Pacific Hydro-Geology Inc.

Memo

To:

Dennis Orlowski

From:

Greg Kupillas

CC:

Date:

May 15, 2018

Re:

Geologist Report to Accompany an Application for Permanent Water Right Transfer



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Introduction

Blue Line Farms Inc. proposes to change the points of diversion for several water rights (Certificates 20574, 67686, 64713, 75598, 75599, 87460, 87461, and 87462) from the currently authorized points of diversion (PODs) on Abiqua Creek to a ground water point of appropriation (POA) in a nearby sump. The sump can be described as a pond which remains as the remnant of a previously mined gravel pit. The sump is located south of Abiqua Creek, with its nearest edge about 250 feet from the creek, as shown on Figure 1, attached to this memorandum. Each of the water rights affected by the transfer obtains water from one of two points of diversion on Abiqua Creek. The distances from the surface water PODs to the ground water source (i.e., the nearest edge of the sump) fall inside the limits defined in rule (OAR 690-380-2130(2)(d)) which would trigger the need to have a geologist complete a report to document the change would affect the river "similarly" as defined in rule (OAR 690-380-2130(11)(b)). Therefore, based solely on the distances from the authorized PODs and the nearest edge of the sump, the geologist report would not be necessary.

However, the specific proposed POA, which is the existing pump station on the sump serving as the POA for Certificate 87452, is in a location which is greater than the statutory distances from the authorized PODs. Staff from the Transfer Section have interpreted the applicable rules (OARs 690-380-0100(6) and 690-380-2130(2)(d)) to indicate that the requirement for a geologist report is dependent only on the distance between the authorized POD and the proposed POA.

I have discussed the foregoing with you and I believe we are in agreement on the following points:

- It is appropriate to include a geologist report in some form with the transfer application;
- Evaluation of the effects from pumping at the proposed POA would ultimately be based on the impacts to the stream from the edge of the sump, which, as described above, fall within the statutory distances;
- The relatively simple analytical models which are typically used for evaluating stream depletion, such as the Jenkins model (1968) and Hunt models (1999 and 2003), may be

appropriate for assessing impacts from pumping wells, but are not suited for simulating discharge from a sump.

Given the points discussed above, it is reasonable to conclude that a stream depletion analysis using an analytical model is not practical, nor is it necessary since the proposed change in the water right will affect the stream from the edges of the sump, which are within the statutory distances from the authorized PODs. Nevertheless, you have requested that we provide an assessment of the hydraulic connection between the sump and Abiqua Creek.

Hydraulic Connection Between Sump and Abiqua Creek

The property occupied by the sump was previously owned by Tom Pembroke at the time when the gravel mining operations were in progress. Through a telephone interview, Mr. Pembroke was able to provide information on the nature of the material that was mined from the excavation, and of the reclamation activities following completion of mining activities. The information provided by Mr. Pembroke allow for a qualitative assessment of the hydraulic connection between the sump and Abiqua Creek.

Mr. Pembroke stated that the material mined from the excavation consisted of rounded gravel in a matrix consisting mainly of sand, with lessor amounts of fines (silt and clay). The gravels were excavated to maximum depths of about 30 feet. Mr. Pembroke indicated that the pit required dewatering when excavating below the water table. The gravels removed from the excavation were washed on site to remove the sand and finer fractions. A portion of the excavation was reclaimed by filling with the sandy material accumulated from the gravel washing process, along with some material imported onto the site. The remaining sump reportedly has an uneven bottom with a maximum depth of about 30 feet, and average depth of around 25 feet.

A review of Google Earth aerial photographs dating back to 1994 reveals that gravel quarrying activities were mostly completed within the existing sump, and to the west between the sump and Abiqua Creek, by 1994. It appears from the photos that most of the area extending west from the existing sump to within a few tens of feet of the bank of Abiqua Creek was mined and reclaimed. According to Mr. Pembroke, the band of ground between the northern-most extent of the existing sump and the creek was never mined. It also appears from the aerial photographs that the ground extending due west from the panhandle of the existing sump was also not mined. A figure showing the approximate extent of the reclaimed gravel quarry between the existing sump and Abiqua Creek is included as an attachment to this memorandum (Figure 1.)

Summary

The evidence obtained from our interview with the previous property owner, and a review of aerial photographs provides the following information about the hydraulic connection between the existing sump and Abiqua Creek:

- The native material consisted of sandy gravel deposits, which are likely highly permeable;
- Gravel mining below the water table required dewatering, providing further information suggesting the permeable nature of the gravel;
- Much of the reclaimed area was filled with the same sandy matrix material present in the undisturbed gravel;



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 Areas of highly permeable, undisturbed gravel deposits remain in between the sump and the authorized points of diversion on Abiqua Creek.

Based on these factors, it is reasonable to conclude that there is a strong hydraulic connection between the existing sump and Abiqua Creek, and that discharging ground water from the sump at the proposed new point of appropriation will affect Abiqua Creek similarly.

References

Hunt, B., 1999, Unsteady stream depletion from ground water pumping: Ground Water, v. 37, no. 1, p. 98-102.

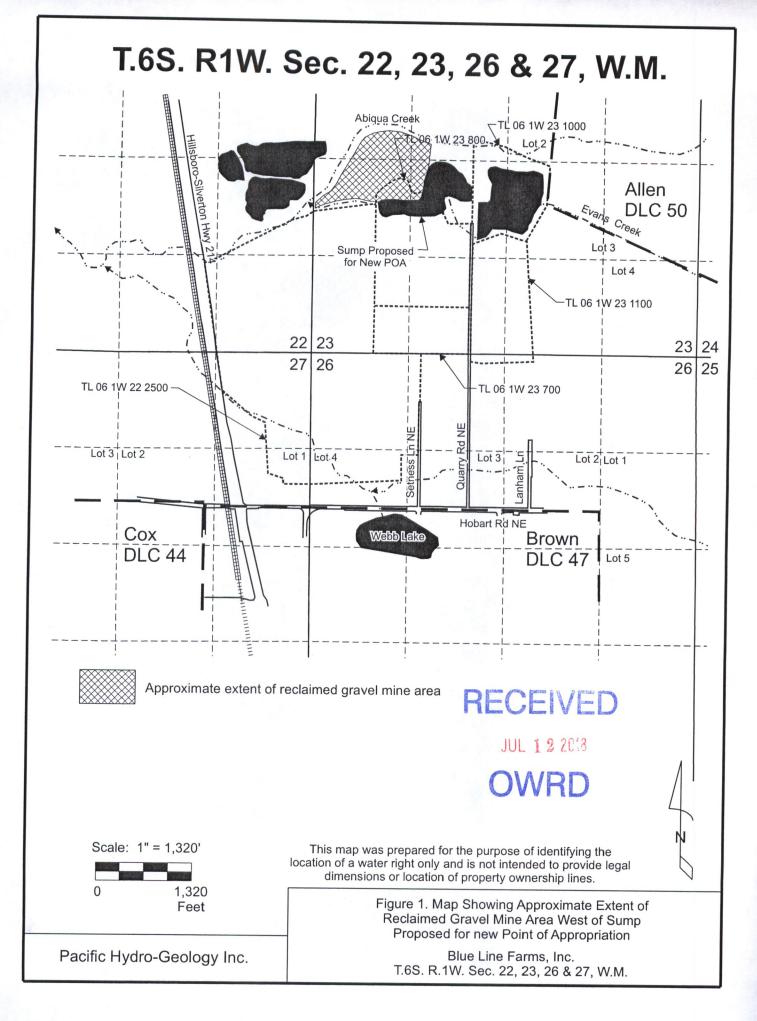
Hunt, B., 2003, Unsteady stream depletion when pumping from semiconfined aquifer: Journal of Hydrologic Engineering, January/February, 2003.

Jenkins, C. T., 1968, Techniques for computing rate and volume of stream depletion by wells: Ground Water, v. 6, no. 2, p. 37-46.

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State of Oregon

Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900

Application for Permanent Water Right Transfer

Part 1 of 5 – Minimum Requirements Checklist

This transfer application will be returned if Parts 1 through 5 and all required attachments are not completed and included.

For questions, please call (503) 986-0900, and ask for Transfer Section.

Cno	eck an ite	ems included with this application. (N/A = Not Applicable)
\boxtimes		Part 1 – Completed Minimum Requirements Checklist. JUL 1 2 2018
\boxtimes		Part 2 – Completed Transfer Application Map Checklist.
		Part 3 – Application Fee, payable by check to the Oregon Water Resources Department, and completed Fee Worksheet, page 3. Try the new online fee calculator at: http://apps.wrd.state.or.us/apps/misc/wrd_fee_calculator . If you have questions, call Customer Service at (503) 986-0801.
\boxtimes		Part 4 – Completed Applicant Information and Signature.
		Part 5 – Information about Water Rights to be transferred: How many water rights are to be transferred? <u>8</u> List them here: <u>Certificate: 20574, 64713, 67686, 75598, 75599, 87460, 87461, and 87462.</u> Please include a separate Part 5 for each water right. (See instructions on page 6)
		Attachments:
\boxtimes		Completed Transfer Application Map.
\boxtimes		Completed Evidence of Use Affidavit and supporting documentation.
	N/A	Affidavit(s) of Consent from Landowner(s) (if the applicant does not own the land the water right is on.)
	N/A	Supplemental Form D – For water rights served by or issued in the name of an irrigation district. Complete when the transfer applicant is not the irrigation district.
	N/A	Land Use Information Form with approval and signature (or signed land use form receipt stub). Not required if water is to be diverted, conveyed, and/or used only on federal lands or if all of the following apply: a) a change in place of use only, b) no structural changes, c) the use of water is for irrigation only, and d) the use is located within an irrigation district or an exclusive farm use zone.
	N/A	Water Well Report/Well Log for changes in point(s) of appropriation (well(s)) or additional point(s) of appropriation.
	□ N/A	Geologist Report for a change from a surface water point of diversion to a ground water point of appropriation (well), if the proposed well is more than 500' from the surface water source and more than 1000' upstream or downstream from the point of diversion. See OAR 690-380-2130 for requirements and applicability.
		(For Staff Use Only)
		WE ARE RETURNING YOUR APPLICATION FOR THE FOLLOWING REASON(S): Application fee not enclosed/insufficient Map not included or incomplete Land Use Form not enclosed or incomplete Additional signature(s) required Part is incomplete
		Other/Explanation

Your transfer application will be returned if any of the map requirements listed below are not met.

	Please be matches	e sure that the transfer application map you submit includes all the required items and the existing water right map. Check all boxes that apply.
	N/A	Certified Water Right Examiner (CWRE) Stamp and Original Signature. For a list of CWREs, see http://apps.wrd.state.or.us/apps/wr/cwre_license_view/ . CWRE stamp and signature are not required for substitutions.
\boxtimes	N/A	If more than three water rights are involved, separate maps are needed for each water right. Permanent quality printed with dark ink on good quality paper.
\boxtimes		Permanent quality printed with dark ink on good quality paper.
		The size of the map can be $8\frac{1}{2} \times 11$ inches, $8\frac{1}{2} \times 14$ inches, 11×17 inches, one extra copy is required.
\boxtimes		A north arrow, a legend, and scale.
		The scale of the map must be: $1 \text{ inch} = 400 \text{ feet}$, $1 \text{ inch} = 1,320 \text{ feet}$, the scale of the Final Proof/Claim of Beneficial Use Map (the map used when the permit was certificated), the scale of the county assessor map if the scale is not smaller than $1 \text{ inch} = 1,320 \text{ feet}$, or a scale that has been pre-approved by the Department.
		Township, Range, Section, 1/4 1/4, DLC, Government Lot, and other recognized public land survey lines.
\boxtimes		Tax lot boundaries (property lines) are required. Tax lot numbers are recommended.
		Major physical features including rivers and creeks showing direction of flow, lakes and reservoirs, roads, and railroads.
		Major water delivery system features from the point(s) of diversion/appropriation such as main pipelines, canals, and ditches.
		Existing place of use that includes separate hachuring for each water right, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions. If less than the entirety of the water right is being changed, a separate hachuring is needed for lands left unchanged.
	N/A N/A	Proposed place of use that includes separate hachuring for each water right, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions.
		Existing point(s) of diversion or well(s) with distance and bearing or coordinates from a recognized survey corner. This information can be found in your water right certificate or permit.
		If you are proposing a change in point(s) of diversion or well(s), show the proposed location and label it clearly with distance and bearing or coordinates. If GPS coordinates are used, latitude-longitude coordinates may be expressed as either degrees-minutes-seconds with at least one digit after the decimal (example $-42^{\circ}32^{\circ}15.5^{\circ}$) or degrees-decimal with five or more digits after the decimal (example -42.53764°).

	FEE WORKSHEET for PERMANENT TRANSFER Part 3 of	5 - Foo	Worksho
1	Base Fee (includes one type of change to one water right for up to 1 cfs)	J - Fee	worksnee
	Types of change proposed:		\$1,160
	Place of Use		V L
	Character of Use	1111 46	2040
	Point of Diversion/Appropriation	JUL 12	2018
	Number of above boxes checked = $1(2a)$	NA /	
	Subtract 1 from the number in line $2a = \frac{1}{1} \frac{(2b)}{(2b)}$ If only one change, this will be 0		KU
2	With the 2b by \$930 and enter » » » » » » » » » » » » » » » » » » »	2	\$0
	runnoct of water rights included in transfer 8 (3a)		\$0
	Subtract 1 from the number in 3a above: 7 (3b) If only one water right this will		
3			
3	Multiply line 3b by \$520 and enter » » » » » » » » » » » » » » » » » » »	3	\$3,640
	Do you propose to add or change a well, or change from a surface water POD to a well?		
4	No: enter 0 »» » » » » » » » » » » » » » » » » »		
	Yes: enter \$410 » » » » » » » » » » » » » » » » » » »	4	\$410
	No: enter 0 on line 5 » » » » » » » » » » » » » » » » » »		
	Yes: enter the cfs for the portions of the rights to be transferred (see		
	example below*): (5a)		12
	Subtract 1.0 from the number in 5a above: (5b)		
	If 5b is 0 or less, enter 0 on line 5 » » » » » » » » » » » » » » » » » »		
	11 30 is greater than 0, round up to the nearest whole number: (5a)		
5	and multiply 5c by \$350, then enter on line 5 " " " " " " " " " " " " " " " " " "	5	\$0
6	Add entries on lines I through 5 above " " " " " " " " " " " " " Subtotal:	6	\$5,210
	is this transfer:		\$3,210
	necessary to complete a project funded by the Oregon Watershed		
	Ennancement Board (OWEB) under ORS 541 9322		
	in endorsed in writing by ODFW as a change that will result in a net		
	benefit to fish and wildlife habitat?		
7	If one or more boxes is checked, multiply line 6 by 0.5 and enter on line 7 »		
8	If no box is applicable, enter 0 on line 7» » » » » » » » » » » » » » » » » » »	7	\$0
	Subtract line 7 from line 6 » » » » » » » » » » » » » » » Transfer Fee:	8	\$5,210

*Example for Line 5a calculation to transfer 45.0 acres of Primary Certificate 12345 (total 1.25 cfs for 100 acres) and 45.0 acres of Supplemental Certificate 87654 (1/80 cfs per acre) on the same land:

1. For irrigation calculate cfs for each water right involved as follows:

a. Divide total authorized cfs by total acres in the water right (for C12345, 1.25 cfs \div 100 ac); then multiply by the number of acres to be transferred to get the transfer cfs (x 45 ac = 0.56 cfs).

b. If the water right certificate does not list total cfs, but identifies the allowable use as 1/40 or 1/80 of a cfs per acre; multiply number of acres proposed for change by either 0.025 (1/40) or 0.0125 (1/80). (For C87654, 45.0 ac x 0.0125 cfs/ac = 0.56 cfs)

2. Add cfs for the portions of water rights on all the land included in the transfer; however do not count cfs for supplemental rights on acreage for which you have already calculated the cfs fee for the primary right on the same land. The fee should be assessed only once for each "on the ground" acre included in the transfer. (In this example, blank 5a would be only 0.56 cfs, since both rights serve the same 45.0 acres. Blank 5b would be 0 and Line 5 would then also become 0).

\$ 2 M	FEE WORKSHEET for SUBSTITUTION		
1	Base Fee (includes change to one well)	1	\$840.00
	Number of wells included in substitution(2a)	1	\$840.00
	Subtract 1 from the number in 3a above: (2b) If only one well this will be 0		
2	Multiply line 2b by \$410 and enter » » » » » » » » » » » » » » » » »	2	
3	Add entries on lines 1 through 2 above » » » » » Fee for Substitution:		27.
	reading above """ " " " " " Fee for Substitution:	3	l NA

Part 4 of 5 - Applicant Information and Signature

Applicant Informatio	plicant Information	oplicant Information	Ai	F
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APPLICANT/BUSINESS NAME		PHONE NO.	ADDITIONAL CONTACT NO.					
Blue Line Farms Inc. c/o Bob l		(503) 508-3652	ADDITIONAL CONTACT NO.					
ADDRESS Karl Dethuyler			(603) 932-1948	FAX NO.				
4741 Brush Creek Drive NE		77 7 27 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7						
CITY	CITY STATE ZIP			E-MAIL				
Silverton	OR	97381						
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE								
DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED								

Agent Information – The agent is authorized to represent the applicant in all matters relating to this application.

			the applicant in an int	itters relating to this applicat			
AGENT/BUSINESS NAME		PHONE NO.	ADDITIONAL CONTACT NO.				
Greg E. Kupillas		(503) 632-5016 (503) 939-3167 (cell)					
ADDRESS		FAX NO.					
18487 S. Valley Vista Road		(503) 632-5983					
CITY	STATE	E-MAIL					
Mulino OR 97042 phggek@bctonline.com							
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.							
Explain in your own words							

Explain in your own words what you propose to accomplish with this transfer application, and why: We would like to complete a transfer involving several surface water rights on the Abiqua River to change their points of diversion to a ground water point of appropriation in order to be able to irrigate all of the lands covered by these rights from a single pumping station in a sump located adjacent to the river.

If you need additional space, continue on a separate piece of paper and attach to the application as "Attachme
Check this box if this project is fully or partially funded by the American Recovery and

Ш	Check this box if this project is fully or partially funded by the American Recovery and
	Reinvestment Act. (Federal stimulus dollars)
	(

	Check One Dox	
\boxtimes	By signing this application, I understand that, upon receipt of the draft preliminary determination and Department approval of the transfer, I will be required to provide landownership information and every contract of the transfer of the draft preliminary determination and every contract of the draft prelimination and every	d prior to
	Department approval of the transfer, I will be required to provide landownership information and ev	idence that I am
	authorized to pursue the transfer as identified in OAR 690-380-4010(5); OR	
	I affirm the applicant is a municipality as defined in ORS 540.510(3)(b) and that the right is in the	JUL 1 2 2018
	name of the municipality on a made access OD	JUL 1 2 2010

Check One Roy

name of the municipality or a predecessor; OR I affirm the applicant is an entity with the authority to condemn property and is acquiring by condemnation the property to which the water right proposed for transfer is appurtenant and have supporting documentation.

I understand that prior to Department approval of the transfer application, I may be required to submit payment to the Department for publication of a notice in a newspaper with general circulation in the area where the water right is located, once per week for two consecutive weeks. If more than one qualifying newspaper is available, I suggest publishing the notice in the following newspaper: Silverton Appeal

I (we) affirm that the information contained in this application is true and accurate.



Is the applicant the sole owner of the land on which the water right, or portion thereof, proposed for transfer is located?

Yes No If NO, include signatures of all deeded landowners (and mailing

and/or e-mail addresses if different than the applicant's) or attach affidavits of consent (and mailing and/or mail addresses) from all landowners or individuals/entities to which the water right(s) were conveyed.										
Check the following boxes that apply:										
The applicant is responsible for completion of change(s). Notices and correspondence should continue to be sent to the applicant.										
The receiving landowner will be responsible for completing the proposed change(s) after the final order is issued. Copies of notices and correspondence should be sent to this landowner.										
Both the receiving landowner and applicant will be responsible for completion of change(s). Copies of notices and correspondence should be sent to this landowner and the applicant.										
At this time, are the lands in										
If YES, and you know who the new landowner will be, please complete the receiving landowner information table below. If you do not know who the new landowner will be, then a request for assignment will have to be filed for at a later date.										
uniess a sale agreement o	If a property sells, the certificated water right(s) located on the land belong to the new owner, unless a sale agreement or other document states otherwise. For more information see: http://www.oregon.gov/owrd/docs/transfer-propertytransactions.pdf									
RECEIVING LANDOWNER NAME NA				PHONE NO.	ADDITIONAL CONTACT NO.					
ADDRESS					FAX NO.					
CITY	STATE	ZIP	E-MAIL		RECEIVED					
Describe any special ownersh	nip circu	mstances	s here: N	<u>A</u>	JUL 1 2 2018					
Check here if any of the wan irrigation or other water	vater righ er distric	nts propo t. (Tip: (osed for t	ransfer are or will e and attach Supi	be located within reerved by plemental Form D.)					
IRRIGATION DISTRICT NAME			ADDRESS							
NA CITY			STATE		ZIP					
Check here if water for an for stored water with a fed	y of the leral age	rights su ncy or of	pplied un ther entit	nder a water servic y.	e agreement or other contract					
ENTITY NAME NA		ADDRESS								
СІТУ			STATE ZIP							
To meet State Land Use Consistency Requirements, you must list all county, city, municipal corporation, or tribal governments within whose jurisdiction water will be diverted, conveyed or used.										
ENTITY NAME Marion County Planning Division		ADDRESS 5155 Silverton Road NE								
CITY Salem			STATE ZIP 973055							

F	lease use a separate Part 5 for each water right being changed. See instructions on page 6, to opy and paste additional Part 5s, or to add additional rows to tables within the form.										
								# <u>2057</u>			RECEIVED
Description of Water Delivery System											
System capacity: <u>0.285</u> cubic feet per second (cfs) OR											
	_	gallons p									OWRD
Describe the current water delivery system or the system that was in place at sometime within the last											
five years. Include information on the pumps, canals, pipelines, and sprinklers used to divert, convey, and apply the water at the authorized place of use. Water is conveyed from a 30 Hp centrifugal pump from A bigue. West POD through 6 in the state of the second of t											
110	in Abiqua West I	torough	101	nch	maii	n line	with	hydre	nte w	here w	heel lines or hard hose
tra	veiers can be atta	iched to irrig	ate	row	cro	ps or	grass	seeds	<u>.</u>		
Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA) (Note: If the POD/POA name is not specified on the certificate, assign it a name or number here.)											
POD/PO.	POD/POA POD/POA OWRD Well Tax								Measured Distances (from a recognized		
Abiqua West PO Certifica 20574	D Authorized	NA	6	S	1	W	22	NE	SE	TL 2500	No measurements listed
POA Pon Sump	d ☐ Authorized ☐ Proposed	NA	6	S	1	w	23	NW	SW	TL 800	1,875 feet north and 965 feet east from the SW corner, Section 23.
	☐ Authorized ☐ Proposed										sounds, section 25.
Che			pos	ed b	elow	/ (cha	ange "	COD	ES" a	re prov	vided in parentheses):
Į	Place of Use							upple	mental	Use to	Primary Use (S to P)
Į.	Character of						P	oint o	f Appr	opriatio	on/Well (POA)
Ĺ		ersion (POD)					A	dditio	nal Po	int of A	Appropriation (APOA)
L		oint of Divers					S	ubstitu	ution (SUB)	
	Surface Water POA (SW/G)	er POD to Gro W)	ounc	d Wa	ter		G	overn	ment A	Action 1	POD (GOV)
Will	all of the propos	ed changes a	ffec	t the	ent	ire w	ater r	ight?			
× Y	es Complete on "CODES" lis	ly the Propose ted above to	ed (' desc	'to'' o	or "o	n" la oropo	nds) s	ection	of Ta	ble 2 or	n the next page. Use the
	lo Complete all							_		ht to be	changed.

Do you have questions about how to fill-out the tables? Contact the Department at 503-986-0900 and ask for Transfer Staff.

Table 2. Description of Changes to Water Right Certificate # 20574

List the change proposed for the acreage in each ½ ¼. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

The	e listir L	ng tha	t appears of	on the	certifi	cate BE	or "off" land FORE PROPERTIES.	nds) POSED CHA	ANGES	Proposed Changes (see			Tł	ne lis	sting	PR as it	ROPO would	d appe	the "to ar AF" are ma	TER PI	on" lands) ROPOSED	CHANC	GES
Twp	Rng	Sec	1/4 1/4	Tax Lot	Gvt Lot or DLC	Acres	Type of USE listed on Certificate	POD(s) or POA(s) (name or number from Table 1)	Priority Date	"CODES" from previous page)	Т	wp	R	ng	Sec	1/4	1/4	Tax Lot	Gvt Lot or DLC		New Type of USE	POD(s)/ POA(s) to be used (from Table 1)	Priority Date
	_									SW/GW	6	S	1	W	22	NE	SE	2500	NA	6.0	IR	Pond Sump	11-28-39
										SW/GW	6	S	1	W	22	SE	SE	2500	NA	6.4	IR	Pond Sump	11-28-39
+										SW/GW	6	S	1	W	23	NW	sw	2500	NA	3.8	IR	Pond Sump	11-28-39
+	-									SW/GW	6	S	1	W	23	sw	sw	2500	NA	6.6	IR	Pond Sump	11-28-39
+	+																						
	+																						
												+	_										
\dagger												+											
			TOTA	L ACR	ES:											 T	OTAI	L ACR	ES:	22.8			



For Place of Use or Character of Use Changes: NA

Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands? \square Yes \square No \boxtimes NA

If YES, list the certificate, water use permit, or ground water registration numbers: NA.

Pursuant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application.

For Substitution (ground water supplemental irrigation will be substituted for surface water primary irrigation)

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Ground water supplemental Permit or Certificate # <u>NA</u>; Surface water primary Certificate # <u>NA</u>.

JUL 1 2 2018

For a change from Supplemental Irrigation Use to Primary Irrigation Use

Identify the primary certificate to be cancelled. Certificate # \underline{NA}

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For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:

Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map.

Tip: You may search for well logs on the Department's web page at: http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx

AND/OR

Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

Table 3. Construction of Point(s) of Appropriation

POA Pond Sump	Yes	NA	30 feet	NA	NA	NA	NA	NA	Near- Surface Gravels	NA
Proposed or Authorized POA Name or Number	Is well already built? ((Yes or No)	If an existing well: OWRD Well ID Tag No. L-	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well -specific rate (cfs or gpm). If less han full rate of water right

Plea	ise use a separat	te Part 5 for e	ach	wate	er rig	ght be	eing ch	nangeo	d. See	instruct	ions on page 6, to				
copy	y and paste addi	tional Part 5s	s, or	to a	dd ad	dditio	nal ro	ws to	tables	within	the form.				
D					RTI	IFIC	ATE #	# <u>6471</u>	3	8	ILOLIVED				
	ription of Wate										JUL 1 2 2018				
Syster	m capacity:						OR				OMED				
D		0 gallons per									OWRD				
Descr five v	the the current vears. Include int	water deliver	y sy	stem	or tl	he sy	stem t	hat wa	as in p	lace at s	sometime within the last				
and ap	opry the water a	t the authoriz	ed p	lace	of u	se. W	Vater	is con	veved	from a	s used to divert, convey, 30 Hp centrifugal pum				
HOIII .	Abiqua West I	OD through	101	nen	man	1 line	with	hydrs	ante w	here w	heel lines or hard hose				
traver	ers can be atta	cnea to irrig	ate	row	cro	os or	grass	seeds	<u>s.</u>						
Table 1. Lo (Note: If the	Name or Authorized on Log ID# (or DLC Measured Distances														
POD/POA Name or Number	Is this POD/POA	If POA,					Sec			Tax					
Abiqua West POD Certificate 64713	OD/POA Name or Number														
POA Pond Sump	☐ Authorized ☐ Proposed	NA	6	S	1	w	23	NW	SW	TL 800	1,875 feet north and 965 feet east from the SW corner, Section 23.				
	☐ Authorized ☐ Proposed					in the control of the									
Check	all type(s) of c	hange(s) pro	pos	ed b	elow	(cha	ange "	'COD	ES" a	re prov	rided in parentheses):				
								Supple	menta	l Use to	Primary Use (S to P)				
	Character of	Use (USE)					P	oint o	f Appı	opriation	on/Well (POA)				
	Point of Dive	ersion (POD)						Additio	onal Po	oint of A	Appropriation (APOA)				
	Additional Po	oint of Divers	sion	(AP	OD)		\Box S	ubstit	ution (SUB)					
\boxtimes	Surface Wate POA (SW/GV		ounc	d Wa	ter			Govern	ment A	Action 1	POD (GOV)				
Will al	of the propose	ed changes a	ffec	t the	ent	ire w	ater r	right?							
⊠ Yes		y the Propose	ed ('	'to"	or "c	n" la	nds) s	section	of Ta	ble 2 or	the next page. Use the				
☐ No	Complete all									ht to be	changed.				

Do you have questions about how to fill-out the tables? Contact the Department at 503-986-0900 and ask for Transfer Staff.

Table 2. Description of Changes to Water Right Certificate # 64713

List the change proposed for the acreage in each ½ ½. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

Th			hat a	appears o	n the	certific	cate BE	or "off" lan FORE PROI right that wil	POSED CHA	ANGES	Proposed Changes (see			Th	ie lis	sting	PR as it	OPO	appe	the "to ar AF"	TER P	on" lands) ROPOSED	CHANC	GES
Twp	Rng	Se	ec	1/4 1/4	Tax Lot	Gvt Lot or DLC	Acres	Type of USE listed on Certificate	POD(s) or POA(s) (name or number from Table 1)	Priority Date	"CODES" from previous page)	T	wp	R	ng	Sec	1/4	1/4	Tax Lot	Gvt Lot or DLC	Acres	New Type of USE	POD(s)/ POA(s) to be used (from Table 1)	Priority Date
											SW/GW	6	S	1	W	22	SE	SE	2500	NA	23.0	IR	Pond Sump	11-12-87
											SW/GW	6	s	1	W	23	SW	sw	2500	NA	9.0	IR	Pond Sump	11-12-87
											SW/GW	6	s	1	w	26	NE	NW	2500	NA	4.25	IR	Pond Sump	11-12-87
		1									SW/GW	6	s	1	W	26	NW	NW	2500	NA	32.0	IR	Pond Sump	11-12-87
		1									SW/GW	6	s	1	W	26	SW	NW	2500	Lot 4	4.5	IR	Pond Sump	11-12-87
											SW/GW	6	s	1	W	26	SE	NW	2500	Lot 3	0.25	IR	Pond Sump	11-12-87
											SW/GW	6	s	1	W	27	NE	NE	2500	NA	25.0	IR	Pond Sump	11-12-87
											SW/GW	6	S	1	W	27	SE	NE	2500	Lot 1	8.0	IR	Pond Sump	11-12-87
				TOTA	L ACR	ES:											7	OTA	L ACR	ES:	106.0		•	



For Place of Use or Character of Use Changes: NA

Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands? \square Yes \square No \boxtimes NA

If YES, list the certificate, water use permit, or ground water registration numbers: NA.

Pursuant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application.

For Substitution (ground water supplemental irrigation will be substituted for surface water primary irrigation)

RECEIVED

Ground water supplemental Permit or Certificate # <u>NA</u>; Surface water primary Certificate # <u>NA</u>.

JUL 1 2 2018

For a change from Supplemental Irrigation Use to Primary Irrigation Use

Identify the primary certificate to be cancelled. Certificate # NA

OWRD

For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:

Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map.

Tip: You may search for well logs on the Department's web page at: http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx

AND/OR

Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

Table 3. Construction of Point(s) of Appropriation

Proposed or Authorized POA Name or Number	Is well already built? ((Yes or No)	If an existing well: OWRD Well ID Tag No. L	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well -specific rate (cfs or gpm). If less han full rate of water right
POA Pond Sump	Yes	NA	30 feet	NA	NA	NA	NA	NA	Near- Surface Gravel	NA

Please use a separate Part 5 for each water right being changed. See instructions on page 6, to copy and paste additional Part 5s, or to add additional rows to tables within the form.

CERTIFICATE # 67686

RECEIVED

Description of	Water	Delivery	System
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System capacity: 0.47 cubic feet per second (cfs) OR

____ gallons per minute (gpm)

JUL 1 2 2018

Describe the current water delivery system or the system that was in place at sometime within the last five years. Include information on the pumps, canals, pipelines, and sprinklers used to divert, convey, and apply the water at the authorized place of use. Water is conveyed from a 30 Hp centrifugal pump from Abiqua West POD through 6 inch main line with hydrants where wheel lines or hard hose travelers can be attached to irrigate row crops or grass seeds.

Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA) (Note: If the POD/POA name is not specified on the certificate, assign it a name or number here.)

POD/POA Name or Number	Is this POD/POA Authorized on the Certificate or is it Proposed?	If POA, OWRD Well Log ID# (or Well ID Tag # L)	Т	wp	R	lng	Sec	1/4	1/4	Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)
Abiqua West POD Certificate 67686	□ Authorized □ Proposed	NA	6	S	1	W	22	NE	SE	TL 2500	1,840 feet north and 380 feet west from the SE corner, Section 22.
POA Pond Sump	☐ Authorized ☐ Proposed	NA	6	S	1	W	23	NW	SW	TL 800	1,875 feet north and 965 feet east from the SW corner, Section 23.
	☐ Authorized ☐ Proposed										

	☐ Proposed										
Check	all type(s) of c	hange(s) pro	posed be	elow (c	hange	"COD	ES" a	re prov	ided in p	arenthes	ses):
	Place of Use	(POU)				Supple	menta	l Use to	Primary	Use (S to	P)
	Character of	Use (USE)				Point o	f Appı	ropriati	on/Well (POA)	
	Point of Dive	ersion (POD)				Additio	onal Po	oint of A	Appropria	tion (APC	OA)
	Additional P	oint of Diver	sion (APC	OD)		Substit	ution ((SUB)			
\boxtimes	Surface Water POA (SW/G		ound Wa	ter		Govern	ment	Action	POD (GO	V)	
Will al	l of the propos	ed changes a	affect the	entire	water	· right?					
× Yes	Complete on "CODES" lis							able 2 o	n the next	page. Us	se the
☐ No	Complete all	of Table 2 to	describe	the po	rtion o	of the wa	ater rig	ght to b	e changed	l .	

Do you have questions about how to fill-out the tables? Contact the Department at 503-986-0900 and ask for Transfer Staff.

Table 2. Description of Changes to Water Right Certificate # 67686

List the change proposed for the acreage in each ½ ½. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

The				appears of	on the	certific	cate BE		nds) POSED CHA	ANGES	Proposed Changes (see			Th	ne lis	sting			d appea		ΓER PI	on" lands) ROPOSED	CHANC	GES
Twp	Rng	S	Sec	1/4 1/4	Tax Lot	Gvt Lot or DLC	Acres	Type of USE listed on Certificate	POD(s) or POA(s) (name or number from Table 1)	Date	"CODES" from previous page)	T	wp	R	ng	Sec	1/4	1/4	Tax Lot	Gvt Lot or DLC	Acres	New Type of USE	POD(s)/ POA(s) to be used (from Table 1)	Priority Date
											SW/GW	6	S	1	W	22	NE	SE	2500	NA	2.3	IR	Pond Sump	3-23-81
											SW/GW	6	s	1	W	22	SE	SE	2500	NA	1.2	IR	Pond Sump	3-23-81
											SW/GW	6	S	1	W	23	NE	sw	800	NA	0.8	IR	Pond Sump	3-23-81
											SW/GW	6	s	1	W	23	NW	sw	800, 2500	NA	11.2	IR	Pond Sump	3-23-81
											SW/GW	6	S	1	w	23	SW	SW	700, 800, 2500	NA	20.3	IR	Pond Sump	3-23-81
		+									SW/GW	6	s	1	w	23	SE	sw	800	NA	1.5	IR	Pond Sump	3-23-81
		+																						
				TOTA	L ACR	ES:												<u> </u> ГОТА	L ACR	ES:	37.3			



For Place of Use or Character of Use Changes: NA

Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands? \square Yes \square No \bowtie NA

If YES, list the certificate, water use permit, or ground water registration numbers: NA.

Pursuant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application.

For Substitution (ground water supplemental irrigation will be substituted for surface water primary irrigation)

Ground water supplemental Permit or Certificate # <u>NA</u>; Surface water primary Certificate # <u>NA</u>.

JUL 1 2 2018

For a change from Supplemental Irrigation Use to Primary Irrigation Use

Identify the primary certificate to be cancelled. Certificate # NA



For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:

Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map.

Tip: You may search for well logs on the Department's web page at: http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx

AND/OR

Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

Table 3. Construction of Point(s) of Appropriation

POA Pond Sump	Yes	NA	depth 30 feet	NA NA	(feet)	(intervals) NA	(in feet) NA	(in feet) NA	Near- Surface Gravel	water right NA
Proposed or Authorized POA Name or Number	Is well already built?	If an existing well: OWRD Well ID Tag No.	Total well	Casing	Casing Intervals	Seal depth(s)	Perforated or screened intervals	Static water level of completed well	Source aquifer (sand, gravel,	Well -specific rate (cfs or gpm). If less han full rate of

Please use a separate Part 5 for each water right being changed. See instructions on page 6, to copy and paste additional Part 5s, or to add additional rows to tables within the form. **CERTIFICATE # 75598 Description of Water Delivery System** JUL 1 2 2018 System capacity: 0.12 cubic feet per second (cfs) OR __ gallons per minute (gpm) Describe the current water delivery system or the system that was in place at sometime within the last five years. Include information on the pumps, canals, pipelines, and sprinklers used to divert, convey, and apply the water at the authorized place of use. Water is conveyed from a 30 Hp centrifugal pump from Abiqua East POD through 6 inch main line with hydrants where wheel lines or hard hose travelers can be attached to irrigate row crops or grass seeds. Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA) (Note: If the POD/POA name is not specified on the certificate, assign it a name or number here.) Is this If POA, Tax POD/POA POD/POA OWRD Well Lot, Measured Distances Name or Authorized on Log ID# (or DLC (from a recognized Twp Rng Number Sec 1/4 1/4 the Certificate or Well ID or survey corner) Gov't is it Proposed? Tag # L-___) Lot Abiqua East POD Authorized NA 6 S 1 W 23 NW SE Certificate Lot 3 No measurements listed. ☐ Proposed 75598 Authorized 1,875 feet north and 965 **POA Pond** TL NA 6 S 1 W 23 NW SWfeet east from the SW Sump N Proposed 800 corner, Section 23. Authorized Proposed Check all type(s) of change(s) proposed below (change "CODES" are provided in parentheses): Place of Use (POU) Supplemental Use to Primary Use (S to P) Character of Use (USE) Point of Appropriation/Well (POA) Point of Diversion (POD) Additional Point of Appropriation (APOA) Additional Point of Diversion (APOD) Substitution (SUB) Surface Water POD to Ground Water Government Action POD (GOV) POA (SW/GW) Will all of the proposed changes affect the entire water right? Yes Complete only the Proposed ("to" or "on" lands) section of Table 2 on the next page. Use the "CODES" listed above to describe the proposed changes. Complete all of Table 2 to describe the portion of the water right to be changed.

Do you have questions about how to fill-out the tables? Contact the Department at 503-986-0900 and ask for Transfer Staff.

Table 2. Description of Changes to Water Right Certificate # 75598

List the change proposed for the acreage in each ½ ¼. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

Th		_		appea	rs on	the c	certific	cate BE		ds) POSED CHA I be changed.		Proposed Changes (see			Th	e lis	sting	PR as it	OPOS	appea	the "to ar AF"	ΓER PI	on" lands) ROPOSED	CHANG	ES
Twp	Rng	ıg	Sec	1/4 1/	/4	Tax Lot	Gvt Lot or DLC	Acres	Type of USE listed on Certificate	POD(s) or POA(s) (name or number from Table 1)	Date	"CODES" from previous page)	Т	wp	R	ng	Sec	1/4	1/4	Tax Lot	Gvt Lot or DLC	Acres	New Type of USE	POD(s)/ POA(s) to be used (from Table 1)	Priority Date
												SW/GW	6	S	1	w	23	NE	sw	800	NA	5.2	IR	Pond Sump	8-31-39
												SW/GW	6	s	1	w	23	SE	SW	800	NA	4.3	IR	Pond Sump	8-31-39
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_				_																					
						4.675																			
				TC	JΤAL	L ACR	ES:												ГОТА	L ACR	RES:	9.5			



For Place of Use or Character of Use Changes: NA

Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands?

Yes NA

If YES, list the certificate, water use permit, or ground water registration numbers: NA.

Pursuant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application.

For Substitution (ground water supplemental irrigation will be substituted for surface water primary irrigation)

RECEIVED

Ground water supplemental Permit or Certificate # <u>NA</u>; Surface water primary Certificate # <u>NA</u>.

JUL 1 2 2018

For a change from Supplemental Irrigation Use to Primary Irrigation Use

Identify the primary certificate to be cancelled. Certificate # NA

OWRD

For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:

Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map.

Tip: You may search for well logs on the Department's web page at: http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx

AND/OR

Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

Table 3. Construction of Point(s) of Appropriation

Proposed or Authorized POA Name or Number	Is well already built? ((Yes or No)	If an existing well: OWRD Well ID Tag No. L-	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well -specific rate (cfs or gpm). If less han full rate of water right
POA Pond Sump	Yes	NA	30 feet	NA	NA	NA	NA	NA	Near- Surface Gravel	NA

Pleas copy	e use a separate and paste addit	Part 5 for ea	or t	o ad	d add	ditior	nal rov	ws to ta	ables v	nstruction the vithin the	ons on page 6, to
Descri	ption of Water	Delivery Sy	ster		X 1 1 1	TCA	TL #	1337)	-		JUL 1 2 2018
	•	8 cubic feet p	er s	econ	-		R				OWRD
five ye and app from A	ars. Include info ply the water at Abiqua East P (ormation on the authorized DD through	the ped p	oump lace (ch m	os, ca of us ain	nals, se. <u>W</u> line y	pipel ateri with l	lines, a is conv hydrar	nd spr eyed its wh	inklers from a	used to divert, convey, 30 Hp centrifugal pump
POD/POA Name or Number	Is this POD/POA Authorized on the Certificate or is it Proposed?	apacity: 0.08 cubic feet per second (cfs) ORgallons per minute (gpm) the current water delivery system or the system that was in place at sometime within the last . Include information on the pumps, canals, pipelines, and sprinklers used to divert, convey, the water at the authorized place of use. Water is conveyed from a 30 Hp centrifugal pum qua East POD through 6 inch main line with hydrants where wheel lines or hard hose can be attached to irrigate row crops or grass seeds. tion of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA) DD/POA name is not specified on the certificate, assign it a name or number here.) Is this POD/POA Authorized on e Certificate or sit Proposed? Authorized Proposed NA 6 S 1 W 23 NW SE Lot 3 No measurements listed. 1,875 feet north and 965 feet east from the SW corner, Section 23.									
Abiqua East POD Certificate 75599		NA	6	S	1	w	23	NW	SE	Lot 3	No measurements listed.
POA Pond Sump	☐ Authorized ☐ Proposed	NA	6	S	1	w	23	NW	SW		feet east from the SW
	☐ Authorized ☐ Proposed										
Check	all type(s) of c	change(s) pro	opos	sed b	elov	v (ch	ange	"COD	ES" a	re pro	vided in parentheses):
	Place of Use	(POU)									
	Character of	Use (USE)									
	Point of Div	ersion (POD)					_				Appropriation (APOA)
	Additional P	oint of Diver	sion	(AP	OD))		Substit	ution	(SUB)	
			oun	d Wa	ater			Goveri	nment	Action	POD (GOV)
Will a	ll of the propos	sed changes	affe	ct th	e en	tire v	vater	right?			
∑ Yes		ly the Propos sted above to		•			-			able 2 c	on the next page. Use the
☐ No	Complete all	of Table 2 to	o de	scrib	e the	port	tion o	f the w	ater ri	ght to b	e changed.

Do you have questions about how to fill-out the tables? Contact the Department at 503-986-0900 and ask for Transfer Staff.

Table 2. Description of Changes to Water Right Certificate # 75599

List the change proposed for the acreage in each ¼ ¼. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

Th	Rng Sec 1/4 1/4 Tax Lot or Lot DI C Sectificate POA(s) (na or number							POSED CHA	ANGES	Proposed Changes (see			Th	ne lis	sting			appea		ΓER PI	on" lands) ROPOSED	CHANG	ES		
Twp	Rng	g	Sec	1/4 1/4		ot	Lot or	Acres	listed on	POD(s) or POA(s) (name or number from Table 1)	Date	"CODES" from previous page)	T	wp	R	ng	Sec	1/4	1/4	Tax Lot	Gvt Lot or DLC	Acres	New Type of USE	POD(s)/ POA(s) to be used (from Table 1)	Priority Date
						,						SW/GW	6	s	1	W	23	NE	SW	800	NA	3.3	IR	Pond Sump	5-6-52
												SW/GW	6	S	1	w	23	NW	SW	800	NA	2.4	IR	Pond Sump	5-6-52
												SW/GW	6	s	1	W	23	SE	sw	800	NA	0.6	IR	Pond Sump	5-6-52
						+																			
						+																			
						+																			
				TOT	AL A	CRI	ES:											<u> </u>	ΓΟΤΑΙ	L ACR	ES:	6.3			



For Place of Use or Character of Use Changes: NA

Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands? \square Yes \square No \boxtimes NA

If YES, list the certificate, water use permit, or ground water registration numbers: NA.

Pursuant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application.

For Substitution (ground water supplemental irrigation will be substituted for surface water primary irrigation)

Ground water supplemental Permit or Certificate # <u>NA;</u> Surface water primary Certificate # <u>NA.</u>

JUL 1 2 2018

For a change from Supplemental Irrigation Use to Primary Irrigation Use

Identify the primary certificate to be cancelled. Certificate # \underline{NA}



For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:

Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map.

Tip: You may search for well logs on the Department's web page at: http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx

AND/OR

Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

Table 3. Construction of Point(s) of Appropriation

POA Pond Sump	Yes	NA	30 feet	NA	NA	NA	NA	NA	Near- Surface Gravel	NA
Proposed or Authorized POA Name or Number	Is well already built? ((Yes or No)	If an existing well: OWRD Well ID Tag No. L-	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well -specific rate (cfs or gpm). If less han full rate of water right

Please use a separate Part 5 for each water right being changed. See instructions on page 6, to copy and paste additional Part 5s, or to add additional rows to tables within the form. **CERTIFICATE #87460 Description of Water Delivery System** JUL 1 2 2018 System capacity: 0.10 cubic feet per second (cfs) OR gallons per minute (gpm) Describe the current water delivery system or the system that was in place at sometime within the last five years. Include information on the pumps, canals, pipelines, and sprinklers used to divert, convey, and apply the water at the authorized place of use. Water is conveyed from a 30 Hp centrifugal pump from Abiqua East POD through 6 inch main line with hydrants where wheel lines or hard hose travelers can be attached to irrigate row crops or grass seeds. Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA) (Note: If the POD/POA name is not specified on the certificate, assign it a name or number here.) Tax Is this If POA, POD/POA POD/POA Lot, OWRD Well Measured Distances DLC Log ID# (or Name or Authorized on (from a recognized Twp 1/4 1/4 Rng Sec Number the Certificate or Well ID or survey corner) Gov't is it Proposed? Tag # L-) Lot Abiqua M Authorized 2,550 feet north and East POD NA 6 S 1 W 23 NW SE Lot 3 2,560 feet west from the Certificate Proposed SE corner, Section 23. 87460 1.875 feet north and 965 Authorized **POA Pond** TL NA 6 S 1 W 23 NW SW feet east from the SW Sump N Proposed 800 corner, Section 23. Authorized Proposed Check all type(s) of change(s) proposed below (change "CODES" are provided in parentheses): Place of Use (POU) Supplemental Use to Primary Use (S to P) Character of Use (USE) Point of Appropriation/Well (POA) Point of Diversion (POD) Additional Point of Appropriation (APOA) Additional Point of Diversion (APOD) Substitution (SUB) Surface Water POD to Ground Water Government Action POD (GOV) POA (SW/GW)

Complete all of Table 2 to describe the portion of the water right to be changed.

Yes Complete only the Proposed ("to" or "on" lands) section of Table 2 on the next page. Use the

Will all of the proposed changes affect the entire water right?

"CODES" listed above to describe the proposed changes.

Do you have questions about how to fill-out the tables? Contact the Department at 503-986-0900 and ask for Transfer Staff.

Table 2. Description of Changes to Water Right Certificate # 87460

List the change proposed for the acreage in each ½ ¼. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

Th	Rng Sec 1/4 1/4 Tax Lot or Acres listed on Or number or number							POSED CHA	ANGES	Proposed Changes (see			Th	e lis	sting			l appea		ΓER PI	on" lands) ROPOSED	CHANG	ES		
Twp	Rng	g	Sec	1/4 1/4			Lot or	Acres	listed on	POD(s) or POA(s) (name or number from Table 1)	Priority Date	"CODES" from previous page)	T	wp	R	ng	Sec	1/4	1/4	Tax Lot	Gvt Lot or DLC	Acres	New Type of USE	POD(s)/ POA(s) to be used (from Table 1)	Priority Date
												SW/GW	6	s	1	W	23	SE	sw	1100	NA	3.8	IR	Pond Sump	7-17-61
												SW/GW	6	s	1	W	23	SW	SE	1100	NA	2.5	IR	Pond Sump	7-17-61
												SW/GW	6	s	1	W	26	NW	NE	1100	NA	0.6	IR	Pond Sump	7-17-61
												SW/GW	6	S	1	W	26	NE	NW	1100	NA	1.1	IR	Pond Sump	7-17-61
					-							744	_									2			
					+																				
		<u></u>		TOT	AL A	ACR	ES:												ГОТА	L ACR	ES:	8.0			



For Place of Use or Character of Use Changes: NA

Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands?
Yes No NA

If YES, list the certificate, water use permit, or ground water registration numbers: NA.

Pursuant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application.

For Substitution (ground water supplemental irrigation will be substituted for surface water primary irrigation)

Ground water supplemental Permit or Certificate # NA; Surface water primary Certificate # NA.

JUL 1 2 2018

For a change from Supplemental Irrigation Use to Primary Irrigation Use

Identify the primary certificate to be cancelled. Certificate # NA

For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:

Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map.

Tip: You may search for well logs on the Department's web page at: http://apps.wrd.state.or.us/apps/gw/well log/Default.aspx

AND/OR

Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For proposed wells not yet constructed or built, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

Table 3. Construction of Point(s) of Appropriation

Proposed or Authorized POA Name or Number	Is well	If an existing well: OWRD Well ID Tag No. L-	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well -specific rate (cfs or gpm). If less han full rate of water right
POA Pond Sump	Yes	NA	30 feet	NA	NA	NA	NA	NA	Near- Surface Gravel	NA

Please use a separate Part 5 for each water right being changed. See instructions on page 6, to copy and paste additional Part 5s, or to add additional rows to tables within the form.

CERTIFICATE # 87461

RECEIVED

Description of W	ater Delivery System	JUL 1 2 2018
System capacity:	<u>0.11</u> cubic feet per second (cfs) OR	JUL 1 2 2010
	gallons per minute (gpm)	OWRD
D 11 1		

Describe the current water delivery system or the system that was in place at sometime within the last five years. Include information on the pumps, canals, pipelines, and sprinklers used to divert, convey, and apply the water at the authorized place of use. Water is conveyed from a 30 Hp centrifugal pump from Abiqua East POD through 6 inch main line with hydrants where wheel lines or hard hose travelers can be attached to irrigate row crops or grass seeds.

Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA) (Note: If the POD/POA name is not specified on the certificate, assign it a name or number here.)

POD/POA Name or Number	Is this POD/POA Authorized on the Certificate or is it Proposed?	If POA, OWRD Well Log ID# (or Well ID Tag # L)	Т	wp	R	ang	Sec	1/4	1/4	Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)
Abiqua East POD Certificate 87461	□ Authorized □ Proposed	NA	6	S	1	w	23	NW	SE	Lot 3	2,550 feet north and 2,560 feet west from the SE corner, Section 23.
POA Pond Sump	☐ Authorized ☐ Proposed	NA	6	S	1	w	23	NW	SW	TL 800	1,875 feet north and 965 feet east from the SW corner, Section 23.
	☐ Authorized ☐ Proposed										

	_ 1									
Check	all type(s) of c	hange(s) pro	oposed belo	ow (chan	ge "	CODES" a	re prov	ided in p	arenthese	es):
	Place of Use	(POU)			S	upplementa	l Use to	Primary	Use (S to I	P)
	Character of	Use (USE)			Pe	oint of App	ropriati	on/Well (POA)	
	Point of Dive	ersion (POD)			A	dditional P	oint of A	Appropria	ation (APO	A)
	Additional P	oint of Diver	sion (APOI	D) [S	ubstitution	(SUB)			
\boxtimes	Surface Water POA (SW/G		ound Wate	r	G	overnment	Action	POD (GO	OV)	
Will all	of the propos	sed changes	affect the e	ntire wa	ter r	ight?				
X Yes	Complete on "CODES" lis	•	`		,		able 2 o	n the nex	t page. Use	the:
☐ No	Complete all	of Table 2 to	describe t	he portio	n of 1	the water ri	ght to b	e change	1.	

Do you have questions about how to fill-out the tables? Contact the Department at 503-986-0900 and ask for Transfer Staff.

Table 2. Description of Changes to Water Right Certificate # 87461

List the change proposed for the acreage in each ½ ¼. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

Th				appears	on the	certif	cate BE		nds) POSED CHA		Proposed Changes (see			Th	e lis	sting			appea		ΓER PI	on" lands) ROPOSED	CHANG	ES
Twp	Rng	3	Sec	1/4 1/4	Tax Lot	Gvt Lot o DLC		Type of USE listed on Certificate	POD(s) or POA(s) (name or number from Table 1)	Date	"CODES" from previous page)	T	vр	R	ng	Sec	1/4	1/4	Tax Lot	Gvt Lot or DLC	Acres	New Type of USE	POD(s)/ POA(s) to be used (from Table 1)	Priority Date
											SW/GW	6	S	1	w	23	NE	SW	1100	NA	3.2	IR	Pond Sump	8-31-39
											SW/GW	6	S	1	w	23	SE	SW	1100	NA	3.3	IR	Pond Sump	8-31-39
											SW/GW	6	s	1	w	23	NW	SE	1100	Lot 3	1.3	IR	Pond Sump	8-31-39
											SW/GW	6	s	1	W	23	sw	SE	1100	NA	1.3	IR	Pond Sump	8-31-39
				TOT	AL AC	RES:												<u> </u> ГОТА	L ACF	RES:	9.1			

For Place of Use or Character of Use Changes: NA

Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands? \square Yes \square No \boxtimes NA

If YES, list the certificate, water use permit, or ground water registration numbers: NA.

Pursuant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application.

For Substitution (ground water supplemental irrigation will be substituted for surface water primary irrigation)

RECEIVED

Ground water supplemental Permit or Certificate # <u>NA;</u> Surface water primary Certificate # <u>NA.</u>

JUL 1 2 2018

For a change from Supplemental Irrigation Use to Primary Irrigation Use

Identify the primary certificate to be cancelled. Certificate # NA



For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:

Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map.

Tip: You may search for well logs on the Department's web page at: http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx

AND/OR

Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

Table 3. Construction of Point(s) of Appropriation

Proposed or Authorized POA Name or Number	Is well	If an existing well: OWRD Well ID Tag No. L-	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well -specific rate (cfs or gpm). If less han full rate of water right
POA Pond Sump	Yes	NA	30 feet	NA	NA	NA	NA	NA	Near- Surface Gravel	NA

Please use a separate Part 5 for each water right being changed. See instructions on page 6, to copy and paste additional Part 5s, or to add additional rows to tables within the form.

CERT	IFICA	ATE	#	87462

RECEIVED

Description	of	Water	Deliv	ery	System	1
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System capacity: 0.16 cubic feet per second (cfs) OR

JUL 1 2 2018

gallons per minute (gpm)

Describe the current water delivery system or the system that was in place at cometine within the last five years. Include information on the pumps, canals, pipelines, and sprinklers used to divert, convey, and apply the water at the authorized place of use. Water is conveyed from a 30 Hp centrifugal pump from Abiqua East POD through 6 inch main line with hydrants where wheel lines or hard hose travelers can be attached to irrigate row crops or grass seeds.

Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA) (Note: If the POD/POA name is not specified on the certificate, assign it a name or number here.)

POD/POA Name or Number Is this POD/POA Authorized on the Certificate or is it Proposed?		If POA, OWRD Well Log ID# (or Well ID Tag # L)	Twp		Rng		Sec	V4 V4		Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)	
Abiqua East POD Certificate 87462	□ Authorized □ Proposed	NA	6	S	1	W	23	NW	SE	Lot 3	2,550 feet north and 2,560 feet west from the SE corner, Section 23.	
POA Pond Sump	☐ Authorized ☐ Proposed	NA	6	s	1	W	23	NW	SW	TL 800	1,875 feet north and 965 feet east from the SW corner, Section 23.	
	☐ Authorized ☐ Proposed											

Check	all type(s) of c	change(s) pro	posed b	elow (ch	ange	"CODES" aı	re prov	ided in p	arenthese	s):
	Place of Use	(POU)				Supplemental	Use to	Primary	Use (S to I	?)
	Character of	Use (USE)				Point of Appr	opriation	on/Well (POA)	
	Point of Dive	ersion (POD)				Additional Po	oint of A	Appropria	ntion (APO	A)
	Additional P	oint of Divers	sion (AP	OD)		Substitution (SUB)			
\boxtimes	Surface Wate POA (SW/G	er POD to Gr W)	ound Wa	iter		Government A	Action	POD (GO	OV)	
Will al	l of the propos	sed changes a	affect the	e entire	water	right?				
_							110	.1		- /1

W

X Yes	Complete only the Proposed ("to" or "on" lands) section of Table 2 on the next page. Use	the
	"CODES" listed above to describe the proposed changes.	

Complete all of Table 2 to describe the portion of the water right to be changed.

Do you have questions about how to fill-out the tables? Contact the Department at 503-986-0900 and ask for Transfer Staff.

Table 2. Description of Changes to Water Right Certificate # 87462

List the change proposed for the acreage in each ¼ ¼. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

AUTHORIZED (the "from" or "off" lands) The listing that appears on the certificate BEFORE PROPOSED CHANGES List only that part or portion of the water right that will be changed.						Proposed Changes (see								TER PROPOSED CHANGES										
Twp	Rng		Sec	1/4 1/4	Tax Lot	Gvt Lot or DLC	Acres	Toma action	DOD(s) or	Priority Date	"CODES" from previous page)	Tv	vp	Rı	ng	Sec	1/4	1/4	Tax Lot	Gvt Lot or DLC	Acres	New Type of USE	POD(s)/ POA(s) to be used (from Table 1)	Priority Date
											SW/GW	6	S	1	w	23	SE	sw	1100	NA	7.2	IR	Pond Sump	5-6-52
											SW/GW	6	s	1	w	23	sw	SE	1100	NA	5.7	IR	Pond Sump	5-6-52
				TOTA	AL AC	RES:												TOTA	L ACF	RES:	12.9			

Additional remarks: None.

JUL 12 2018

For Place of Use or Character of Use Changes: NA

Are there other water right certificates, water use permits or ground water registrations associated with the "from" or the "to" lands?

Yes No NA

If YES, list the certificate, water use permit, or ground water registration numbers: NA.

Pursuant to ORS 540.510, any "layered" water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application.

For Substitution (ground water supplemental irrigation will be substituted for surface water primary irrigation)

Ground water supplemental Permit or Certificate # NA; Surface water primary Certificate # NA.

RECEIVED

For a change from Supplemental Irrigation Use to Primary Irrigation Use

Identify the primary certificate to be cancelled. Certificate # \underline{NA}

JUL 1 2 2018

For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation:

Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated
with the corresponding well(s) in Table 1 above and on the accompanying application map.
Tip: You may search for well logs on the Department's web page at:
http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx

AND/OR

Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For proposed wells not yet constructed or built, provide "a best estimate" for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

Table 3. Construction of Point(s) of Appropriation

	((Yes or No)		depth 30 feet	Diameter	(feet)	(intervals)	(in feet)	(in feet)	basalt, etc.) Near- Surface	NA	
Proposed or Authorized POA Name or	Is well	If an existing well: OWRD Well ID Tag No.	Total well	Casing	Casing Intervals	Seal depth(s)	Perforated or screened intervals		Source aquifer (sand, gravel,	Well -specific rate (cfs or gpm). If less han full rate o	