre	op rotations.		
	ſ.	Please desc	cribe how you will determ	nine when to irrigate a	nd how much water to	annly (narticularly	
	***	important i	if you do not plan a full in	rrigation).	To the major to to	-bb-1 (baravarari)	

Map Unit Description (Brief, Generated)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, provide information on the composition of map units and properties of their components.

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A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

Additional information about the map units described in this report is available in other Soil Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description (Brief, Generated)

Kingman County, Kansas

Map Unit: 5856--Albion sandy loam, 6 to 15 percent slopes

Component: Albion (90%)

The Albion component makes up 90 percent of the map unit. Slopes are 6 to 15 percent. This component is on paleoterraces on river valleys. The parent material consists of alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is high. Available water to a depth of 60 inches (or restricted depth) is low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R079XY122KS Sandy Loam ecological site. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Clark (4%)

Generated brief soil descriptions are created for major soil components. The Clark soil is a minor component.

Component: Lincoln (3%)

Generated brief soil descriptions are created for major soil components. The Lincoln soil is a minor component.

Component: Farnum (2%)

Generated brief soil descriptions are created for major soil components. The Farnum soil is a minor component.

Component: Carbika (1%)

Generated brief soil descriptions are created for major soil components. The Carbika soil is a minor component.

Map Unit: 5873--Clark clay loam, 1 to 3 percent slopes JUN 2 7 2024

Component: Clark (70%)

The Clark component makes up 70 percent of the map unit. Slopes are 1 to 3 percent. This component gs on ture paleoterraces on river valleys. The parent material consists of alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is high. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R079XY112KS Limy Plains ecological site. Nonirrigated land capability classification is 3e. Irrigated land capability classification is 3e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 40 percent. There are no saline horizons within 30 inches of the soil surface. The soil has a maximum sodium adsorption ratio of 1 within 30 inches of the soil surface.

Component: Naron (8%)

Generated brief soil descriptions are created for major soil components. The Naron soil is a minor component.

Component: Geary (7%)

Generated brief soil descriptions are created for major soil components. The Geary soil is a minor component.

Component: Case (7%)

Generated brief soil descriptions are created for major soil components. The Case soil is a minor component.

Component: Ost (5%)

Generated brief soil descriptions are created for major soil components. The Ost soil is a minor component.

Component: Farnum (2%)

Generated brief soil descriptions are created for major soil components. The Farnum soil is a minor component.

Component: Aquolls, occasionally ponded (1%)

Generated brief soil descriptions are created for major soil components. The Aquolls, occasionally ponded soil is a minor component.

Map Unit: 5956--Shellabarger sandy loam, 1 to 3 percent slopes

Component: Shellabarger (85%)

The Shellabarger component makes up 85 percent of the map unit. Slopes are 1 to 3 percent. This component is on paleoterraces on river valleys. The parent material consists of alluvium. Depth to a root restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 1 percent. This component is in the R079XY122KS Sandy Loam ecological site. Nonirrigated land capability classification is 2e. Irrigated land capability classification is 2e. This soil does not meet hydric criteria. There are no saline horizons within 30 inches of the soil surface.

Component: Albion (5%)

Generated brief soil descriptions are created for major soil components. The Albion soil is a minor component.

Component: Nalim (5%)

Generated brief soil descriptions are created for major soil components. The Nalim soil is a minor component.

Component: Pratt (4%)

Generated brief soil descriptions are created for major soil components. The Pratt soil is a minor component.

Component: Carbika (1%)

Generated brief soil descriptions are created for major soil components. The Carbika soil is a minor component.

Map Unit: 5957--Shellabarger sandy loam, 3 to 6 percent slopes

Component: Shellabarger, moderately eroded (99%)

The Shellabarger, moderately eroded component makes up 99 percent of the map unit. Slopes are 3 to 7 percent. This component is on paleoterraces on river valleys. The parent material consists of loamy alluvium. Depth to a root

restrictive layer is greater than 60 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is moderate. Shrinkswell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 2 percent. This component is in the R079XY122KS Sandy Loam ecological site. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria. The calcium carbonate equivalent within 40 inches, typically, does not exceed 3 percent.

Component: Aquolls (1%)

Generated brief soil descriptions are created for major soil components. The Aquolls soil is a minor component.

Data Source Information

Soil Survey Area: Kingman County, Kansas Survey Area Data: Version 19, Sep 12, 2023 WATER RESOURCES RECEIVED

JUN 27 2024

Soils Inventory Report

Tract	Land Unit	Map Unit Symbol	Map Unit Name	Acres	Percent
10890	1	5856	Albion sandy loam, 6 to 15 percent slopes	12.9	20%
10890 1 5873		5873	Clark clay loam, 1 to 3 percent slopes	20.6	32%
10890 1 5956		5956	Shellabarger sandy loam, 1 to 3 percent slopes	2.6	4%
10890	1	5957	Shellabarger sandy loam, 3 to 6 percent slopes	28.7	44%

Total 64.8 100%

Grand Total 64.8 100%

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Lindsay Manufacturing Co.

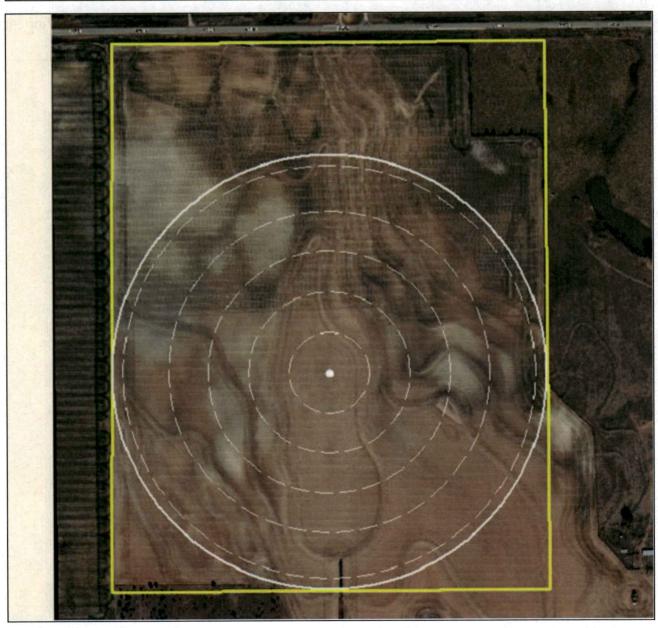


2707 North 108th Street Omaha, NE 68164 800 - 829 - 5300 office WATER RESOURCES RECEIVED

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Farm:	Shorty	
Grower:	Shawn Neisis	6/20/2024

Systems:	Length	Spans	Total area including endgun
O Pivot 3	964.08 ft	5 spans + 44 ft o.h.	67.03 acres



Pivot 3

Pivot Area:

67.03 acres

System Length:

964.08 ft

Endgun Area:

0.00 acres

of Spans:

5 + overhang

Total Area:

67.03 acres

Deg. of Sweep:

360.0°

Endgun Throw: 0.0 ft

Color on map:

Spans

# of Spans: 5	Span 1 (180.2)	Span 2 (359.1)	Span 3 (538.0)	Span 4 (716.9)	Span 5 (917.1)	Overhang (964.1)
Length:	179	179	179	179	201	44 ft
Pipe Size:	6 - 5/8"	6 - 5/8"	6 - 5/8"	6 - 5/8"	6 - 5/8"	5 - 9/16"

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JUN 27 2024

KS Dept. of Agriculture

Endgun Areas

This system does not have an endgun.

JUN 27 2024



Lindsay Manufacturing Co. Omaha, NE 800-829-5300 office

Senninger

96 Agri Sales, Inc. 316.661.2281

Mt Hope, KS

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JUN 2 7 2024

Dealer:

96 Agri Sales Inc

Mt Hope, KS

Customer:

Shawn Nesis

Shorty

Printout No:

Nesis, Shawn, Shorty, 600 GPM IWOB



** Specify Senninger UP3 Nozzles when ordering **

Senninger Irrigation INC. Clermont, FL U.S.A. Date: 06/20/2024

10400 N 247th St W

Mt Hope, KS 67108

316.661.2281

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jason.wood@96agrisales.com

JUN 27 2024

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Page 2

Chart Design by Jason Wood
Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB

Dealer:

Customer:

Comments:

96 Agri Sales Inc Mt Hope, KS

Date: 06/20/2024

Shawn Nesis Shorty 600GPM

Pipes Elevation Machine C Factor: 140 Mfg: 919.6 ft, 6.39 inch ID Lindsay Pipe 1: Difference above(+) pivot 10.00 Flow: 600.00 gpm Pipe 2: 44.9 ft, 5.37 inch ID Difference below(-) pivot 40.00 Pivot Pressure: 33.51 psi Elevation Rise included in calculations 38.07 psi **Base Press** 25.00 psi End Pressure: Spacing: Span dependent Sprinklers Regs 964.47 ft Length: GPM / Acre: 8.91 gpm Position: Bottom Average Drop: 10.0 ft IWob2 UP3 128 PSR-10 End Gun: No (128)Low Ang 9 Spans #5

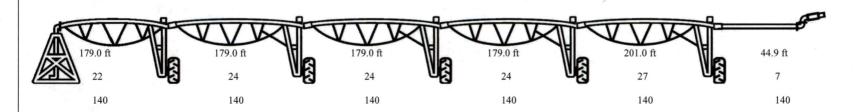
1.00

33.51 psi

6.39

Gauge 25.00 psi

5.37



38.07 psi

10400 N 247th St W

Mt Hope, KS 67108

316.661.2281

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jason.wood@96agrisales.com

JUN 27 2024

Chart Design by Jason Wood

KS Dept. of Agriculture

Date: 06/20/2024

Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB

Page 3

WARRANTY

WATER APPLICATION UNIFORMITY OBTAINED WITH THIS SYSTEM CAN BE ADVERSELY AFFECTED BY MANY VARIABLES INCLUDING THE IMPROPER MAKEUP OR INSTALLATION OF THE SPRINKLER OR SPRAY NOZZLE PACKAGE, OBSTRUCTED NOZZLES, MAINTAINING INCORRECT PIVOT PRESSURE, UNFAVORABLE CLIMATE CONDITIONS, TIGHT AND/OR SLOPING SOILS, IMPROPER END GUN ARC SETTINGS, ERRATIC AND IMPROPER OPERATING SPEED OF THE SYSTEM, AND AS WELL AS INHERENT VARIABLES IN THE MANY COMPONENTS COMPRISING THE SYSTEM. THEREFORE, SENNINGER IRRIGATION INC. MAKES NO WARRANTY AS TO THE UNIFORMITY OF COVERAGE OBTAINED FROM THIS WATER APPLICATION PRINTOUT OTHER THAN ITS MATHEMATICAL ACCURACY.

PRODUCTS MANUFACTURED BY SENNINGER IRRIGATION INC. THAT ARE SPECIFIED ON THIS SYSTEM ARE COVERED UNDER THE PRINTED "LIMITED WARRANTY" OF EACH INDIVIDUAL ITEM.

IT IS THE RESPONSIBILITY OF THE END USER TO DETERMINE IF ANY INCOMPATABILITY EXISTS BETWEEN THE WATER DISTRIBUTION DEVICES AND THE CROP, THE SOIL, AND THE PHYSICAL STRUCTURE OF THE MECHANICAL MOVE SYSTEM. SENNINGER IRRIGATION THEREFORE DISCLAIMS ANY LIABILITY FOR DAMAGES DUE TO FAILURE OF THE SYSTEM TO PERFORM AS CONTEMPLATED.

ALL FIGURES PRESENTED ON THIS COMPUTER PRINTOUT ARE BASED ON THE FOLLOWING...

- 1. INFORMATION PROVIDED TO SENNINGER IRRIGATION, INC. CONCERNING PIPE LENGTH, DIAMETER, SURFACE FINISH AND OUTLET SPACINGS, PLUS WATER FLOW AND PRESSURE, PLUS ALL OTHER APPLICABLE DATA IS CORRECT.
- 2. THERE IS 100% WATER APPLICATION EFFICIENCY (ZERO WIND VELOCITY & NO EVAPORATION)
- 3. ALL BOW STRING AND WARREN TRUSS TYPE SPANS (EXCEPT THE LAST) ARE CONSIDERED TO END AT THE CENTER OF THE FLEXIBLE COUPLING. THE LAST SPAN IS CONSIDERED TO END AFTER THE "TOWER TOP" OR "END BOOM TRANSITION PIECE" FLANGE. CABLE SUPPORTED SPANS ARE CONSIDERED TO END AT THE CENTER OF THE TOWER.
- 4. PIVOT PRESSURE IS MEASURED UP ON THE MAIN HORIZONTAL DISTRIBUTION PIPE JUST AFTER THE LAST ELBOW.
- 5. PIVOT PRESSURE HAS BEEN DETERMINED IN CONSIDERATION OF A MAXIMUM FIELD ELEVATION RISE AND FALL FROM THE PIVOT POINT AS SHOWN ON PAGE ONE, WITH THESE ELEVATIONS OCCURING AT THE END OF THE SYSTEM.
- 6. SPRINKLER OR SPRAY NOZZLE BASE PRESSURE MAY BE LESS THAN MAIN LINE PIPE PRESSURE DUE TO THE USE OF PRESSURE REGULATORS, WITH FLOW VS. FRICTION LOSS THROUGH EACH REGULATOR CONSIDERED. WHERE DROP PIPES ARE USED THE STATIC HEAD IS ADDED TO THE MAIN PIPE PRESSURE TO DETERMINE SPRAY NOZZLE INLET PRESSURE.

10400 N 247th St W

Mt Hope, KS 67108

316.661.2281

WATER RESOURCES
RECEIVED

jason.wood@96agrisales.com

JUN 27 2024

Chart Design by Jason Wood

KS Dept. of Agriculture

Date: 06/20/2024

Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB

Page 4

CAUTIONS

WHEN IRRIGATING WITH SENNINGER I-WOBS, USE STANDARD INTEGRAL WEIGHTS OR THREADED PLASTIC OR GALVANIZED DROP WEIGHT ONLY, DO NOT USE SLIP OVER DROP WEIGHTS.

SENNINGER IRRIGATION RECOMMENDS SPACING I-WOBS NO MORE THAN 18 FEET APART WHEN INSTALLED ON DROP PIPES!

SENNINGER I-WOBS ARE DESIGNED TO OPERATE AT 10-20 PSI. THE USE OF I-WOBS AT PRESSURES GREATER THAN 25 PSI VOIDS PRODUCT WARRANTY!

WHEN IRRIGATING WITH I-WOBS, DO NOT EXCEED 18 FOOT SPRINKLER SPACING PAST 2 SPANS WHEN CROP INTERFERENCE CAN PROHIBIT I-WOBS DESIGN DISTRIBUTION!

I-Wob Sprinklers require at least 24" of drop hose. Do not use slip weights. Do not install integrated weights on drop with double I-Wob. Inadequate crop clearence and/or structural interference may cause poor water distribution, resulting in decreased uniformity and possibly streaking.

This package was plugged with the recommended minimum ground clearance and above the crop canopy.

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Chart Design by Jason Wood

S Dept. of Agriculture

Date: 06/20/2024

Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB

Page 5

Dealer:

Customer:

Comments:

96 Agri Sales Inc Mt Hope, KS Shawn Nesis Shorty 600GPM

Precipitation		Circl	le Degree 360	
Delivered Flow:	601.97 gpm	Average Depth	<u>Timer</u>	Rotation
		0.15 inch	100.00%	7.7hrs
Pivot Pressure:	33.51 psi	0.20 inch	75.81%	10.2hrs
Length:	964.47 ft	0.30 inch	50.54%	15.2hrs
Area:	67.31 acre	0.40 inch	37.90%	20.3hrs
Distance to last tower:	919.60 ft	0.50 inch	30.32%	25.4hrs
Speed of last tower:	12.51 ft	0.60 inch	25.27%	30.5hrs
Precip. / Acre: (360)	8.91 gpm	0.70 inch	21.66%	35.5hrs
Time for coverage:	7.70Hrs	0.80 inch	18.95%	40.6hrs
Tire Size	11.2 x 38	0.90 inch	16.85%	45.7hrs
Motor loaded speed (RPM	1725	1.00 inch	15.16%	50.8hrs
Center gear box reduction	(RATIO) 40:1	1.25 inch	12.13%	63.5hrs
Wheel gear box reduction	(RATIO) 50:1	1.50 inch	10.11%	76.2hrs
		2.00 inch	7.58%	101.5hrs
		2.50 inch	6.06%	126.9hrs
Caution**This chart is an estimate of for your irrigation system. Tire inflat		0.24 inch	64.15%	12 hrs
soil conditions, flow fluctuations and cause application and time deviations should be used as a guide and used w	other conditions can a. The info above	0.47 inch	32.08%	24 hrs

Date: 06/20		ATION		Cha	rt No: Nesis		iorty, 600 C	JEM IMOE		HARDWARE D	ESCRIPTION	Page 6 Goose Necl
		ATION		OUTLET	ACTUAL		SPR.	DROP	PRESS	SENNINGER	NOZZ SI	
OUTLET	LAST OUTLET (FT)	CE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	BASE PRESS (PSI)	LENGTH		SPRINKLER MODEL&PAD/Weigh	(64TH IN	NCH) Sg=125°Sg
Pivot -	Gauge			1			1 1 5				WATER RESOL	IDOES
1-Plg			3.4								RECEIVE	
2-Plg			5.5								KLOLIVL	
3-Plg			7.8								JUN 27 2	024
4-Plg			10.3								3011 21 2	.02 1
5-Plg			12.8								KS Dont of Asse	Sec. 16
6-Plg			15.3								KS Dept. of Agr	iculture
7-Plg			17.7									
8-Plg			20.2									
9		22.59	22.6	0.21	0.85	33.23	11.42	104	PSR-10	IWob UP3-2 Low	Ang 9 1 6-1	GOLD 1 G
10-Plg		22.00	25.0	0.21	0.00	00.20			101. 10	2	9	
11-Plq			27.5									
	7.34	29.93	29.9	0.28	0.85	33 14	11.41	107	PSR-10	IWob UP3-2 Low	Ang 9 1 6-0	GOLD 2 G
13-Plg	7.34	29.93	32.4	0.20	0.05	33.14	11.41	107	IDI IO	IWOD OIS Z HOW	Ang 5	0000 2 0
			34.9									
14-Plg		27 27		0 26	0.05	22 05	11 /1	110	DCD 10	IWob UP3-2 Low	Ang 9 1 6-0	GOLD 3 G
15	7.34	37.27	37.3	0.36	0.85	33.05	11.41	110	PSR-10	IWOD UP3-2 LOW	Ang 9	GOTD 2 G
16-Plg			39.7									
17-Plg			42.2						10	1 2 2 -		
	7.50	44.77	44.8	0.42	0.85	32.96	11.41	112	PSR-10	IWob UP3-2 Low	Ang 9 🌃 6-0	GOLD 4 G
19-Plg			47.0									
20-Plg			49.5								-0.07	
21	6.98	51.75	51.8	0.48	0.85	32.87	11.41	114	PSR-10	IWob UP3-2 Low	Ang 9 t 6-0	GOLD 5 G
22-Plg			54.3									
23-Plg			56.8									
24	7.50	59.25	59.3	0.56	0.85	32.78	11.41	116	PSR-10	IWob UP3-2 Low	Ang 9 t 6-0	GOLD 6 G
25-Plg			61.7									
26-Plq			64.2									
_	7.34	66.59	66.6	0.63	0.85	32.69	11.41	117	PSR-10	IWob UP3-2 Low	Ang 9 🎁 6-6	GOLD 7 G
28-Plg			69.0									
29-Plg			71.5									
30	7.34	73.93	73.9	0.70	0.85	32.60	11.41	118	PSR-10	IWob UP3-2 Low	Ang 9 1 6-	GOLD 8 G
31-Plg			76.4				,					
32-Plg			78.9									
33		81.27		0.78	0.85	32 51	11 41	119	PSR-10	IWob UP3-2 Low	Ang 9 🎳 6-1	GOLD 9 G
34-Plg		01.21	83.7	0.70	0.00	52.51	11.11	117	1510 10	1.102 010 2 HOW	9	
35-Plg			86.2									
		00 77		0 03	0.85	32 /11	11 /1	11Ω	DCD_10	IWob UP3-2 Low	Ang 9 1 6-	GOLD 10
36		88.77		0.83	0.85	32.41	11.41	113	L2V-10	TWOD OF3-2 LOW	Tild 3	GOTID 10
37-Plg			91.0									
38-Plg			93.5	0.00	0 05	20 22	11 41	110	DGD 10	TM-1- HD2 0 7	7	COLD 11
39		95.75	95.8	0.89	0.85	32.33	11.41	119	PSR-10	IWob UP3-2 Low	Ang 9 1 6-	GOLD 11
40-Plg			98.3									
41-Plg			100.8									

Date: 06/20					INGER rt No: Nesis,	Shawn, Sh			В	KS Dont of Assistation	Page 7
- 77 (1)	LOCA	ATION			HYDRAULI	CS DATA				HARDWARE DESCRIPTION Iture	Goose Neck
OUTLET	DISTANG LAST OUTLET (FT)	CE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH	PRESS H REG MODEL	SENNINGER NOZZ SIZE SPRINKLER (64TH INCH MODEL&PAD/Weight &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
42 43-Plg 44-Plg	7.50	103.25	103.3 105.7 108.2	0.98	1.00	32.24	11.41	118	PSR-10	IWob UP3-2 Low Ang 9 ** 6.5-0	
_	7.34	110.59	110.6 113.0 115.5	1.04	1.00	32.15	11.41	117	PSR-10	IWob UP3-2 Low Ang 9 ** 6.5-0	
	7.34	117.93	117.9 120.4 122.9	1.11	1.17	32.06	11.40	116	PSR-10	IWob UP3-2 Low Ang 9 🎷 7-LIN	
	7.34	125.27	125.3 127.7 130.2	1.20	1.17	31.97	11.40	114	PSR-10	IWob UP3-2 Low Ang 9 🎷 7-LIM	
54 55-Plg 56-Plg	7.50	132.77	132.8 135.0 137.5	1.23	1.17	31.88	11.40	112	PSR-10	IWob UP3-2 Low Ang 9 7-LIM	
57 58-Plg 59-Plg	6.98	139.75	139.8 142.3 144.8	1.30	1.34	31.79	11.40	110	PSR-10	IWob UP3-2 Low Ang 9 🏰 7.5-I	
60 61-Plg 62-Plg	7.50	147.25	147.3 149.7 152.2	1.40	1.34	31.70	11.40	108	PSR-10	IWob UP3-2 Low Ang 9 🍟 7.5-I	
	7.34	154.59	154.6 157.0 159.5	1.46	1.53	31.61	11.39	105	PSR-10	IWob UP3-2 Low Ang 9 🎁 8-LAV	
_	7.34	161.93	161.9 164.3 166.8	1.53	1.53	31.53	11.39	102	PSR-10	IWob UP3-2 Low Ang 9 1 8-LAN	
	7.34	169.27	169.3 171.7 174.2	1.62	1.53	31.44	11.39	99	PSR-10	IWob UP3-2 Low Ang 9 1 8-LAV	
72 73-Plg Tower 1		176.77 179.00	176.8 179.0 181.60	1.73	1.72	31.35	11.38	96	PSR-10	IWob UP3-2 Low Ang 9 🏰 8.5-I	LAV/* 22 G
74-Plg 75 76-Plg	7.73	2.90	182.4 184.5 186.8	1.79	1.72	31.26	11.38	96	PSR-10	IWob UP3-2 Low Ang 9 🏕 8.5-I	LAV/* 23 G
77-Plg 78 79-Plg 80-Plg		10.23	189.3 191.8 194.3 196.7	1.81	1.72	31.17	11.38	99	PSR-10	IWob UP3-2 Low Ang 9 🏰 8.5-I	
81 82-Plg		17.57	199.2	1.88	1.93	31.08	11.38	102	PSR-10	IWob UP3-2 Low Ang 9 🏕 9-GRE	EY 25 G

Date: 06/20/2024	e es			INGER art No: Nesis,	Shawn, Sh			OB	JUN 27 2024	Page 8
LOC	ATION			HYDRAUL	CS DATA		4		HARDWARE DESCRIPTION	Goose Neck
DISTAN DUTLET LAST COUNT OUTLET (FT)	CE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROF LENG (in)		SENNINGER NOZZ SIZE SPRINKLER (64TH INCH) MODEL&PAD/Weight &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
83-Plq		204.0								
84 7.34 85-Plg	24.91	206.5	1.95	1.93	31.00	11.37	105	PSR-10	IWob UP3-2 Low Ang 9 🎁 9-GRE	Y 26 0
86-Plg 87 7.34	32.25	211.3 213.8	2.02	1.93	30.91	11.37	108	PSR-10	IWob UP3-2 Low Ang 9 🎁 9-GRE	Y 27 (
88-Plg 89-Plg		216.3 218.7								
90 7.34 91-Plg	39.59	221.2	2.08	2.16	30.83	11.37	110	PSR-10	IWob UP3-2 Low Ang 9 🎁 9.5-G	RY/* 28
92-Plg 93 7.31	46.90	226.0	2.15	2.16	30.74	11.36	113	PSR-10	IWob UP3-2 Low Ang 9 🎁 9.5-G	RY/* 29
94-Plg 95-Plg	10.30	230.8	2.10	2.10						
96 7.33 97-Plg	54.23	235.8 238.3 240.7	2.22	2.16	30.66	11.36	115	PSR-10	IWob UP3-2 Low Ang 9 🍟 9.5-G	RY/* 30
98-Plg 99 7.34 100-Plg	61.57	243.2 245.6	2.29	2.39	30.57	11.35	116	PSR-10	IWob UP3-2 Low Ang 9 10-TU	RQUOISE 31
101-Plg		248.0								
102 7.34 103-Plg	68.91	250.5 252.9	2.36	2.39	30.49	11.35	117	PSR-10	IWob UP3-2 Low Ang 9 🎁 10-TU	RQUOISE 32
104-Plg 105 7.34 106-Plg	76.25	255.4 257.9 260.3	2.43	2.39	30.40	11.35	118	PSR-10	IWob UP3-2 Low Ang 9 🎁 10-TU	RQUOISE 33
107-Plg 108 7.34 109-Plg	83.59	262.7 265.2 267.8	2.50	2.39	30.32	11.35	119	PSR-10	IWob UP3-2 Low Ang 9 10-TU	RQUOISE 34
110-Plg 111 7.31 112-Plg	90.90	270.0 272.5 274.8	2.56	2.63	30.24	11.34	119	PSR-10	IWob UP3-2 Low Ang 9 🎳 10.5-	TUR/* 35
113-Plg 114 7.33 115-Plg	98.23	277.3 279.8 282.3	2.64	2.63	30.16	11.34	119	PSR-10	IWob UP3-2 Low Ang 9 🏕 10.5-	TUR/* 36
116-Plg 117 7.34 118-Plg	105.57	284.7 287.2 289.6	2.71	2.63	30.07	11.34	118	PSR-10	IWob UP3-2 Low Ang 9 🏕 10.5-	TUR/* 37
119-Plg 120 7.34 121-Plg	112.91	292.0 294.5 296.9	2.78	2.89	29.99	11.33	117	PSR-10	IWob UP3-2 Low Ang 9 t 11-YE	LLOW 38
122-Plg 123 7.34 124-Plg	120.25	299.4 301.9 304.3	2.85	2.89	29.91	11.33	116	PSR-10	IWob UP3-2 Low Ang 9 🎷 11-YE	LLOW 39

Date: 06/20			7-1		INGER art No: Nesis,	Shawn, Sh			DВ	JUN 27 2024	, i l	Page 9
T. Leibile		ATION			HYDRAUL			T ====		S Dept HARDWARE DESCRIPTIO		Goose Neck
OUTLET	DISTAN LAST OUTLET (FT)	CE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGT		SENNINGER Culture SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
125-Pl	a	Will en la	306.7					1 140				
126	-	127.59	309.2	2.91	2.89	29.83	11.32	114	PSR-10	IWob UP3-2 Low Ang 9	11-YELLO	W 40 G
127-Pl		127.00	311.8	2.51	2.03	23.00	11.02					
128-Pl	_		314.0									
129		134.90	316.5	2.98	2.89	29 75	11.32	112	PSR-10	IWob UP3-2 Low Ang 9	11-YELLO	W 41 G
130-Pl		134.50	318.8	2.50	2.03	23.75	11.02		101, 10	1		
131-Pl	_		321.3									
	7.33	142.23	323.8	3.05	3.16	29 67	11.31	109	PSR-10	IWob UP3-2 Low Ang 9	11 5-YET	/* 42 0
		142.23		3.03	3.10	29.07	11.51	103	ISK IO	IWOD 013 Z HOW Ally 9	11.5 111	1/ 12 0
133-Pl			326.3									
134-Plo		140 57	328.7	2 12	2.16	20 50	11 21	107	PSR-10	IWob UP3-2 Low Ang 9	11 5_VET	/* 43 (
135		149.57	331.2	3.13	3.16	29.59	11.31	107	L2K-10	TWOD UP3-2 LOW AND 9	11.5-1E1	43 (
136-Pl	-		333.6									
137-Pl	-		336.0	0.10	0 16	00 51	11 01	104	DGD 10	IWob UP3-2 Low Ang 9	₩ 11 E VET	/* 44 (
	7.34	156.91	338.5	3.19	3.16	29.51	11.31	104	PSR-10	IWOD UP3-2 Low Ang 9	₩ 11.5-YEI	./* 44 (
139-Pl	-		340.9									
140-Pl			343.3								AF	
	7.34	164.25	345.8	3.26	3.16	29.43	11.30	101	PSR-10	IWob UP3-2 Low Ang 9	11.5-YEI	/* 45 (
142-Pl	g		348.3									
143-Pl	g		350.7								* #	
144	7.34	171.59	353.2	4.02	4.04	29.36	11.25	98	PSR-10	IWob UP3-2 Low Ang 9	13-WHITE	46 0
145-Pl	g		355.8									
146-Pl	g		358.0									
Tower 2		179.00	360.60		Pl Se							
147-Pl	g		361.4								* #	
148	10.31	2.90	363.5	4.11	4.04	29.25	11.24	96	PSR-10	IWob UP3-2 Low Ang 9	₩ 13-WHITE	47 (
149-Pl	q		365.8									
150-Pl	-		368.3									
151	_	10.23	370.8	3.50	3.44	29.17	11.29	99	PSR-10	IWob UP3-2 Low Ang 9	12-RED	48 (
152-Pl			373.3									
153-Pl			375.7									
	7.34	17.57	378.2	3.57	3.44	29.10	11.29	102	PSR-10	IWob UP3-2 Low Ang 9	12-RED	49
155-Pl			380.6									
156-Pl	_		383.0								1204	
157		24.91	385.5	3.64	3.73	29.02	11.27	105	PSR-10	IWob UP3-2 Low Ang 9	12.5-REI)/* 50 (
158-Pl		21.31	387.9	3.01	3.73	23.02				The second second	- AME H II	
159-Pl			390.4									
	7.34	32.25	392.9	3 71	3.73	28 95	11.27	108	PSR-10	IWob UP3-2 Low Ang 9	12.5-REI)/* 51 (
161-Pl		52.25	395.3	3.71	3.75	20.55	/	100	101. 10			
			397.7									
162-Pl		20 E0		2 77	3.73	20 07	11.27	110	PSR-10	IWob UP3-2 Low Ang 9	12.5-REI)/* 52
163		39.59	400.2	3.77	3.13	20.07	11.21	110	I DIV-IO	THOS OF 2 HOW ANY	12.0 1(1)	52
164-Pl			402.8									
165-Pl	g		405.0									

JUN 2 7 2024

Date: 06/2		ATION			INGER art No: Nesis,	Shawn, Sh			В	HARDWARE DESCRIPTION TO		Page 10 Goose Neck
OUTLET		ICE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGT	PRESS H REG MODEL	SENNINGER NC SPRINKLER (64	OZZ SIZE 4TH INCH) COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
166	7.31	46.90	407.5	3.84	3.73	28.80	11.27	113	PSR-10	IWob UP3-2 Low Ang 9	12.5-RED	/* 53 G
167-P	la		409.8									
168-P			412.3									
	7.33	54.23	414.8	3.91	4.04	28.73	11.25	115	PSR-10	IWob UP3-2 Low Ang 9	13-WHITE	54 G
170-P			417.3									
171-P	_		419.7									
	7.34	61.57	422.2	3.98	4.04	28.65	11.25	116	PSR-10	IWob UP3-2 Low Ang 9 🥻	13-WHITE	55 G
173-P		02.0	424.6									
174-P			427.0								_	
	7.34	68.91	429.5	4.05	4.04	28.58	11.25	117	PSR-10	IWob UP3-2 Low Ang 9 🖠	13-WHITE	56 G
176-P		00.31	431.9									
177-P	n		434.4									
	7.34	76.25	436.9	4.12	4.04	28.51	11.24	118	PSR-10	IWob UP3-2 Low Ang 9	13-WHITE	57 G
179-P		70.25	439.3	4.12	1.01	20.01			2011			
180-P			441.7									
	7.34	83.59	444.2	4.18	4.04	28 44	11.24	119	PSR-10	IWob UP3-2 Low Ang 9	13-WHITE	58 0
		03.39	446.8	4.10	4.04	20.44	11.24	117	101 10	11102 010 2 2011 11119 3		
182-P	_		449.0									
183-P.		00 00		4.25	4.35	29 37	11.23	110	PSR-10	IWob UP3-2 Low Ang 9	№ 13.5-WHT	/* 59 G
	7.31	90.90	451.5 453.8	4.25	4.33	20.37	11.25	119	I SIC 10	IWOD 013 Z How Imig 3	10.0	,
185-P												
186-P		00 00	456.3	1 22	4.35	20 20	11.22	110	PSR-10	IWob UP3-2 Low Ang 9	13 5-₩HT	/* 60 G
	7.33	98.23	458.8	4.33	4.33	20.30	11.22	119	F3K-10	IWOD OF 3 Z HOW Ally 3	13.3 WIII	, 00 0
188-P	_		461.3									
189-P	_	105 57	463.7	1 10	4.35	20 22	11.22	110	PSR-10	IWob UP3-2 Low Ang 9	№ 13 5-WHT	/* 61 G
	7.34	105.57	466.2	4.40	4.35	28.23	11.22	110	PSK-10	IWOD 0F3-2 How Alig 9	13.5 WIII	, 01 0
191-P	-		468.6									
192-P		110 01	471.0	4 47	4 25	20 16	11.22	117	PSR-10	IWob UP3-2 Low Ang 9	№ 13 5-WHT	/* 62 0
	7.34	112.91	473.5	4.47	4.35	28.16	11.22	11/	PSK-10	IWOD 0F3-2 LOW Ally 9	13.5 WIII	, 02
194-P	_		475.9									
195-P		100 05	478.4	4 54	1 60	20 10	11.20	116	PSR-10	IWob UP3-2 Low Ang 9	1/-BIJE	63 (
196	7.34	120.25	480.9	4.54	4.68	28.10	11.20	110	PSR-10	IWOD 0F3-2 LOW Ally 9	14 DHOL	05 0
197-P			483.3									
198-P	_	405 50	485.7	4 60	4 60	00 00	11 00	111	DCD 10	IWob UP3-2 Low Ang 9	1/-BITE	64 (
	7.34	127.59		4.60	4.68	28.03	11.20	114	PSR-10	TWOD OF3-2 LOW AIR 9	TA-DIOF	04 (
200-P			490.8									
201-P			493.0			07 00	11 10	110	DGD 10	IWob UP3-2 Low Ang 9 🍟	1/-51115	65 (
	7.31	134.90		4.66	4.68	27.96	11.19	112	PSR-10	TWOD UP3-2 LOW And 9	T4-BLOF	65 6
203-P			497.8									
204-P		2012 20 1000	500.3		(a_	0.0	11 10	100	DOD 10	IWob UP3-2 Low Ang 9	14_0110	66 (
	7.33	142.23		4.74	4.67	27.90	11.19	109	PSR-10	TWOD UP3-2 LOW Ang 9	T4-BLOE	00
206-P	-		505.3									
207-P	lg		507.7									

transfer of	0/2024	ATION		Cita	rt No: Nesis,		orty, ooo C	JI W I W OL	KS	Dept. oHARDWARE DESCRIPTION		Page 11 Goose Neck
		CE FROM		OUTLET	ACTUAL	MAIN	SPR.	DROP	PRESS			G=180°Sq
OUTLET	LAST OUTLET (FT)	LAST TOWER (FT)	PIVOT POINT (FT)	FLOW NEEDED (GPM)	OUTLET FLOW (GPM)	PIPE PRESS (PSI)	BASE PRESS (PSI)	LENGTH		SPRINKLER	(64TH INCH)	Sg=125°Sg Db=125°Db NOZZ#
208 209-Plg		149.57	510.2 512.6	4.81	4.67	27.83	11.19	107	PSR-10	IWob UP3-2 Low Ang 9	14-BLUE	67 G
212-Plg	7.34	156.91	515.0 517.5 519.9	4.88	5.01	27.77	11.17	104	PSR-10	IWob UP3-2 Low Ang 9	№ 14.5-BLU/	/* 68 G
215-Plg	7.34	164.25	522.4 524.9 527.3	4.95	5.01	27.71	11.17	101	PSR-10	IWob UP3-2 Low Ang 9	/ 14.5-BLU/	/* 69 G
216-Plg 217 218-Plg	7.34	171.59	529.7 532.2 534.8	6.05	6.08	27.64	11.06	98	PSR-10	IWob UP3-2 Low Ang 9	/ 16-ORANGE	E 70 G
219-Plg Cower 3 220-Plg		179.00	537.0 539.60 540.4	-		w =		ļ	:		_	
221 222-Plg 223-Plg	10.31	2.90	542.5 544.8 547.3	6.14	6.08	27.56	11.05	96	PSR-10	IWob UP3-2 Low Ang 9 省	16-ORANGE	71 (
224 225-Plg 226-Plg	7.33	10.23	549.8 552.3 554.7	5.19	5.36	27.50	11.14	99	PSR-10	IWob UP3-2 Low Ang 9	/ 15-DK BRO	WN 72 (
_	7.34	17.57	557.2 559.6 562.0	5.26	5.36	27.43	11.14	102	PSR-10	IWob UP3-2 Low Ang 9	15-DK BRO	WN 73 (
230 231-Plg 232-Plg	7.34	24.91	564.5 566.9 569.4	5.33	5.36	27.37	11.13	105	PSR-10	IWob UP3-2 Low Ang 9	/ 15-DK BRO	WN 74
	7.34	32.25	571.9 574.3 576.7	5.40	5.36	27.32	11.13	108	PSR-10	IWob UP3-2 Low Ang 9	15-DK BRO	WN 75
_	7.34	39.59	579.2 581.8 584.0	5.45	5.35	27.26	11.13	110	PSR-10	IWob UP3-2 Low Ang 9	₽ 15-DK BRO	WN 76
the state of the s	7.31	46.90	586.5 588.8 591.3	5.52	5.35	27.20	11.12	113	PSR-10	IWob UP3-2 Low Ang 9	₹ 15-DK BRO	WN 77
242 243-Plg 244-Plg	7.33	54.23	593.8 596.3 598.7	5.60	5.71	27.14	11.10	115	PSR-10	IWob UP3-2 Low Ang 9	" 15.5-DBN/	/* 78
245 246-Plg	7.34	61.57	601.2 603.6 606.0	5.67	5.71	27.09	11.10	116	PSR-10	IWob UP3-2 Low Ang 9	# 15.5-DBN/	/* 79
247-Plg 248	7.34	68.91	608.5	5.74	5.71	27.03	11.09	117	PSR-10	IWob UP3-2 Low Ang 9	# 15.5-DBN/	/* 80

Date: 06/20	/2024	27.26 Pet -4			INGER art No: Nesis,	Shawn, Sh			В	JUN 2	7 2024	Page 12
	LOC	ATION		and the death of the	HYDRAUL	ICS DATA				HARDWARE DESCRIPTIO	Magriculture	Goose Neck
OUTLET	DISTANG LAST OUTLET (FT)	CE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGT (in)	PRESS H REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
249-Plg			610.9	- Indian								
250-Plg			613.4									
251		76.25	615.9	5.81	5.71	26.97	11.09	118	PSR-10	IWob UP3-2 Low Ang 9	15.5-DBI	1/* 81 G
252-Plg		70.20	618.3	0.01	10.					3	T-	
253-Plg	•		620.7									
_		02 50	623.2	5.87	5.71	26.92	11.09	110	PSR-10	IWob UP3-2 Low Ang 9	# 15 5-DBI	1/* 82 G
254		83.59		3.07	5.71	20.92	11.09	119	FSK-10	IWOD 013 Z HOW Ally 9	13.5 DD	02 0
255-Plg			625.8									
256-Plg			628.0			06.00	11 00	110	505 10	IWob UP3-2 Low Ang 9	# 1 C OD THE	GE 83 G
257		90.90	630.5	5.93	6.08	26.87	11.07	119	PSR-10	IWOD UP3-2 LOW Ang 9	16-ORANG	3E 83 G
258-Plg	ī		632.8									
259-Plg	f ·		635.3									
260	7.33	98.23	637.8	6.02	6.08	26.81	11.06	119	PSR-10	IWob UP3-2 Low Ang 9	16-ORAN	GE 84 G
261-Plg	r		640.3									
262-Plg	,		642.7									
263		105.57	645.2	6.09	6.08	26.76	11.06	118	PSR-10	IWob UP3-2 Low Ang 9	16-ORAN	GE 85 G
264-Plg		100.07	647.6	0.05								
	·		650.0									
265-Plg		110 01	652.5	6.16	6.08	26 71	11.05	117	PSR-10	IWob UP3-2 Low Ang 9	# 16-0RAN	GE 86 G
	7.34	112.91		6.16	6.08	20.71	11.05	11/	PSR-10	IWOD OF5-2 LOW Ally 9	I O ORAIN	36 00 0
267-Plg			654.9									
268-Plg			657.4						1-110	1 10	AF 15 SPAN	07 0
269	7.34	120.25	659.9	6.23	6.08	26.66	11.05	116	PSR-10	IWob UP3-2 Low Ang 9	16-ORAN	GE 87 G
270-Plg	J		662.3									
271-Plo	1		664.7									
272		127.59	667.2	6.28	6.46	26.61	11.03	114	PSR-10	IWob UP3-2 Low Ang 9	16.5-OR	1/* 88 G
273-Plg			669.8									
274-Plc			672.0									
	7.31	134.90	674.5	6.35	6.45	26.56	11.02	112	PSR-10	IWob UP3-2 Low Ang 9	# 16.5-OR	N/* 89 G
276-Plc		134.50	676.8	0.33	0.10	20.00	11.02		2011 20			
277-Plg	*	140 00	679.3	6 42	C 45	0.C E1	11.02	100	PSR-10	IWob UP3-2 Low Ang 9	16 5-OP	v/* 90 G
	7.33	142.23	681.8	6.43	6.45	26.51	11.02	109	P5R-10	IWOD UP3-2 LOW Ally 9	10.5-OK	.17 50 0
279-Plg			684.3									
280-Plg			686.7								16 5 00	7/4 01 0
	7.34	149.57	689.2	6.50	6.45	26.46	11.01	107	PSR-10	IWob UP3-2 Low Ang 9	16.5-OR	N/* 91 G
282-Plg	3		691.6									
283-Plg	J		694.0								4.00	1
284		156.91	696.5	6.57	6.45	26.41	11.01	104	PSR-10	IWob UP3-2 Low Ang 9	16.5-OR	N/* 92 G
285-Plc			698.9									
286-Plg			701.4									
287		164.25	703.9	6.64	6.45	26.36	11.01	101	PSR-10	IWob UP3-2 Low Ang 9	16.5-OR	N/* 93 G
		104.23	706.3	0.01	0.40	20.50	11.01					Α
288-Plg												
289-Plg	50 p	171 50	708.7	0 00	0.04	26 22	10 00	0.0	DCD 10	IWob UP3-2 Low Ang 9	18 5-DII	R/* 94 (
290	7.34	171.59	711.2	8.08	8.04	20.32	10.82	90	PSR-10	TWOD OF 3-2 LOW AIR 9	10.5 FU	, J4 G

Date: 06/2			ı	S E N N Cha	INGER art No: Nesis,	Shawn, Sh	3 A T I O orty, 600 C	N GPM IWOE	3	JUN 27 2024	Page 13
		ATION			HYDRAULI				K	S Dent HARDWARE DESCRIPTION	Goose Neck
OUTLET	DISTANO LAST OUTLET (FT)	CE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTH	PRESS	SENNINGER NOZZ	INCH) Sg=125°Sg
291-Pl 292-Pl	The second secon		713.8 716.0		-\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -\ -		- '		, i j = i,		
Cower 4		179.00	718.60								The same
293-Pl			719.6								
294	10.31	2.90	721.5	8.17	8.04	26.25	10.81	96	PSR-10	IWob UP3-2 Low Ang 9 🍟 1	8.5-PUR/* 95 G
295-Pl	-		723.8								
296-Pl			726.3								
297		10.23	728.8	6.87	6.84	26.21	10.97	99	PSR-10	IWob UP3-2 Low Ang 9 🎁 1	7-DK GREEN 96 G
298-Pl	_		731.3								
299-Pl	_		733.7		4			100	DOD 10		7 DV CDEE: 05 -
	7.34	17.57	736.2	6.95	6.84	26.16	10.97	102	PSR-10	IWob UP3-2 Low Ang 9 🎁 1	7-DK GREEN 97 G
301-Pl	-		738.6								
302-P1	_		741.0			06.16	10.00	105	DOD 10	IWob UP3-2 Low Ang 9 💞 1	7 DV CDEEN 00 0
303		24.91	743.5	7.02	6.83	26.12	10.96	105	PSR-10	TWOD UP3-2 Low Ang 9	7-DK GREEN 98 G
304-P1	-		745.9								
305-Pl	-		748.4			06.05	10 00	100	DOD 10	IWob UP3-2 Low Ang 9 📌 1	7.5-DGN/* 99 G
306		32.25	750.9	7.09	7.23	26.07	10.93	108	PSR-10	Twob UP3-2 Low Ang 9 W 1	7.5-DGN/* 99 G
307-Pl	_		753.3								
308-P1	~		755.7			06.00	10 00	111	DOD 10	IWob UP3-2 Low Ang 9 🛷 1	7.5-DGN/* 100
	7.34	39.59	758.2	7.14	7.23	26.03	10.93	111	PSR-10	IWOD UP3-2 Low Ang 9	7.5-DGN/* 100
310-Pl	-		760.8								
311-Pl	-		763.0			05 00	10 00	110	DOD 10	IWob UP3-2 Low Ang 9 🕊 1	7.5-DGN/* 101
312		46.90	765.5	7.20	7.23	25.99	10.93	113	PSR-10	IWOD UP3-2 Low Ang 9	7.5-DGN/* 101
313-Pl			767.8								
314-Pl			770.3			05.05	10 00	115	DOD 10	IWob UP3-2 Low Ang 9 🕊 1	7.5-DGN/* 102
315		54.23	772.8	7.29	7.23	25.95	10.92	112	PSR-10	TWOD UP3-2 LOW ANG 9 W I	/.J-DGN/~ 102
316-Pl	-		775.3								
317-Pl	T-	61 55	777.7	7 26	7 00	25 22	10 00	117	DCD 10	IWob UP3-2 Low Ang 9 🐩 1	7.5-DGN/* 103
	7.34	61.57	780.2	7.36	7.23	25.90	10.92	TT /	PSR-10	IWOD UP3-2 LOW Ally 9	7.3-DGN/~ 103
319-Pl	-		782.6								
320-Pl		60 01	785.0	7 42	7 64	25 06	10.89	110	PSR-10	IWob UP3-2 Low Ang 9 🏕 1	8-PURPLE 104
321		68.91	787.5	7.43	7.64	25.80	10.89	119	L2V-10	IWOD OF3-2 LOW AIR 9	O FORFIE 104
322-Pl			789.9								
323-Pl		76 05	792.4	7 50	7 63	25 02	10.88	120	PSR-10	IWob UP3-2 Low Ang 9 🏕 1	8-PURPLE 105
324		76.25	794.9	7.50	7.63	23.82	10.88	120	LDV-10	IWOD OF 3-2 LOW AIR 9	O PORFIE 100
325-Pl			797.3								
326-P1		02 50	799.7	7 56	7 63	25 70	10.88	121	PSR-10	IWob UP3-2 Low Ang 9 🕡 1	8-PURPLE 106
327		83.59		7.56	7.63	23.10	10.00	121	121-10	INOD OF 3-2 How Airy 9	0 101/1111 100
328-P1			804.8								
329-P1		00 01	807.0	7 60	7 63	25 74	10 07	122	PSR-10	IWob UP3-2 Low Ang 9 🏕 1	8-PURPLE 107
330		90.91		7.62	7.63	25.74	10.87	122	FDK-IU	IWOD UP3-2 LOW Ally 9	O-FORFLE IU/
331-Pl	.g		811.8								

JUN 27 2024

										JUN 2 / 2024		
Date: 06/2	0/2024				INGER art No: Nesis)B	KS Dent of Agriculture		Page 14
	LOC	ATION	, in the		HYDRAUL	ICS DATA				HARDWARE DESCRIPTIO	N	Goose Neck
OUTLET	DISTAN LAST OUTLET (FT)	CE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENG		SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
332-P1	~		814.3				9					
	_	00 24		7 70	7.63	25.71	10.87	122	PSR-10	IWob UP3-2 Low Ang 9	# 18-DIIDDI	108
333		98.24	816.8	7.70	7.63	25.71	10.07	122	PSK-10	IWOD OF3-2 LOW AIR 9	IO-FORFLI	100
334-Pl	_		819.3									
335-Pl			821.7		7 60	05 65	10 06	100	DGD 10	IWob UP3-2 Low Ang 9	# 10 DUDDI	109
336		105.58	824.2	7.79	7.63	25.67	10.86	122	PSR-10	IMOD UP3-2 LOW Ang 9	18-PURPLI	109
337-Pl			826.7									
338-P1	-		829.0									
339	7.36	112.94	831.5	7.85	8.04	25.63	10.83	121	PSR-10	IWob UP3-2 Low Ang 9	18.5-PUR	/* 110
340-Pl	g		833.8									
341-Pl	g		836.4									
342	7.33	120.27	838.9	7.91	8.04	25.59	10.83	121	PSR-10	IWob UP3-2 Low Ang 9	18.5-PUR	/*
343-P1	g		841.3									
344-Pl	q		843.7									
345		127.61	846.2	7.99	8.04	25.56	10.82	120	PSR-10	IWob UP3-2 Low Ang 9	18.5-PUR	/* 112
346-Pl			848.6									
347-P1	-		851.0									
	7.34	134.95	853.5	8.06	8.04	25.52	10.82	118	PSR-10	IWob UP3-2 Low Ang 9	18.5-PUR	/* 113
349-P1		201100	856.0									
350-P1	-		858.4									
351	7	142.29	860.9	8.12	8.04	25 48	10.81	116	PSR-10	IWob UP3-2 Low Ang 9	# 18.5-PUR	/* 114
352-P1		142.25	863.3	0.12	0.01	23.10	10.01	110	101(10	inob oro z zow imig s	. 10.0 1010	
353-P1			865.7									
354		149.63	868.2	8.18	8.04	25.45	10.81	114	PSR-10	IWob UP3-2 Low Ang 9	# 18 5-PUR	/* 115
		149.03	870.8	0.10	0.04	23.43	10.01	114	ISK IO	IWOD 013 Z HOW ANG 3	- 10.5 TOR	110
355-Pl 356-Pl	_		873.1									
356-F1 357	_	156.94	875.5	8.24	8.04	25 /11	10.81	112	PSR-10	IWob UP3-2 Low Ang 9	# 18 5-PIIR	/* 116
		130.94	877.8	0.24	0.04	25.41	10.01	112	FSK TO	IWOD 013 Z HOW ANG 3	10.5 TOR	110
358-Pl	-											
359-Pl	-	164 07	880.4	0 22	8.46	25 20	10.77	110	PSR-10	IWob UP3-2 Low Ang 9	10-DIACK	117
	7.33	164.27	882.9	8.33	8.46	25.38	10.77	110	PSR-10	IWOD OF3-2 LOW ANG 9	I J-BLACK	11/
361-Pl			885.3									
362-P1	_	171 61	887.7	0 40	0.46	25 24	10 77	107	DGD 10	IWob UP3-2 Low Ang 9	10 DIACK	118
363		171.61	890.2	8.40	8.46	25.34	10.77	107	PSR-10	IWOD UP3-2 LOW AND 9	F 19-BLACK	110
364-Pl	-		892.6									
365-Pl		450 05	895.0		0.46	05 01	10 76	101	DGD 10	TILL 11D2 0 T 0	10 DIACK	110
366		178.95		8.47	8.46	25.31	10.76	104	PSR-10	IWob UP3-2 Low Ang 9	19-BLACK	119
367-Pl	-		900.0									
368-P1			902.4					4.5-			A 10 pro-	100
369		186.29		8.54	8.45	25.27	10.76	101	PSR-10	IWob UP3-2 Low Ang 9	■ 19-BLACK	120
370-Pl			907.3									
371-Pl			909.7							7 3 4 5 4 3 3	48	
372	7.34	193.63	912.2	11.24	11.06	25.24	10.34	98	PSR-10	IWob UP3-2 Low Ang 9	22-MAROO!	121
373-Pl	.g		914.8									

Date: 06/20	/2024				INGER art No: Nesis				B	JUN 27 2024	* 1	Page 15
Date: 00/20	LOCA	ATION		CII	HYDRAUL		101ty, 000 C	1111110		KS DHARDWARE DESCRIPTIO	N	Goose Neck
OUTLET	DISTANC LAST OUTLET (FT)	CE FROM LAST TOWER (FT)	PIVOT POINT (FT)	OUTLET FLOW NEEDED (GPM)	ACTUAL OUTLET FLOW (GPM)	MAIN PIPE PRESS (PSI)	SPR. BASE PRESS (PSI)	DROP LENGTI	PRESS H REG MODEL	SENNINGER SPRINKLER MODEL&PAD/Weight	NOZZ SIZE (64TH INCH) &COLOR	G=180°Sg Sg=125°Sg Db=125°Db NOZZ#
374-Plg		201.00	917.1 919.60									
	. CHANGE	AT 919.6		M 6.395	inch TO 5	.369 inc	ch					
375-Plg			921.7									
376 377-Plg	11.81	4.44	924.0 926.5	11.41	11.53	25.18	10.28	95	PSR-10	IWob UP3-2 Low Ang 9	22.5-MRN	1/* 122 (
378-Plg		11 06	929.0	0 04	0 00	05 15	10 71	0.5	DGD 10	IWob UP3-2 Low Ang 9	# 10 5 PT	. /
379 380-Plg 381-Plg		11.86	931.5 933.9 936.4	8.84	8.88	25.15	10.71	95	PSR-10	IWOD UP3-2 LOW Ang 9	19.5-BLK	:/* 123 (
382 383-Plg	7.34	19.20	938.8	8.86	8.88	25.12	10.70	95	PSR-10	IWob UP3-2 Low Ang 9	1 9.5-BLK	124
384-Plg			943.7									
385 386-Plg		26.54	946.1 948.6	8.93	8.88	25.08	10.70	95	PSR-10	IWob UP3-2 Low Ang 9	19.5-BLK	1/* 125 (
389-Plg	7.34	33.88	951.1 953.5 955.9	9.05	8.87	25.05	10.69	95	PSR-10	IWob UP3-2 Low Ang 9	₩ 19.5-BLK	:/* 126 0
390-Plg 391 392-Plg	7.42	41.30	958.4 960.9 963.2	6.78	6.84	25.02	10.98	95	PSR-10	IWob UP3-2 Low Ang 9	1 7−DK GR	EEN 127 (
393	3.57	44.87	964.5	4.43	4.35	25.00	11.22	95	PSR-10	IWob UP3-2 Low Ang 9	13.5-WHT	/* 128 0

316.661.2281

WATER RESOURCES RECEIVED

jason.wood@96agrisales.com

JUN 27 2024

Mt Hope, KS 67108

Chart Design by Jason Wood

Date: 06/	/20/2024		Chart 1	No: Nesi	s, Shav	vn, Shor	ty, 600 (GPM IV	OB				1-72	Page 16	
M	ATERIALS	IWob UP3 Size Positions													
Qty	Pad	Size					Posi	tions							
11	Low Ang 9	6	1	2	3	4	5	6	7	8	9	10			
2	Low Ang 9	6.5	12	13				14							
3	Low Ang 9	7	14	15	16	- 1	- !- ;				i j	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
2	Low Ang 9	7.5	17	18								Y 711 1	-		
3	Low Ang 9	8	19	20	21	. '	A. T.					†4 			
3	Low Ang 9	8.5	22-Т	T-23	24							4 11 T	4 5		
3	Low Ang 9	9	25	26	27			<u> </u>							
3	Low Ang 9	9.5	28	29	30		1	11				-		· '	
4	Low Ang 9	10	31	32	33	34	7	1-1					12-	1	
3	Low Ang 9	10.5	35	36	37	· 1		1 -			×			1	
4	Low Ang 9	11	38	39	40	41	U I	-	1				,	1	
4	Low Ang 9	11.5	42	43	44	45			1 /	1 - Pr.		7			
2	Low Ang 9	12	48	49	1 1 2		. '		5 4	1					
4	Low Ang 9	12.5	50	51	52	53		1 7 19			1				
7	Low Ang 9	13	46-T	T-47	54	55	56	57	58	. '		,			
5	Low Ang 9	13.5	59	60	61	62	128-	·T					-		
	$\left\{ \int_{\mathbb{R}^{2n}}^{\frac{1}{2n}} x ^{n} \right\}$														

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M	ATERIALS	IWo	b UP3	t-	4						, odk)			YT	
Qty	Pad	Size					Posit	cions							
5	Low Ang 9	14	63	64	65	66	67	- J	Yar a						
2	Low Ang 9	14.5	68	69						14		4	5		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6	Low Ang 9	15	72	73	74	75	76	77			1 /	-	10	,	n t j je
5	Low Ang 9	15.5	78	79	80	81	82			-	1,				
7	Low Ang 9	16	70-T	T-71	83	84	85	86	87	-		1			
6	Low Ang 9	16.5	88	89	90	91	92	93		1	- 1			4	
4	Low Ang 9	17	96	97	98	127		7 1	T			p. s	_		
5	Low Ang 9	17.5	99	100	101	102	103	1		1					
6	Low Ang 9	18	104	105	106	107	108	109							
9	Low Ang 9	18.5	94-T	T-95	110	111	112	113	114	115	116		,- 'i	1	- 3 1/2
4	Low Ang 9	19	117	118	119	120	7.4			7				1	e.F 1 1 1 1 1 1 1 1 1
4	Low Ang 9	19.5	123	124	125	126		1 3					T. C.	3 I	
1	Low Ang 9	22	121-T		- p 1839	<u> </u>	1-					le _b	*	- 4	
1	Low Ang 9	22.5	T-122	F , 1' = 1 = 1	100 E			r =	1 2						
128	Total		, 27 , g	-	1		-	- - 	-						e e

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QUANTITIES Ty Item	
28	
28 PSR-10 (inch) (inch) (x 95 Drop 6 x 114 Drop 6 x 96 Drop 4 x 115 Drop 6 x 99 Drop 9 x 116 Drop 6 x 101 Drop 9 x 118 Drop 6 x 104 Drop 13 x 119 Drop 6 x 105 Drop 3 x 121 Drop 6 x 107 Drop 3 x 122 Drop 7 x 108 Drop 8 x 109 Drop 9 x 111 Drop 1 x 101 Drop 1 x 102 Drop 1 x 105 Drop 1 x 111 Drop	
(inch) (inch) (x 95 Drop 6 x 114 Drop 6 x 96 Drop 4 x 115 Drop 8 x 98 Drop 9 x 116 Drop 8 x 101 Drop 9 x 117 Drop 8 x 102 Drop 13 x 119 Drop 8 x 104 Drop 2 x 120 Drop 8 x 105 Drop 3 x 121 Drop 8 x 107 Drop 3 x 122 Drop 8 x 109 Drop 8 x 110 Drop 8 x 110 Drop 8 x 110 Drop 8 x 111 Drop 8 x 112 Drop 8 x 111 Drop 8 x 112 Drop 8 x 111 Drop 8 x 111 Drop 8 x 112 Drop 8 x 111 Drop 8 x 111 Drop 8 x 112 Drop	
(inch) (inch)	
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3 x 96 Drop 4 x 115 Drop 4 x 98 Drop 9 x 116 Drop 5 x 99 Drop 9 x 117 Drop 4 x 101 Drop 9 x 118 Drop 5 x 102 Drop 13 x 119 Drop 5 x 104 Drop 2 x 120 Drop 5 x 105 Drop 3 x 121 Drop 5 x 107 Drop 3 x 122 Drop 5 x 100 Drop 3 x 122 Drop 5 x 110 Drop 4 x 113 Drop 5 x 112 Drop 4 x 113 Drop	
3 x 96 Drop 4 x 115 Drop 4 x 98 Drop 9 x 116 Drop 5 x 99 Drop 9 x 117 Drop 4 x 101 Drop 9 x 118 Drop 5 x 102 Drop 13 x 119 Drop 5 x 104 Drop 2 x 120 Drop 5 x 105 Drop 3 x 121 Drop 5 x 107 Drop 3 x 122 Drop 5 x 100 Drop 3 x 122 Drop 5 x 110 Drop 4 x 113 Drop 5 x 112 Drop 4 x 113 Drop	
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3 x 99 Drop 9 x 117 Drop 4 x 101 Drop 9 x 118 Drop 5 x 102 Drop 13 x 119 Drop 5 x 104 Drop 2 x 120 Drop 5 x 105 Drop 3 x 121 Drop 5 x 107 Drop 3 x 122 Drop 5 x 109 Drop 3 x 122 Drop 5 x 110 Drop 4 x 111 Drop 5 x 112 Drop 113 Drop	
3 x 101 Drop 9 x 118 Drop 5 x 102 Drop 13 x 119 Drop 5 x 104 Drop 2 x 120 Drop 5 x 105 Drop 3 x 121 Drop 5 x 108 Drop 3 x 122 Drop 5 x 109 Drop 3 x 122 Drop 5 x 110 Drop 3 x 111 Drop 6 x 112 Drop 3 x 113 Drop	
3 x 102 Drop 13 x 119 Drop 5 x 104 Drop 2 x 120 Drop 5 x 105 Drop 3 x 121 Drop 5 x 108 Drop 3 x 122 Drop 5 x 109 Drop 3 x 122 Drop 6 x 110 Drop 3 x 122 Drop 6 x 112 Drop 3 x 122 Drop 6 x 112 Drop 3 x 122 Drop	
3 x 121 Drop 5 x 107 Drop 5 x 108 Drop 6 x 100 Drop 6 x 110 Drop 6 x 111 Drop 6 x 111 Drop 7 x 112 Drop 8 x 112 Drop 9 x 113 Drop	
3 x 122 Drop 3 x 108 Drop 3 x 110 Drop 4 x 111 Drop 4 x 113 Drop	
5 x 108 Drop 6 x 109 Drop 6 x 110 Drop 6 x 111 Drop 6 x 112 Drop 6 x 113 Drop	
3 x 109 Drop 5 x 110 Drop 6 x 111 Drop 6 x 112 Drop 7 x 113 Drop	
5 x 110 Drop 5 x 111 Drop 5 x 112 Drop 4 x 113 Drop	
1 x 111 Drop 5 x 112 Drop 1 x 113 Drop	
5 x 112 Drop 1 x 113 Drop	
1 x 113 Drop	
1175.58ft TOTAL DROP LENGTH	
	l l

10400 N 247th St W

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Drop lengths are based on the following values.

Span Tower height Crown height Ground Clearance ft

1,2,3,4

12.83

14.83 15.08

Ground Clearance : General

4.00

These dimensions must be confirmed prior to manufacturing the drop components

DEVIATION SUMMARY

Span number	Area	Required flow	Actual flow	% Deviation	GPM/Acre
1	2.38	20.97	24.06	14.72	10.11
2	7.00	62.25	62.09	-0.26	8.87
3	11.62	103.52	103.35	-0.16	8.89
4	16.24	144.71	144.34	-0.26	8.89
5	23.75	211.67	211.34	-0.16	8.90
6	6.10	56.88	56.79	-0.15	9.32

Nozzle Discharge Uniformity Coefficient = 98.2 %

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Date: 06/2	20/2024		Chart No: Nesis, Shawn, Shorty, 600 GPM IWOB	Page 20
BII	LL of MATERIALS - Hydrauli	c Components		
Qty	PartNumber	Cost	Description	
128	IWOB200B3LA9UP3		I-Wob-2 Low Angle 9 Groove (Blue)	
265	FTP3		3/4" Plugs	
11	UP3NZ06		# 6 UP3 Nozzle (gold)	
2	UP3NZ065		# 6.5 UP3 Nozzle (gold) notched	
3	UP3NZ07		# 7 UP3 Nozzle (lime)	
2	UP3NZ075		# 7.5 UP3 Nozzle (lime) notched	
3	UP3NZ08		# 8 UP3 Nozzle (lavender)	
3	UP3NZ085		# 8.5 UP3 Nozzle (lavender) notched	
3	UP3NZ09		# 9 UP3 Nozzle (grey)	
3	UP3NZ095		# 9.5 UP3 Nozzle (grey) notched	
4	UP3NZ10		#10 UP3 Nozzle (turquoise)	
3	UP3NZ105		#10.5 UP3 Nozzle (turquoise) notched	
4	UP3NZ11		#11 UP3 Nozzle (yellow)	
4	UP3NZ115		#11.5 UP3 Nozzle (yellow) notched	
2	UP3NZ12		#12 UP3 Nozzle (red)	
4	UP3NZ125		#12.5 UP3 Nozzle (red) notched	
7	UP3NZ13		#13 UP3 Nozzle (white)	
5	UP3NZ135		#13.5 UP3 Nozzle (white) notched	
5	UP3NZ14		#14 UP3 Nozzle (blue)	
2	UP3NZ145		#14.5 UP3 Nozzle (blue) notched	
6	UP3NZ15		#15 UP3 Nozzle (brown)	
5	UP3NZ155		#15.5 UP3 Nozzle (brown) notched	
7	UP3NZ16		#16 UP3 Nozzle (orange)	
6	UP3NZ165		#16.5 UP3 Nozzle (orange) notched	
4	UP3NZ17		#17 UP3 Nozzle (dark green)	
5	UP3NZ175		#17.5 UP3 Nozzle (dark green) notche	
6	UP3NZ18		#18 UP3 Nozzle (purple)	
9	UP3NZ185		#18.5 UP3 Nozzle (purple) notched	
4	UP3NZ19		#19 UP3 Nozzle (black)	

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BI	LL of MATERIALS - Hydra	aulic Components		
Qty	PartNumber	Cost	Description	
4	UP3NZ195		#19.5 UP3 Nozzle (black) notched	
1	UP3NZ22		#22 UP3 Nozzle (maroon)	
1	UP3NZ225		#22.5 UP3 Nozzle (maroon) notched	
128	PSR103F3F		REGULATOR, SENN, PSR, 10 PSI	
649	Total			

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BILL of MATERIALS - Drop Components

Qty

PartNumber

Cost

Description -----

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Customer:

Shawn Nesis Shorty

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	Len		Noz	ATION		Len		Noz			Len		Noz			Len		Noz			Ler	3	Noz	
Out		Pos		Reg	Outi		Pos		Reg	Out		Pos		Reg	Out#		Pos		Reg	Ou	t#	Po		Reg
					48	116	14	7	PSR-10	13					61					24				
2					49					14	108	27	9	PSR-10	62	107	43	11.5	PSR-10	25				
3					50					15					63					26		55	13	PSR-10
4					51	114	15	7	PSR-10	16					64					27				
5					52					17	110	28	9.5	PSR-10	65	104	44	11.5	PSR-10	28				
6					53					18					66					29		56	13	PSR-10
7					54	112	16	7	PSR-10	19					67					30				
8					55					20	113	29	9.5	PSR-10	68	101	45	11.5	PSR-10	31				
9	104	1	6	PSR-10	56					21					69					32	118	57	13	PSR-10
10	101	-	.0	151(10	57	110	17	7.5	PSR-10	22					70					33				
11					58					23	115	30	9.5	PSR-10	71	98	46	13	PSR-10	34				
12	107	2	6	PSR-10	59					24					72					35	119	58	13	PSR-10
13	107	~	•	101110	60	108	18	7.5	PSR-10	25					73					36				
14					61					26	116	31	10	PSR-10		Drop :	Summa	rv		37				
15	110	3	6	PSR-10	62					27						-		-		38	119	59	13.5	PSR-10
16			•	101110	63	105	19	8	PSR-10	28					96x		98x1	99x1		39				
17					64					29	117	32	10	PSR-10	101x		02x1	104x1		40				
18	112	4	6	PSR-10	65					30					105x		07x1	108x1		41	119	60	13.5	PSR-10
19			•	1011 10	66	102	20	8	PSR-10	31					109x		10x1	112x1		42				
20					67					32	118	33	10	PSR-10	113x		l4x1	115x1		43				
21	114	5	6	PSR-10	68					33					116x		L7x2	118x2		44	118	61	13.5	PSR-10
22				101110	69	99	21	8	PSR-10	34					119x	3				45				
23					70					35	119	34	10	PSR-10						46				
24	116	6	6	PSR-10	71					36						Towe	er No.	2		47	117	62	13.5	PSR-10
25			•	101110	72	96	22	8.5	PSR-10	37								Ţ.		48				
26					73					38	119	35	10.5	PSR-10	1	06	47		DCD 40	49				
27	117	7	6	PSR-10		Drop	Summa	ry		39					2	96	4/	13	PSR-10	50	116	63	14	PSR-10
28					96x	-1	99x1	102x1		40					3					51				
29					104x		05x1	102x1		41	119	36	10.5	PSR-10	4	00	40	4.0	DOD 40	52				
30	118	8	6	PSR-10	104x		10x2	112x2		42					5	99	48	12	PSR-10	53		64	14	PSR-10
31			7		108x		16x2	117x2		43					6					54				
32					114x		19x3	11/X2		44	118	37	10.5	PSR-10	7	100	40	4.0	DCD 40	55				
33	119	9	6	PSR-10	TIOX	.2 1.	IJKJ			45					8	102	49	12	PSR-10	56		65	14	PSR-10
34			181	200						46					9					57				
35						Tow	er No	. 1		47	117	38	11	PSR-10	10	105		40.5	DCD 40	58				
36	119	10	6	PSR-10						48					11	105	50	12.5	PSR-10	59	109	66	14	PSR-10
37					1	06	22	0.5	DCD 10	49					12					60				
38					2	96	23	8.5	PSR-10	50	116	39	11	PSR-10	13	100		40.5	DCD 40	61				
39	119	11	6	PSR-10	3					51					14	108	51	12.5	PSR-10	62	107	67	14	PSR-10
40			-		4	00	2.4	0.5	DCD 40	52					15					63				
41					5	99	24	8.5	PSR-10	53	114	40	11	PSR-10	16				ALULY S	64				
42	118	12	6.5	PSR-10	6					54					17	110	52	12.5	PSR-10	65	104	68	14.5	PSR-10
43	110	12	0.5	131(10	7	4.00		_		55					18					66				
44					8	102	25	9	PSR-10	56	112	41	11	PSR-10	19					67				
	117	13	6.5	PSR-10	9					57					20	113	53	12.5	PSR-10	68	101	69	14.5	PSR-10
			3.3	. 511 10	10					58					21					69				
45						405	20	•	DCD 10															
					11 12	105	26	9	PSR-10	59	109	42	11.5	PSR-10	22 23	115		13	PSR-10	70				

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Shawn Nesis Shorty

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I	Len		Noz			Len		Noz			Len		Noz			Len		Noz			Len		Noz	
t#		Pos		Reg	Out	#	Pos		Reg	Out#		Pos		Reg	Out	#	Pos		Reg	Out#		Pos		Reg
					35	119	82	15.5	PSR-10						46									
					36						Towe	er No.	4		47	121	110	18.5	PSR-10		Tow	er No.	5	
- Dr	rop S	Summa	у		37						1000	. 140.	-		48					1				
6x1	9	98x1	99x1		38	119	83	16	PSR-10	1		1		المراجعة المحادات	49	1.2				2	95	122	22.5	PSR-10
1x1		2x1	104x1		39					2	96	95	18.5	PSR-10	50	121	111	18.5	PSR-10	3	,,	122	22.5	151(10
5x1		7x1	109x1		40	7.00				3					51					4				
9x1		0x1	112x1		41	119	84	16	PSR-10	4		12.			52				505 40	5	95	123	19.5	PSR-10
3x1		4x1	115x1		42					5	99	96	17	PSR-10	53	120	112	18.5	PSR-10	6	,,,	123	13.3	151(10
6x2		7x2	118x2		43					6					54					7				
9x3		- / AL	IIONE		44	118	85	16	PSR-10	7		22			55					8	95	124	19.5	PSR-10
220					45					8	102	97	17	PSR-10	56	118	113	18.5	PSR-10	9	55	124	15.5	151(10
					46	11 30				9					57					10				
1	Towe	er No.	3		47	117	86	16	PSR-10	10			555		58	1000		122	144.000	11	95	125	195	PSR-10
					48					11	105	98	17	PSR-10	59	116	114	18.5	PSR-10	12	,,,	123	13.5	1511
100	96	71	16	PSR-10	49	14-				12					60					13				
	50	, 1	10	TOR TO	50	116	87	16	PSR-10	13					61					14	95	126	19 5	PSR-10
					51					14	108	99	17.5	PSR-10	62	114	115	18.5	PSR-10	15	,,	120	13.3	151(1)
1	99	72	15	PSR-10	52				112 12	15					63					16				
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					54					17	111	100	17.5	PSR-10	65	112	116	18.5	PSR-10	18	,,,	12,		1011
1	102	73	15	PSR-10	55	440		46.5	202 40	18					66					19	95	128	13.5	PSR-10
	.02	, 5	13	131(10	56	112	89	16.5	PSR-10	19	440	101	47.5	DCD 10	67	110	447	10	DCD 10					
					57					20	113	101	17.5	PSR-10	68	110	117	19	PSR-10			hang		
	105	74	15	PSR-10	58	100	00	46.5	DCD 10	21					69					1)rop	Summar	У	
٠,٠		,			59	109	90	16.5	PSR-10	22	115	100	17.5	DCD 10	70	107	110	10	DCD 10	95x7	, ,			
					60					23	115	102	17.5	PSR-10	71	107	118	19	PSR-10					
	108	75	15	PSR-10	61	107	01	16.5	DCD 10	24					72 73						Dron	Total		
					62	107	91	16.5	PSR-10	25	117	102	17 F	DCD 10	74	104	110	10	PSR-10		-			
					63					26 27	117	103	17.5	PSR-10	75	104	119	19	P3K-10	95x		96x5	98x4	
	110	76	15	PSR-10	64 65	104	0.2	16 E	DCD 10						76					99x5		01x4	102x5	
			7-		66	104	92	16.5	PSR-10	28 29	119	104	10	PSR-10	77	101	120	10	PSR-10	104x5		05x5	107x5	
										30	119	104	10	F3K-10	78	101	120	19	F3K-10	108x5		09x3	110x6	
1	113	77	15	PSR-10	67 68	101	03	16.5	PSR-10	31					78 79					111x1		12x6	113x4	
					69	101	93	10.5	L 2K-10	32	120	105	1.0	PSR-10	80	98	121	22	PSR-10	114x6		15x4	116x9	
					70					33	120	103	10	L2K-10	81	90	121	22	L2K-10	117x9		18x9	119x1	
	115	78	15.5	PSR-10	71	98	04	18.5	PSR-10	34					82					120x2	12	21x3	122x3	
					72	30	34	10.5	131-10	35	121	106	18	PSR-10		D	Q							
					73					36	121	100	10	151(10		Drop :	Summaı	У						
1	116	79	15.5	PSR-10			_			37					96x	:1 9	8x1	99x1						
						Drop S	Summa	ry		38	122	107	18	PSR-10	101x	1 10	2x1	104x1						
					96x	:1 9	8x1	99x1		39	122	107	10	. 511 10	105x		7x1	108x1						
1	117	80	15.5	PSR-10	101x	1 10	2x1	104x1		40					110x	1 11	1x1	112x1						
					105x	1 10	7x1	108x1		41	122	108	18	PSR-10	113x		4x1	115x1						
					109x	1 11	0x1	112x1		42		100	20	. 511 10	116x	1 11	7x1	118x1						
1	118	81	15.5	PSR-10	113x		4x1	115x1		43					119x		20x2	121x3	3					
					116x	2 11	7x2	118x2		44	122	109	18	PSR-10	122x	:3								
					119x	3				45	122	103	10	JIV IU										

6/10/24 (Date)

Kansas Department of Agriculture Division of Water Resources Earl D. Lewis, Jr., Chief Engineer 1320 Research Park Drive Manhattan, Kansas 66502

JUN 27 2024

Re:	Application File No.	KS Dept. of Agricultur

Minimum Desirable Streamflow

I understand that a Minimum Desirable Streamflow requirement has been established by the legislature for the source of supply to which the above referenced application applies.

I understand that diversion of water pursuant to this application will be subject to regulation any time Minimum Desirable Streamflow requirements are not being met.

I also 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. I realize that this could affect the economics of my decision to appropriate water.

I am aware of the above factors, and with the knowledge thereof, request that the Division of Water Resources proceed with processing and approval, if possible, of the above referenced application.

Signature of Applicant

State of Kansas

) SHAWN NEISES

(Print Applicant's Name)

I hereby certify that the foregoing instrument was signed in my presence and sworn to before me this 10^{+1} day of 5, 20.

Michol & Clinter Notary Public

My Commission Expires:

MICHAEL J. CLINTON

Notary Public - State of Kansas

My Appt. Expires 5 27 - 25

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

July 22, 2024

SHAWN NEISES 380 SE 70TH ST KINGMAN KS 67068

RE: Application, File No(s). 51257

Dear Sir or Madam:

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

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

Additional information about the process may be found on our website at <u>agriculture.ks.gov/divisions-programs/dwr</u>. If you have any other questions, please contact our office at 785-564-6640 or your local Stafford Field Office at 620-234-5311. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Kris Neuhauser New Applications Lead Water Appropriation Program