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Rev 10/09

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Department of Water Resources
Eastern Region

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

Transfer No. 77374

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1

Name of Applicant(s) MARTIN W HALPERN

Phone 214.957.6189

Mailing address PO BOX 32 ARGYLE TX 76226

Email martywhalpern@yahoo.com

- ☐ If applicant is not an individual and not registered to do business in the State of Idaho, attach documentation identifying officers authorized to sign or act on behalf of the applicant. Label it Attachment #1.
- ☐ Attach water right ownership documentation if Department records do not show the transfer applicant as the current water right owner. Label it Attachment #2a.
- ☐ If the ownership of the water right will change as a result of the proposed transfer to a new place of use, attach documentation showing land and water right ownership at the new place of use. Include documentation for all affected land and owner(s). Label it Attachment #2b.
- ☐ Attach documentation of authority to make the proposed change if the applicant is not the water right owner. Label it Attachment #3.

Provide contact information below if a consultant, attorney, or any other person is representing the applicant in this transfer process.

☐ No Representative

Name of Representative TRENT ROMAN

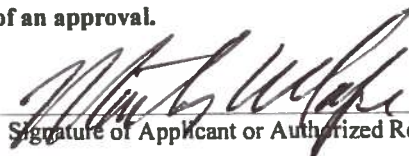
Phone 208.879.6121

Mailing address HC 82 BOX 4023-4 CHALLIS ID 83226

Email roman@custertel.net

- ☐ Send all correspondence for this application to the representative and not to the applicant.
- OR ☒ Send original correspondence to the applicant and copies to the representative.
- ☒ The representative may submit information for the applicant but is not authorized to sign for the applicant.
- OR ☐ The representative is authorized to sign for the applicant. Attach a Power of Attorney or other documentation providing authority to sign for the applicant and label it Attachment #4.

I hereby assert that no one will be injured by the proposed changes and that the proposed changes do not constitute an enlargement in use of the original right(s). The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.



Signature of Applicant or Authorized Representative

MARTIN W HALPERN
Print Name and Title if applicable

6/10/11
Date

Signature of Applicant or Authorized Representative

Print Name and Title if applicable

Date

A. PURPOSE OF TRANSFER

AMENDED

1. ☐ Change point of diversion ☐ Add diversion point(s) ☒ Change place of use
☒ Change nature of use ☒ Change period of use ☐ Other
2. Describe your proposal in narrative form, including a detailed description of non-irrigation uses to justify amounts transferred (i.e. number of stock, etc.), and provide additional explanation of any other items on the application. Attach additional pages if necessary and label it Part 1A.2. SEE ATTACHMENT

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

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APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

B. DESCRIPTION OF RIGHTS AFTER THE REQUESTED CHANGES. IF THE RIGHTS ARE BEING SPLIT, DESCRIBE PORTIONS TO BE CHANGED AS THEY WOULD APPEAR AFTER THE REQUESTED CHANGES.

I.	Right Number	Amount (cfs/ac-ft)	Nature of Use	Period of Use	Source & Tributary
All or Part ☒ ☐	75-4043	.15 cfs	Irrigation/Stockwater	04/01 to 10/31	S. Gulch/Spring/Big Hat Cr.
☒ ☐	75-7067	.08 cfs	Irrigation	04/01 to 10/31	S. Gulch Cr. / Big Hat Cr.
☐ ☐		.08 cfs	Diversion to storage	04/01 to 10/31	S. Gulch Cr. / Big Hat Cr.
☐ ☐		7.7 ac-ft	Recreation storage	01/01 to 12/31	S. Gulch Cr. / Big Hat Cr.
☐ ☐		7.7 ac-ft	Wildlife storage	01/01 to 12/31	S. Gulch Cr. / Big Hat Cr.
☐ ☐		7.7 ac-ft	Aesthetic storage	01/01 to 12/31	S. Gulch Cr. / Big Hat Cr.
☐ ☐		7.7 ac-ft	Fire Protection storage	01/01 to 12/31	S. Gulch Cr. / Big Hat Cr.
☐ ☐				to	
☐ ☐				to	

Total authorized under rights .31 cfs and/or ac-ft

AMENDED

2. Total amount of water proposed to be transferred or changed .31 cubic feet per second and/or acre-feet per annum.

3. Point(s) of Diversion:

- ☒ No changes to point(s) of diversion are proposed-the following chart is therefore not completed. (Proceed to #4.)
☐ Attach Eastern Snake Plain Aquifer analysis if this transfer proposes to change a point of diversion affecting the ESPA.
Label it Attachment #5.

New ?	Lot	¼	¼	¼	Sec	Twp	Rge	County	Source	Local name or tag #

4. Place of use: (If irrigation, identify with number of acres irrigated per ¼ ¼ tract.)

- ☐ No changes to place of use are proposed-the following chart is therefore not completed. (Proceed to #5.)

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Acre Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
17N	20E	14					1.1	1.2	1.4	2.4									6.1
17N	20E	14					R												
17N	20E	14					W												
17N	20E	14					J												
17N	20E	14					S	S	S	S									
17N	20E	14					F												

Total Acres (for irrigation use) 6.1

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Part 1A.2

The application proposes to construct a series of three ponds within currently irrigated lands. The sloping nature of the site requires the three ponds be tiered in elevation. The ponds will be constructed primarily by excavation with downstream banks of compacted fill and lined with bentonite. The surface areas of the three ponds total 1.0 acre; a maximum average depth of 6 feet is proposed creating storage of 6.0 acre-feet. Purpose of the ponds is aesthetic storage, wildlife storage, recreation storage and fire protection storage.

4.3 acres from water right 75-7067 will be dried up to cover the annual fill of the pond and mitigate for the evaporative losses of the ponds. The ponds will be lined with bentonite, which will eliminate any seepage. This application also seeks to change the place of use for water rights 75-4043 and 75-7067. The total acres authorized for irrigation under these rights is 10.4 acres, which includes a 1.1 acre overlap. The new combined place of use for these water rights will authorize the irrigation of 6.1 acres.

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

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APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

5. General Information:

- a. Describe the complete diversion system, including how you will accommodate a measuring device and lockable controlling works should they be required now or in the future: see attached

- b. Who owns the property at the point(s) of diversion? BLM

If other than the applicant, describe the arrangement enabling the applicant to access the property for the diversion system: _____
Right of way grants Ref #'s IDI-12307, IDI-1230701.

- c. Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts?

No
MLH If ~~yes~~, ☒ Attach a notarized statement from the holder of the lien, deed of trust, mortgage or contract agreeing to the proposed changes on official letterhead signed by an authorized representative. Label it Attachment #6. List the name of the entity and type of lien: Property has No Lien or Mortgage on it. Sdkly
owned by MARTIN Halpern. MLH

It is the applicant's responsibility to provide notice to lien holder, trustee, mortgagor, or contract holder of the proposed changes that may impact or change the value of the water rights or affected real property. Any misrepresentation of legal encumbrance on this application may result in rejection of the application or cancellation of an approval.

- d. Describe the effect on the land now irrigated if the place or purpose of use is changed pursuant to this transfer: 4.3 acres of land
will be dried up to cover the pond and evaporation.

- e. Describe the use of any other water right(s) for the same purpose or land, or the same diversion system as right(s) proposed to be transferred at both the existing and proposed point(s) of diversion and place(s) use: NA

- f. To your knowledge, has/is any portion of the water right(s) proposed to be changed:

Yes No

- ☐ ☒ undergone a period of five or more consecutive years of non-use,
☐ ☒ currently leased to the Water Supply Bank,
☐ ☒ currently used in a mitigation plan limiting the use of water under the right, or
☐ ☒ currently enrolled in a Federal set-aside program limiting the use of water under the rights?

If yes, describe: _____

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STATE OF IDAHO
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APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3

A. PLAT MAP (See Part 3A of Instructions for application for transfer for complete requirements.)

- ☒ Attach a map of the diversion, measurement, control, and distribution system. Label it Attachment #7a.
☒ If the transfer application proposes to change the place or purpose of use of an irrigation right attach a Geographic Information System (GIS) shape file, or an aerial photo or other image clearly delineating the location and extent of existing acres and changes to the place of use. Label it Attachment #7b. If the place of use currently consists of a permissible place of use, then the attachment is not required if the application contains a clear statement that the boundaries for the place of use are not proposed to be changed by the transfer and the total number of irrigated acres within the place of use before and after the transfer is clearly stated.

B. CHANGES IN NATURE OF USE (Water Balance)

- ☒ If you propose to change the nature of use or period of use of all or part of the rights(s) listed in this application, attach documentation describing the extent of historic beneficial use of the portion of the right(s) proposed to be changed. Also attach documentation showing that the portion of the right(s) to be changed will not be enlarged in rate, volume, or consumptive use through the proposed change. Label it Attachment #8a.

C. PLACE OF USE CHANGES TO SUPPLEMENTAL IRRIGATION RIGHTS

- ☐ If you propose to change the place of use of a supplemental irrigation right, answer below and attach supporting documentation. Label it Attachment #8b.

1. Describe how the supplemental water rights have been used historically in conjunction with other water rights at the existing place of use. Describe the time during the irrigation season that the supplemental rights have been used. Include information about the availability or reliability of the primary right(s) being supplemented, both before and after the change. If the applicant is proposing to change a supplemental irrigation right to a primary right, provide the information required on Part 3B above.: _____

AMENDED

FOR DEPARTMENT USE ONLY

Transfer contains 8 pages and 4 attachments.
Received by Km Date 6/27/2011 Prelim. Check by Km Date 6/27/2011
Fee Paid _____ Date _____ Received by _____ Receipt # _____
Add'l Fee Paid _____ Date _____ Received by _____ Receipt # _____

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**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 2A**

Current Water Right No.: 75-4043

Current Owner: MARTIN W HALPERN

Priority Date: 5/1/1952

Origin: Water Right

Status: Active

Basis: Decreed

Source

SOUTH GULCH CREEK

Tributary

BIG HAT CREEK

Beneficial UseFrom To

STOCKWATER

01/01 to 12/31

IRRIGATION

04/01 to 10/31

Total DiversionDiversion Rate

0 02 CFS

0 13 CFS

0 15 CFS

Annual VolumeLocation of Point(s) of Diversion

SOUTH GULCH CREEK

LEMHI County

SPRING

LEMHI County

SE1/4SW1/4 Sec 11, Twp 17N, Rge 20E B M

SE1/4SW1/4 Sec 11, Twp 17N, Rge 20E B M

Place of UseSTOCKWATER Within LEMHI County

T17N R20E S14

NENW

T17N R20E S14

SE1/4

IRRIGATION Within LEMHI County

T17N R20E S14

NENW

3 10

T17N R20E S14

SE1/4

0 30

Total Acres 3 4

Conditions of Approval:

1. N08 The quantity of water decreed for this water right for stockwater use is not a determination of historical beneficial use
2. U42 Place of use does not include federal public lands
3. C18 This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree Section 42-1412(8), Idaho Code
4. N05 The quantity of water under this right for stockwater use shall not exceed 13,000 gallons per day

Decreed Date 9/10/2008

AMENDED

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**IDAHO DEPARTMENT OF WATER RESOURCES
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 2A**

Current Water Right No.: 75-7067

Current Owner: MARTIN W HALPERN

Priority Date: 3/9/1976

Origin: Water Right

Status: Active

Basis: Decreed

Source

SOUTH GULCH CREEK

Tributary

BIG HAT CREEK

Beneficial Use

IRRIGATION

From To

04/01 to 10/31

Total DiversionDiversion Rate

0.16 CFS

0.18 CFS

Annual Volume

28.3 AF

28.3 AF

Location of Point(s) of Diversion

SOUTH GULCH CREEK

SW1/4SE1/4SW1/4

Sec 11,

Twp 17N,

Rge 20E B M

LEMHI County

Place of UseIRRIGATION Within LEMHI County

T17N R20E S14

NENW

1.30

T17N R20E S14

NWNW

1.20

T17N R20E S14

SWNW

1.40

T17N R20E S14

SEWN

4.20

Total Acres 8.1

Conditions of Approval:

1. C18 This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.
2. R59 This right when combined with all other rights shall provide no more than 0.02 cfs per acre or more than 3.5 afa per acre at the field headgate for irrigation of the lands above.
3. 197 Upon specific notification by the Department, the right holder shall install and maintain acceptable measuring device(s), including data logger(s), at the authorized point(s) of diversion, in accordance with Department specifications.
4. 004 This right does not grant any right-of-way or easement across the land of another.
5. U42 Place of use does not include federal public lands.

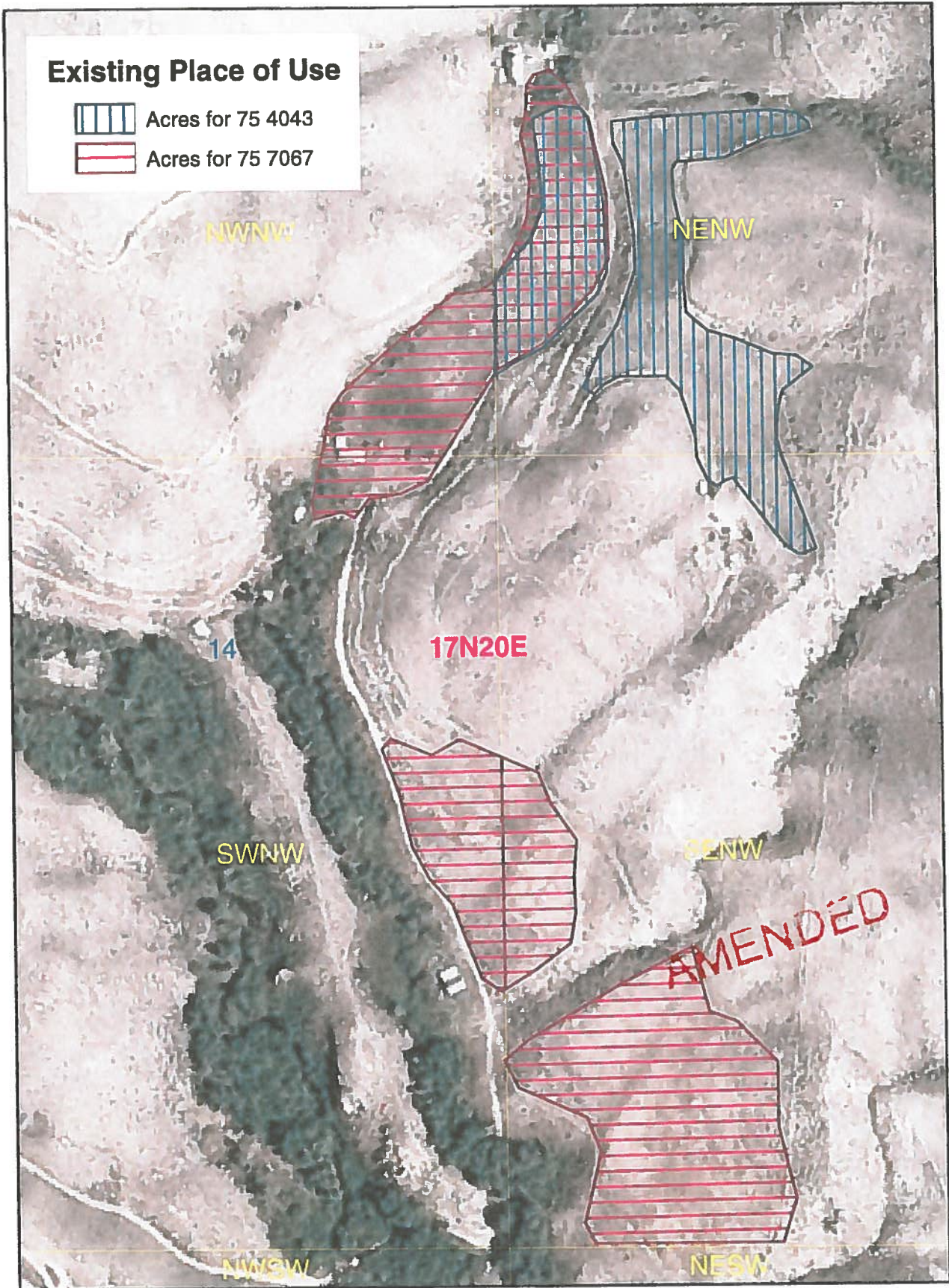
AMENDED

Decreed Date: 2/2/2010

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Existing Place of Use

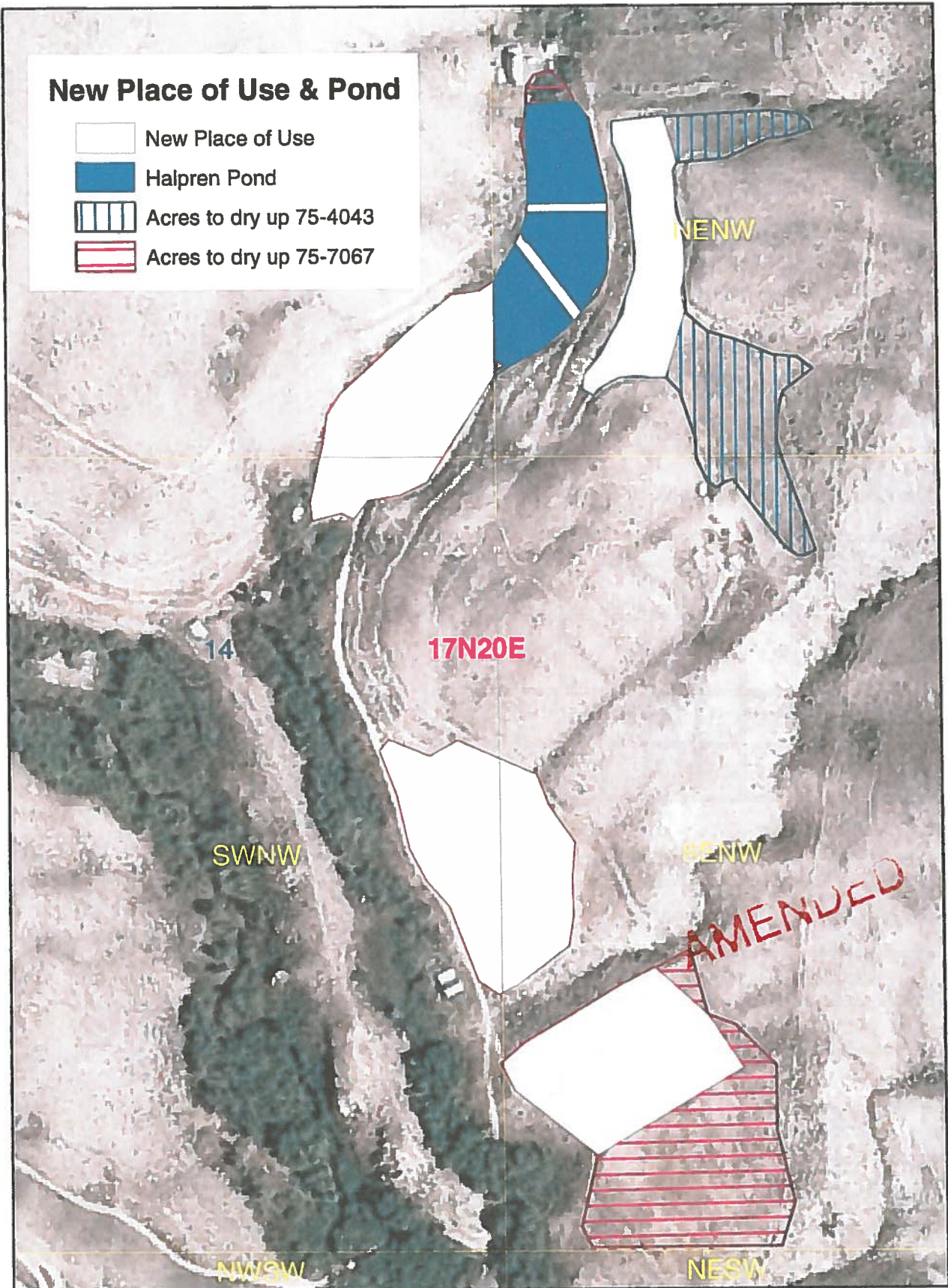
- Acres for 75 4043
- Acres for 75 7067



0 0.025 0.05 0.1 Miles

New Place of Use & Pond

-  New Place of Use
-  Halpren Pond
-  Acres to dry up 75-4043
-  Acres to dry up 75-7067



0 0.025 0.05 0.1 Miles

ET_{Idaho} 2009: Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison@kimberly.uidaho.edu Copyright 2010, University of Idaho.

Salmon (NWS --108076)

Statistics based on thirty

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Open water - shallow systems (ponds, streams)														
Precipitation Deficit (Click here for a graph)														
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Non Growing Season ^b
Mean	mm/day												mm	
Monthly ^c	0.33	0.08	1.01	1.87	2.03	2.77	3.50	3.20	1.69	0.78	0.23	0.49	487	0
15-Day Moving Average ^d	0.34	0.01	1.03	1.86	1.99	2.72	3.57	3.18	1.65	0.81	0.21	0.46		
7-Day Moving Average ^e	0.34	0.04	1.01	1.85	1.98	2.73	3.54	3.19	1.65	0.80	0.24	0.46		
3-Day Moving Average ^f	0.33	0.07	1.00	1.87	2.01	2.75	3.51	3.21	1.67	0.78	0.24	0.49		
Standard Deviation	mm/day												mm	
Monthly	0.38	0.35	0.48	0.65	1.24	0.92	1.18	0.84	0.71	0.75	0.43	0.64	72	0
15-Day Moving Average	0.43	0.47	0.45	0.85	1.33	1.13	1.10	0.89	1.03	0.66	0.56	0.60		
7-Day Moving Average	0.64	0.62	0.66	1.16	1.80	1.69	1.48	1.15	1.35	0.98	0.80	0.81		
3-Day Moving Average	0.88	0.83	0.99	1.62	2.42	2.34	2.15	1.52	1.81	1.36	1.15	1.14		
20% Exceedance	mm/day												mm	
Monthly	0.07	0.37	1.33	2.32	2.86	3.63	4.21	3.66	2.12	1.14	0.08	0.06	540	0
15-Day Moving Average	0.15	0.51	1.79	2.95	3.88	4.40	4.70	4.17	2.78	1.68	0.43	0.10		
7-Day Moving Average	0.25	0.70	2.22	3.58	4.44	4.84	4.97	4.45	3.14	2.02	0.69	0.18		
3-Day Moving														

PRECIPITATION DEFICIT CALCULATION FOR PONDS

PRECIPITATION DEFICIT CALCULATION - 1977														mm/foot	0.00328084	Pond Size	AF needed
MM/DAY														TOTAL FEET			
JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	TOTAL MM					
0	0.08	1.101	1.87	2.03	2.77	3.5	3.2	1.69	0.78	0	0						
0	2.24	34.131	56.1	62.93	83.1	108.5	99.2	50.7	24.2	0	0	521.081			1.7	1 1.709583	
1	1	1	1	1	1	1	1	1	1	1	1		Total evaporate AF				
0	2.24	34.131	56.1	62.93	83.1	108.5	99.2	50.7	24.2	0	0	521.081		1.709583336			
													acres				
													needed				
													Evap			1	

Total AF for Pond

DATA ENTRY IN YELLOW

DAYS

29 30 31 28

Crop Type = Grass pasture (low management)
CIR AF/ACRE 1.8

1 Pond Size ACRES
6 AVERAGE depth of POND in FEET
AF NEEDED TO FILL POND
acres to dry up to fill pond

Total acres to dry up for pond:

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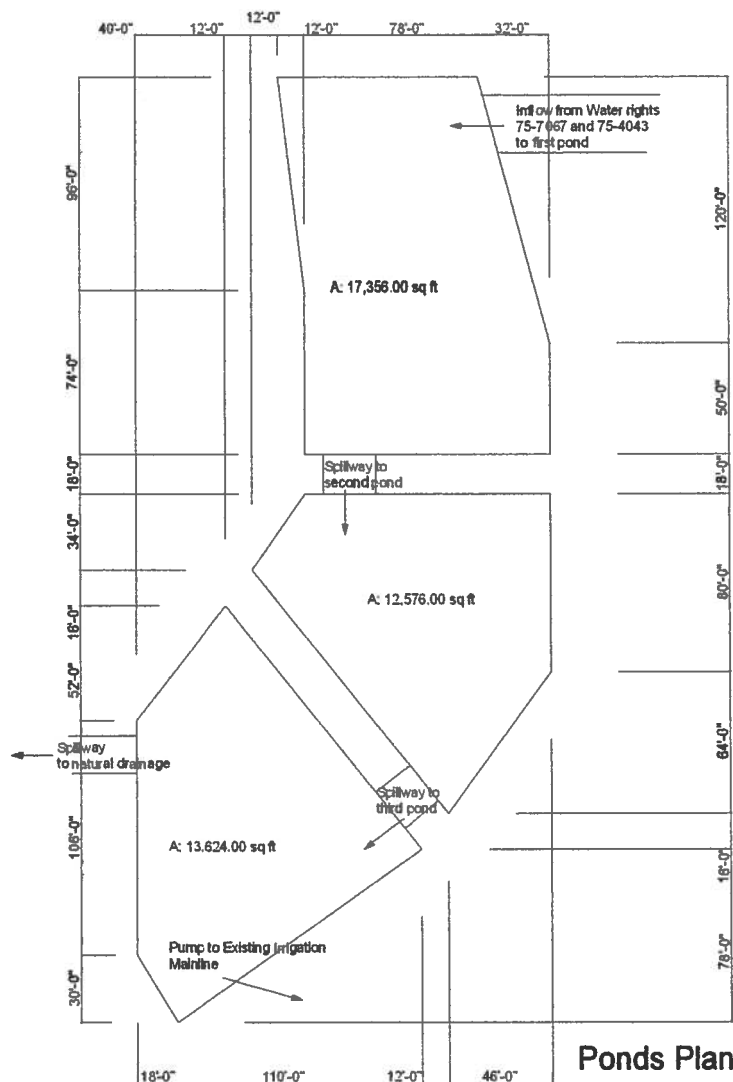
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Martin W Halpern

Attachment #7a

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Ponds Plan

Pond Calculations and design notes

Pond surface area 1 acre
@ 6' maximum average depth provides
6 acre/feet of storage

Water Right 75-7067 has an annual maximum
diversion of 28.3 acre/feet = .06 cfs continuous
diversion rate/ 8 months.

Water right 75-4043 is 0.13cfs/ 8 months
and .02 cfs / 12 months

Total diversion rate available for ponds = 0.21 cfs
= .42 acre/feet/day

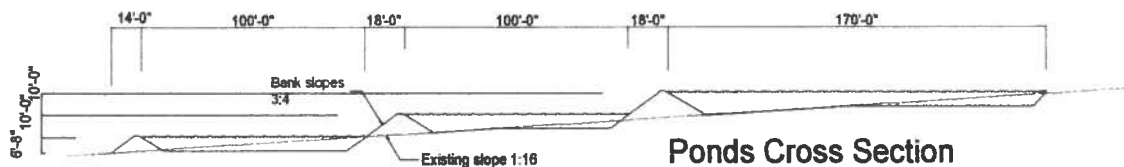
Initial filling of ponds requires 15 days with NO
irrigation consumption, after initial filling ponds will be
self maintaining.

Ponds to be bentonite lined with native soil cover.

Spillways to be bentonite lined with rock cover

Each pond to have 12" PVC pipe to facilitate draining
should the need arise. Drainline to be installed with
screened intake at deepest portion and sloped to gate
valve at spillway.

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Ponds Cross Section

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JUN 22 2011

Rev 10/09

Department of Water Resources
Eastern Region

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Transfer No. _____

MINIMUM REQUIREMENTS CHECKLIST
TO BE SUBMITTED WITH APPLICATION FOR TRANSFER

An application for transfer must be prepared in accordance with the minimum requirements listed below to be acceptable for processing by the Department. Incomplete applications will be returned. The instructions, fee schedule, Part 2A reports and additional Part 2B forms are available from any Department office or on the Department's website at <http://www.idwr.idaho.gov>.

Check whether each item below is *attached* (Yes) or *not applicable* (N/A) for the proposed transfer.

Yes N/A * Means the item is always required and must be included with the application.

- ☒ * Completed Application for Transfer of Water Right form, Part 1.
- ☒ * Signature of applicant(s) or applicant's authorized representative on Application for Transfer Part 1. Include evidence of authority labeled Attachment #3 (see below) if signed by representative.
- ☒ * Application for Transfer Part 2A. Attach a Part 2A report describing each water right in the transfer as currently recorded.
- ☒ ☐ Complete and attach an Application for Transfer Part 2B for each water right for which only a portion is proposed to be changed through this transfer application. Part 2B forms are available on the Department's website at: http://www.idwr.idaho.gov/WaterManagement/WaterRights/WaterRightTransfers/PDFs/09_WaterRight_TransferApp_Part2B.pdf.
- ☒ * Application for Transfer Part 3A is always required (see Attachment #7a below); Parts 3B and 3C must be completed for transfer applications proposing to change the nature of use of the water right(s) or proposing changes to supplemental right(s).
- ☒ * Correct fee submitted with transfer application form. (Fee schedule is on website and instructions for application for transfer.)

Attachments to Application - Label each attachment with the corresponding number shown below as Attachment #1-9.

- ☐ ☒ #1 If the applicant is a business, partnership, organization, or association, and not currently registered in the State of Idaho as a business entity, attach documentation identifying officers authorized to sign or act on behalf of right holder. (See Part 1.)
- ☐ ☒ #2a Water Right ownership documentation if Dept. records do not show the transfer applicant as the current water right owner.
- ☐ ☒ #2b If the ownership of the water right will change as a result of the proposed transfer to a new place of use, attach documentation showing land and water right ownership at the new place of use. Include documentation for all affected land and owner(s).
- ☐ ☒ #3 Documentation of authority to make the change if the applicant is not the water right owner.
- ☐ ☒ #4 Power of Attorney or documentation providing authority to sign or act on the applicant's behalf. (See Part 1.)
- ☐ ☒ #5 If the transfer application proposes to change the point of diversion for a water right affecting the Eastern Snake Plain Aquifer (ESPA), attach the results of an ESPA analysis and a detailed mitigation plan to offset any depletions to hydraulically connected reaches of the Snake River. ESPA transfer spreadsheet and model grid labeled cells are available on the Department's website at http://www.idwr.idaho.gov/WaterManagement/WaterRights/WaterRightTransfers/wrt_default.htm.
- ☒ ☐ #6 Notarized statement of agreement or a statement on official letterhead signed by an authorized representative from each lien holder or other entity with financial interest in the water right(s) or land affected by the proposed transfer. (See Part 1.5.c.)
- ☒ * #7a Attach a map identifying the proposed point(s) of diversion, place(s) of use, and water diversion and distribution system details as described on the application. Include legal description labels. If only a portion of the right is proposed to be changed, identify the current location of the part of the existing right(s) proposed to be changed. (See Part 3A.)
- ☒ ☐ #7b If the transfer application proposes to change the place or purpose of use of an irrigation right attach a Geographic Information System (GIS) shape file, or an aerial photo or other image clearly delineating the location and extent of existing acres and changes to the place of use.
- ☒ ☐ #8a If the transfer application proposes to change the nature of use or period of use for one or more rights, provide documentation describing the extent of historic beneficial use for the water rights proposed to be transferred and document how enlargement will be avoided. (See Part 3B.)
- ☐ ☒ #8b If the transfer application proposes to change the place of use of a supplemental irrigation right, provide documentation regarding the historic use of the supplemental right(s) and availability or reliability of the primary right(s) being supplemented, both before and after the proposed change. (See Part 3C.)
- ☐ ☐ #9 Other. Please describe: _____

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STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Transfer No. _____

77374

MINIMUM REQUIREMENTS CHECKLIST
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- ☒ * Application for Transfer Part 3A is always required (see Attachment #7a below); Parts 3B and 3C must be completed for transfer applications proposing to change the nature of use of the water right(s) or proposing changes to supplemental right(s).
- ☒ * Correct fee submitted with transfer application form. (Fee schedule is on website and instructions for application for transfer.)

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- ☐ ☒ #3 Documentation of authority to make the change if the applicant is not the water right owner.
- ☐ ☒ #4 Power of Attorney or documentation providing authority to sign or act on the applicant's behalf. (See Part 1.)
- ☐ ☒ #5 If the transfer application proposes to change the point of diversion for a water right affecting the Eastern Snake Plain Aquifer (ESPA), attach the results of an ESPA analysis and a detailed mitigation plan to offset any depletions to hydraulically connected reaches of the Snake River. ESPA transfer spreadsheet and model grid labeled cells are available on the Department's website at http://www.idwr.idaho.gov/WaterManagement/WaterRights/WaterRightTransfers/wrt_default.htm.
- ☐ ☒ #6 Notarized statement of agreement or a statement on official letterhead signed by an authorized representative from each lien holder or other entity with financial interest in the water right(s) or land affected by the proposed transfer. (See Part 1.5.c.)
- ☒ * #7a Attach a map identifying the proposed point(s) of diversion, place(s) of use, and water diversion and distribution system details as described on the application. Include legal description labels. If only a portion of the right is proposed to be changed, identify the current location of the part of the existing right(s) proposed to be changed. (See Part 3A.)
- ☒ ☐ #7b If the transfer application proposes to change the place or purpose of use of an irrigation right attach a Geographic Information System (GIS) shape file, or an aerial photo or other image clearly delineating the location and extent of existing acres and changes to the place of use.
- ☒ ☐ #8a If the transfer application proposes to change the nature of use or period of use for one or more rights, provide documentation describing the extent of historic beneficial use for the water rights proposed to be transferred and document how enlargement will be avoided. (See Part 3B.)
- ☐ ☒ #8b If the transfer application proposes to change the place of use of a supplemental irrigation right, provide documentation regarding the historic use of the supplemental right(s) and availability or reliability of the primary right(s) being supplemented, both before and after the proposed change. (See Part 3C.)
- ☐ ☒ #9 Other. Please describe: _____

MAR 18 2011

Department of Water Resources
Eastern Region

RECEIVED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Transfer No. _____

MAR 18 2011

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1

Department of Water Resources

Name of Applicant(s) Martin W Halpern

Phone 214-957-6189

Mailing address PO Box 32, Argyle TX 76226

Email martywhalpern@yahoo.com

- ☐ If applicant is not an individual and not registered to do business in the State of Idaho, attach documentation identifying officers authorized to sign or act on behalf of the applicant. Label it **Attachment #1**.
- ☐ Attach water right ownership documentation if Department records do not show the transfer applicant as the current water right owner. Label it **Attachment #2a**.
- ☐ If the ownership of the water right will change as a result of the proposed transfer to a new place of use, attach documentation showing land and water right ownership at the new place of use. Include documentation for all affected land and owner(s). Label it **Attachment #2b**.
- ☐ Attach documentation of authority to make the proposed change if the applicant is not the water right owner. Label it **Attachment #3**.

Provide contact information below if a consultant, attorney, or any other person is representing the applicant in this transfer process.

☐ No Representative

Name of Representative Trent Roman

Phone 208-879-6121

Mailing address HC 82 Box 4023-4, Challis ID 83226

Email roman@custertel.net

- ☐ Send all correspondence for this application to the representative and not to the applicant.
- OR
- ☒ Send original correspondence to the applicant and copies to the representative.
- ☒ The representative may submit information for the applicant but is not authorized to sign for the applicant.
- OR
- ☐ The representative is authorized to sign for the applicant. Attach a Power of Attorney or other documentation providing authority to sign for the applicant and label it **Attachment #4**.

I hereby assert that no one will be injured by the proposed changes and that the proposed changes do not constitute an enlargement in use of the original right(s). The information contained in this application is true to the best of my knowledge. I understand that any willful misrepresentations made in this application may result in rejection of the application or cancellation of an approval.

Martin W Halpern
Signature of Applicant or Authorized Representative

Martin W Halpern
Print Name and Title if applicable

3/7/2011
Date

Signature of Applicant or Authorized Representative

Print Name and Title if applicable

Date

A. PURPOSE OF TRANSFER

1. ☐ Change point of diversion ☐ Add diversion point(s) ☒ Change place of use
☒ Change nature of use ☐ Change period of use ☐ Other _____
2. Describe your proposal in narrative form, including a detailed description of non-irrigation uses to justify amounts transferred (i.e. number of stock, etc.), and provide additional explanation of any other items on the application. Attach additional pages if necessary and label it **Part 1A.2. see attached**

Part 1A.2

The applicant proposes to construct a series of three ponds within currently irrigated lands. The sloping nature of the site requires the three ponds be tiered in elevation. The ponds will be constructed primarily by excavation with downstream banks of compacted fill and lined with bentonite. Surface area of the three ponds totals 1.0 acre; a maximum average depth of 6' is proposed creating storage of 6.0 acre/feet. Purpose of the ponds is irrigation storage, fire protection storage, wildlife storage, and aesthetic storage.

Two water rights #76-7067 and #76-4043 currently have overlapping points of use at the proposed location. Applicant further proposes elimination of 1.2 acres currently irrigated under right #76-4043 for a total 3.2:1 exchange of irrigated lands to surface water.

~~AMENDED~~
~~SUPPLEMENTED~~

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

B. DESCRIPTION OF RIGHTS AFTER THE REQUESTED CHANGES. IF THE RIGHTS ARE BEING SPLIT, DESCRIBE PORTIONS TO BE CHANGED AS THEY WOULD APPEAR AFTER THE REQUESTED CHANGES.

1.	Right Number	Amount (cfs/ac-ft)	Nature of Use	Period of Use	Source & Tributary
All or Part ☒ ☐	75-7067	.16cfs/28.3	irrigation storage	4/1 to 10/31	South gulch cr/ Big Hat cr
☐ ☐		.14cfs/24.8	irrigation from storage	4/1 to 10/31	South gulch cr/ Big Hat cr
☒ ☐	75-4043	.13cfs/61.9	irrigation storage	4/1 to 10/31	S. gulch cr/spring/ Big Hat cr
☐ ☐		.09cfs/42.8	irrigation from storage	4/1 to 10/31	S. gulch cr/spring/ Big Hat cr
☐ ☐		.02cfs/9.5	stockwater storage	1/1 to 12/31	S. gulch cr/spring/ Big Hat cr
☐ ☐		.02cfs/9.5	stockwater from stg.	1/1 to 12/31	S. gulch cr/spring/ Big Hat cr
☐ ☐				to	
☐ ☐				to	
☐ ☐				to	

Total authorized under rights .31 cfs and/or 99.7 ac-ft

2. Total amount of water proposed to be transferred or changed .31 cubic feet per second and/or 99.7 acre-feet per annum.

3. Point(s) of Diversion:

- ☒ No changes to point(s) of diversion are proposed-the following chart is therefore not completed. (Proceed to #4.)
☐ Attach Eastern Snake Plain Aquifer analysis if this transfer proposes to change a point of diversion affecting the ESPA.
Label it Attachment #5.

New ?	Lot	¼	¼	¼	Sec	Twp	Rge	County	Source	Local name or tag #

4. Place of use: (If irrigation, identify with number of acres irrigated per ¼ ¼ tract.)

- ☐ No changes to place of use are proposed-the following chart is therefore not completed. (Proceed to #5.)

Twp	Rge	Sec	NE ¼				NW ¼				SW ¼				SE ¼				Acre Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
7067	irrig	ation																	
17N	20E	14					.3	1.2	1.4	4.2									
4043	irrig	ation																	
17N	20E	14					1.2												
4043	stock	water																	
17N	20E	14					S												

Total Acres (for irrigation use) 8.3

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 1 Continued

5. General Information:

- a. Describe the complete diversion system, including how you will accommodate a measuring device and lockable controlling works should they be required now or in the future: see attached

- b. Who owns the property at the point(s) of diversion? BLM

If other than the applicant, describe the arrangement enabling the applicant to access the property for the diversion system: _____
Right-of-way grants Ref #'s IDI-12307, IDI-1230701

- c. Are the lands from which you propose to transfer the water right subject to any liens, deeds of trust, mortgages, or contracts?

If yes, ☒ Attach a notarized statement from the holder of the lien, deed of trust, mortgage or contract agreeing to the proposed changes on official letterhead signed by an authorized representative. Label it Attachment #6. List the name of the entity and type of lien: The aesthetic nature of ponds is of greater value than the irrigated lands they replace and WILL NOT adversely impact the value of the water right or the land where it is used, no statement is required. Mortgage # None held by N/A

It is the applicant's responsibility to provide notice to lien holder, trustee, mortgagor, or contract holder of the proposed changes that may impact or change the value of the water rights or affected real property. Any misrepresentation of legal encumbrance on this application may result in rejection of the application or cancellation of an approval.

- d. Describe the effect on the land now irrigated if the place or purpose of use is changed pursuant to this transfer: 1 acre of land irrigated under right 75-7067 will be replaced by surface water, 1 acre of land irrigated under right 75-4043 will be replaced by surface water, 1.2 acres of land irrigated under right 75-4043 will be retired to supplement surface water.

- e. Describe the use of any other water right(s) for the same purpose or land, or the same diversion system as right(s) proposed to be transferred at both the existing and proposed point(s) of diversion and place(s) use: NA

- f. To your knowledge, has/is any portion of the water right(s) proposed to be changed:

Yes No

- ☐ ☒ undergone a period of five or more consecutive years of non-use.
☐ ☒ currently leased to the Water Supply Bank,
☐ ☒ currently used in a mitigation plan limiting the use of water under the right, or
☐ ☒ currently enrolled in a Federal set-aside program limiting the use of water under the rights?

If yes, describe: _____

Part 1B.5a

Right 75-7067 currently consists of a steel collection box with a 4" PVC distribution line out to point of use. There is no measuring device or lockable controlling works; should they be required they would be best located at end of PVC distribution line near power supply. Current irrigation is gravity fed pressurized sprinkler heads, as an extension of PVC distribution line. After construction of proposed ponds, irrigation will be accomplished with a 5hp shallow well pressure pump from lowest pond to existing sprinkler heads.

Right 75-4043 currently consists of a wood collection box with a 6" PVC distribution line and a surface ditch filled by temporary rock diversion installed seasonally, out to point of use. There is no measuring device or lockable controlling works; should they be required they would be best located within the surface ditch after diversions combine. Current irrigation is gravity fed flood. After construction of proposed ponds, remaining irrigation will be accomplished with the same 5hp shallow well pressure pump from lowest ponds to new sprinkler heads.

SUPERCEDED
SUPERCEDED

PAGE 6 of 11

[Close](#)IDAHO DEPARTMENT OF WATER RESOURCES
Water Right Report

11/7/2010

WATER RIGHT NO. 75-7067

Owner Type	Name and Address
Current Owner	MARTIN W HALPERN PO BOX 32 ARGYLE, TX 76226 (214) 957-6189
Original Owner	EDWARD H CORBETT 41 CORBETT LN SALMON, ID 83467-5072

Priority Date: 03/09/1976

Basis: Decreed

Status: Active

Source	Tributary
SOUTH GULCH CREEK	BIG HAT CREEK

Beneficial Use	From	To	Diversion Rate	Volume
IRRIGATION	04/01/10	31	0.16 CFS	28.3 AFA
Total Diversion			0.16 CFS	

Location of Point(s) of Diversion:

SOUTH GULCH CREEK, SW/SESW Sec. 11 Township 17N Range 20E LEMHI County

Place(s) of use:

Place of Use Legal Description: IRRIGATION LEMHI County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
17N	20E	14		NENW	1.3		NWNW	1.2		SWNW	1.4		SENE	4.2

Total Acres: 8.1

Conditions of Approval:

- This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree. Section 42-1412(6), Idaho Code.
- 004 This right does not grant any right-of-way or easement across the land of another.
- 197 Upon specific notification by the Department, the right holder shall install and maintain acceptable measuring device(s), including data logger(s), at the authorized point(s) of diversion, in accordance with Department specifications.
- R59 This right when combined with all other rights shall provide no more than 0.02 cfs per acre or more than 3.5 afa per acre at the field headgate for irrigation of the lands above.
- U42 Place of use does not include federal public lands.

Dates:

Licensed Date:

Decreed Date: 02/02/2010

Permit Proof Due Date: 4/1/1981

Permit Proof Made Date: 2/13/1981

Permit Approved Date: 4/7/1976

Permit Moratorium Expiration Date:

Enlargement Use Priority Date:
Enlargement Statute Priority Date:
Water Supply Bank Enrollment Date Accepted:
Water Supply Bank Enrollment Date Removed:
Application Received Date: 03/08/1976
Protest Deadline Date:
Number of Protests: 0

PAGE 7 of 11

Other Information:
State or Federal: S
Owner Name Connector:
Water District Number:
Generic Max Rate per Acre:
Generic Max Volume per Acre:
Civil Case Number:
Old Case Number:
Decree Plaintiff:
Decree Defendant:
Swan Falls Trust or Nontrust:
Swan Falls Dismissed:
DLE Act Number:
Cary Act Number:
Mitigation Plan: False
Close

AMENDED
SUPERSEDED

PAGE 8 of 11

Close

IDAHO DEPARTMENT OF WATER RESOURCES
Water Right Report

11/7/2010

WATER RIGHT NO. 75-4043

Owner Type	Name and Address
Current Owner	MARTIN W HALPERN PO BOX 32 ARGYLE, TX 76226 (214) 957-6189
Original Owner	EDWARD H CORBETT 41 CORBETT LN SALMON, ID 83467-5072

Priority Date: 05/01/1952
Basis: Decreed
Status: Active

Source	Tributary
SOUTH GULCH CREEK	BIG HAT CREEK
SPRING	BIG HAT CREEK

Beneficial Use	From	To	Diversion Rate	Volume
IRRIGATION	04 01	10 31	0.13 CFS	
STOCKWATER	01 01	12 31	0.02 CFS	
Total Diversion			0.15 CFS	

Location of Point(s) of Diversion:

SOUTH GULCH CREEK SESW Sec. 11 Township 17N Range 20E LEMHI County
SPRING SESW Sec. 11 Township 17N Range 20E LEMHI County

IRRIGATION Use:
Acre Limit: 3.4

Place(s) of use:

Place of Use Legal Description: IRRIGATION LEMHI County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
17N	20E	14		NENW	3.1		SENE	0.3						

Place of Use Legal Description: STOCKWATER LEMHI County

Township	Range	Section	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres	Lot	Tract	Acres
17N	20E	14		NENW			SENE							

Total Acres: 3.4

Conditions of Approval:

- This partial decree is subject to such general provisions necessary for the definition of the rights or for the efficient administration of
1. C18 the water rights as may be ultimately determined by the Court at a point in time no later than the entry of a final unified decree.
Section 42-1412(6), Idaho Code.
 2. N05 The quantity of water under this right for stockwater use shall not exceed 13,000 gallons per day.
 3. N08 The quantity of water decreed for this water right for stockwater use is not a determination of historical beneficial use.

4. U42 Place of use does not include federal public lands

PAGE 9 of 11

Dates:

Licensed Date:

Decreed Date: 09/10/2008

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Water Supply Bank Enrollment Date Accepted:

Water Supply Bank Enrollment Date Removed:

Application Received Date:

Protest Deadline Date:

Number of Protests: 0

Other Information:

State or Federal: S

Owner Name Connector:

Water District Number:

Generic Max Rate per Acre:

Generic Max Volume per Acre:

Civil Case Number:

Old Case Number:

Decree Plaintiff:

Decree Defendant:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Cary Act Number:

Mitigation Plan: False

Close

AMENDED
SUPERSEDED

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3

A. PLAT MAP (See Part 3A of Instructions for application for transfer for complete requirements.)

- ☒ Attach a map of the diversion, measurement, control, and distribution system. Label it **Attachment #7a**.
- ☒ If the transfer application proposes to change the place or purpose of use of an irrigation right attach a Geographic Information System (GIS) shape file, or an aerial photo or other image clearly delineating the location and extent of existing acres and changes to the place of use. Label it **Attachment #7b**. If the place of use currently consists of a permissible place of use, then the attachment is not required if the application contains a clear statement that the boundaries for the place of use are not proposed to be changed by the transfer and the total number of irrigated acres within the place of use before and after the transfer is clearly stated.

B. CHANGES IN NATURE OF USE (Water Balance)

- ☒ If you propose to change the nature of use or period of use of all or part of the rights(s) listed in this application, attach documentation describing the extent of historic beneficial use of the portion of the right(s) proposed to be changed. Also attach documentation showing that the portion of the right(s) to be changed will not be enlarged in rate, volume, or consumptive use through the proposed change. Label it **Attachment #8a**.

C. PLACE OF USE CHANGES TO SUPPLEMENTAL IRRIGATION RIGHTS

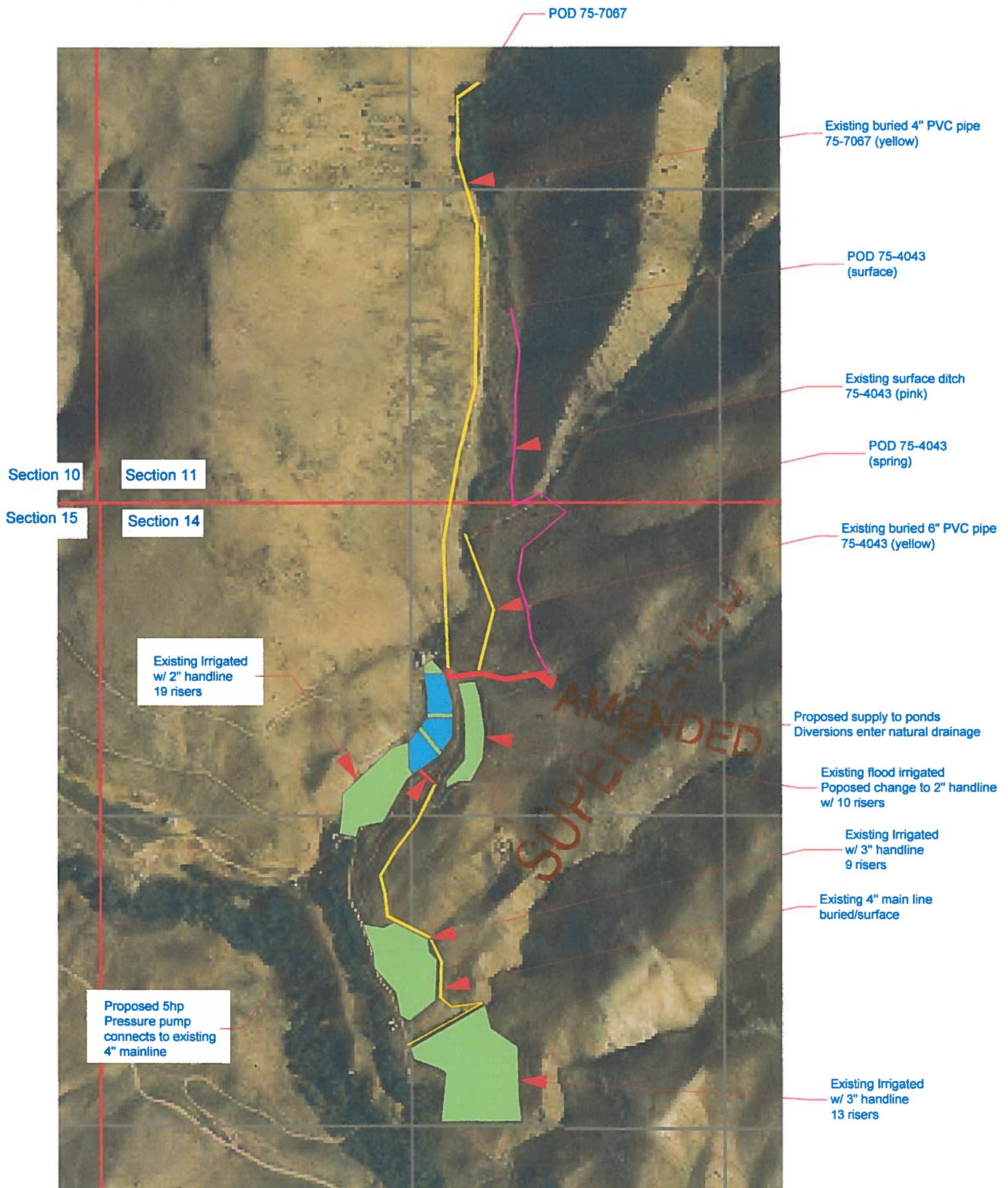
- ☐ If you propose to change the place of use of a supplemental irrigation right, answer below and attach supporting documentation. Label it **Attachment #8b**.

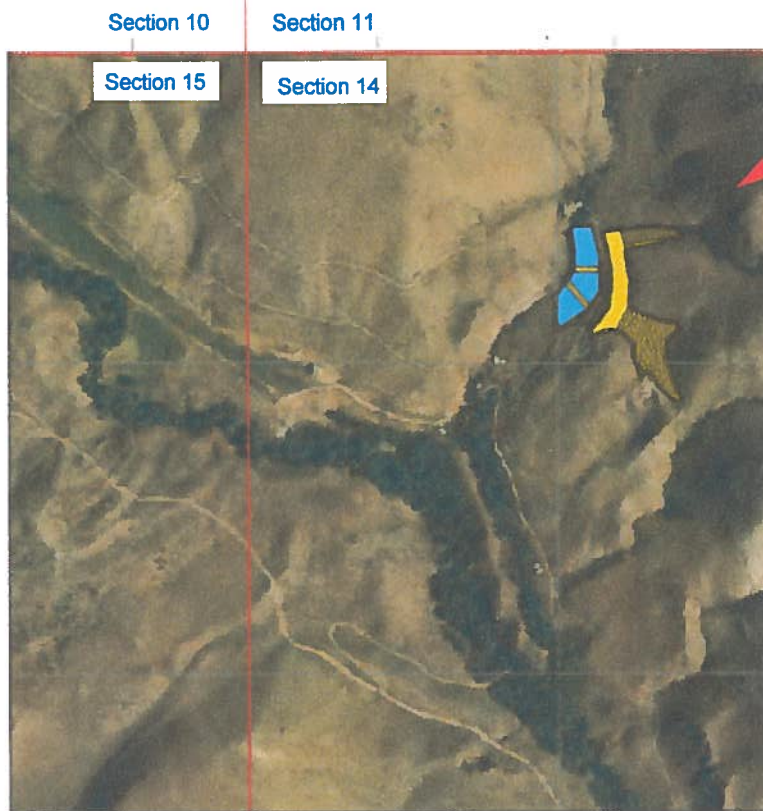
1. Describe how the supplemental water rights have been used historically in conjunction with other water rights at the existing place of use. Describe the time during the irrigation season that the supplemental rights have been used. Include information about the availability or reliability of the primary right(s) being supplemented, both before and after the change. If the applicant is proposing to change a supplemental irrigation right to a primary right, provide the information required on Part 3B above.: _____

AMENDED
SUPPLEMENTED

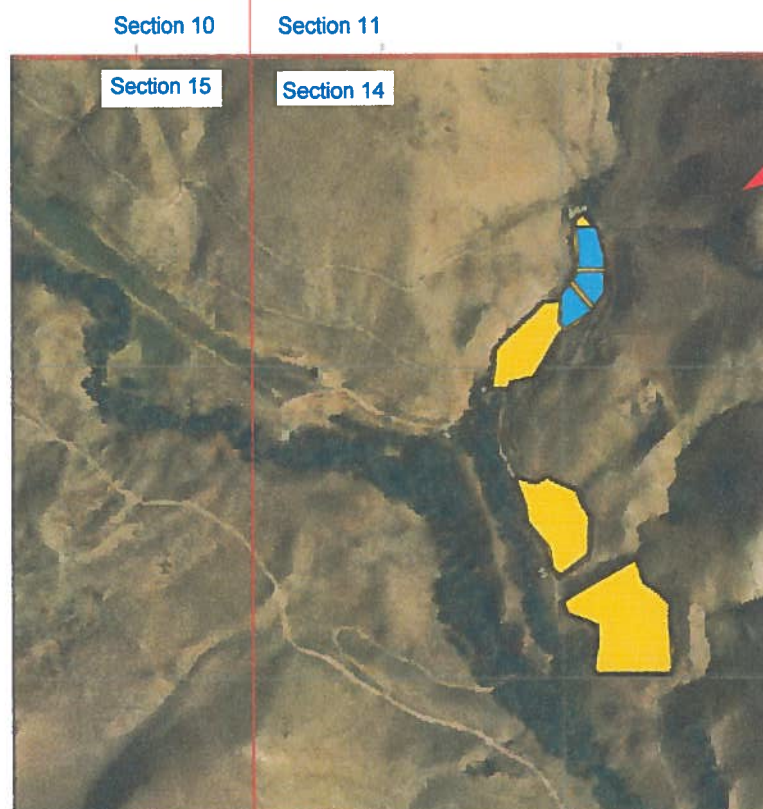
FOR DEPARTMENT USE ONLY

Transfer contains _____ pages and _____ attachments.
Received by _____ Date _____ Prelim. Check by _____ Date _____
Fee Paid _____ Date _____ Received by _____ Receipt # _____
Add'l Fee Paid _____ Date _____ Received by _____ Receipt # _____





Existing POU right # 75-4043
17N 20E sec 14 NENW, SENW
Existing 3.4 acres irrigated mapped as yellow
Proposed 1 acre ponds overlaid as blue
Proposed 1.2 acres to be retired hatched



Existing POU right # 75-7067
17N 20E sec 14 NENW, SENW, SWNW, NWNW
Existing 8.1 acres irrigated mapped as yellow
Proposed 1 acre ponds overlaid as blue

AMENDED
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Pond Consumptive use calculations

Attachment #8a page 1 of 7

Month	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Total
Annual FWS	30	30	30	30	30	30	30	30	30	30	30	30	30
Evaporation (inches)													
Monthly distribution (%)	1	2	4	7	12	15	19	16	11	6	4	3	100
Monthly FWS evaporation (in/mo)	0.3	0.6	1.2	2.1	3.6	4.5	5.7	4.6	3.3	1.8	1.2	0.9	30
Avg. Total Precipitation (in/mo)	0.6	0.5	0.5	0.7	1.2	1.5	0.8	0.7	0.8	0.6	0.7	0.6	9.2
Pond loss (evap-precip, in)	0.0	0.1	0.7	1.4	2.4	3.0	4.9	3.9	2.5	1.2	0.5	0.3	20.9
Pond surface area (acres)	1	1	1	1	1	1	1	1	1	1	1	1	1
Total Pond loss (ac-in)	0.0	0.1	0.7	1.4	2.4	3.0	4.9	3.9	2.5	1.2	0.5	0.3	20.9
Total Pond loss (ac-ft)	0.0	0.0	0.1	0.1	0.2	0.3	0.4	0.3	0.2	0.1	0.0	0.0	1.7

Irrigation Consumption for low management grass pasture

Mean Irrigation Req. (mm/season) 531

Mean Irrigation Req. (in/season) 20.9

Mean Irrigation Req. (ft/season) 1.7

Total acres required to be retired from Irrigation to provide for Pond evaporation

1.0

Bentonite lined 1 acre Pond loss through seepage (ft/season)

0.6

Proposed Flow through volume (ft/season)

2.0

Total acres required to be retired from Irrigation to provide for Pond seepage and flow through

1.5

Total acres required to be retired / actually being retired

2.5 / 3.2

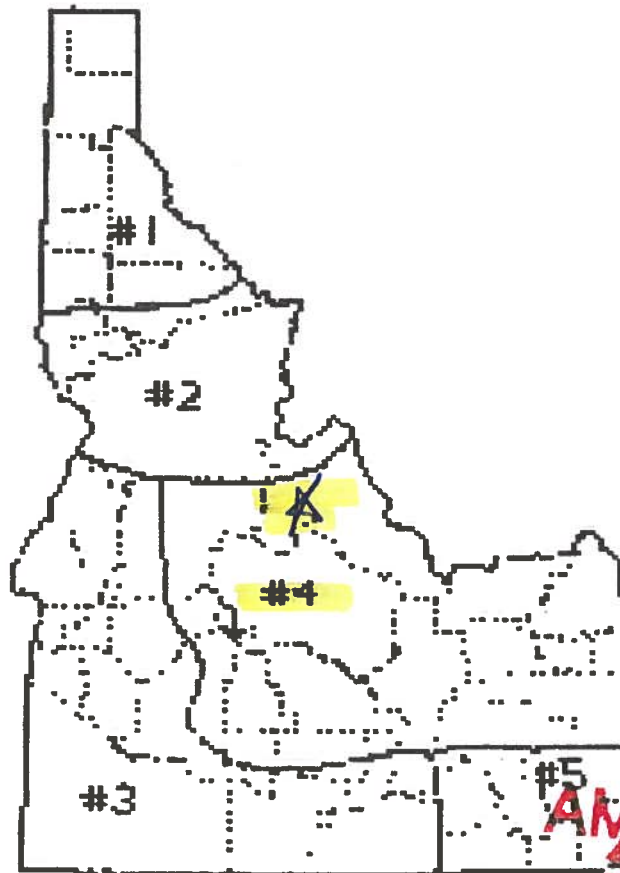
AMENDED
12/15

MONTHLY SHALLOW POND EVAPORATION IN IDAHO

Molnau, Myron, Kpordze, Kojo C.S., and Craine, Katherine L., 1992. Monthly shallow pond evaporation in Idaho. ASAE paper PNW 92-111
 (http://snow.ag.uidaho.edu/publications/pond_evap/pond.html#TABLE%201)

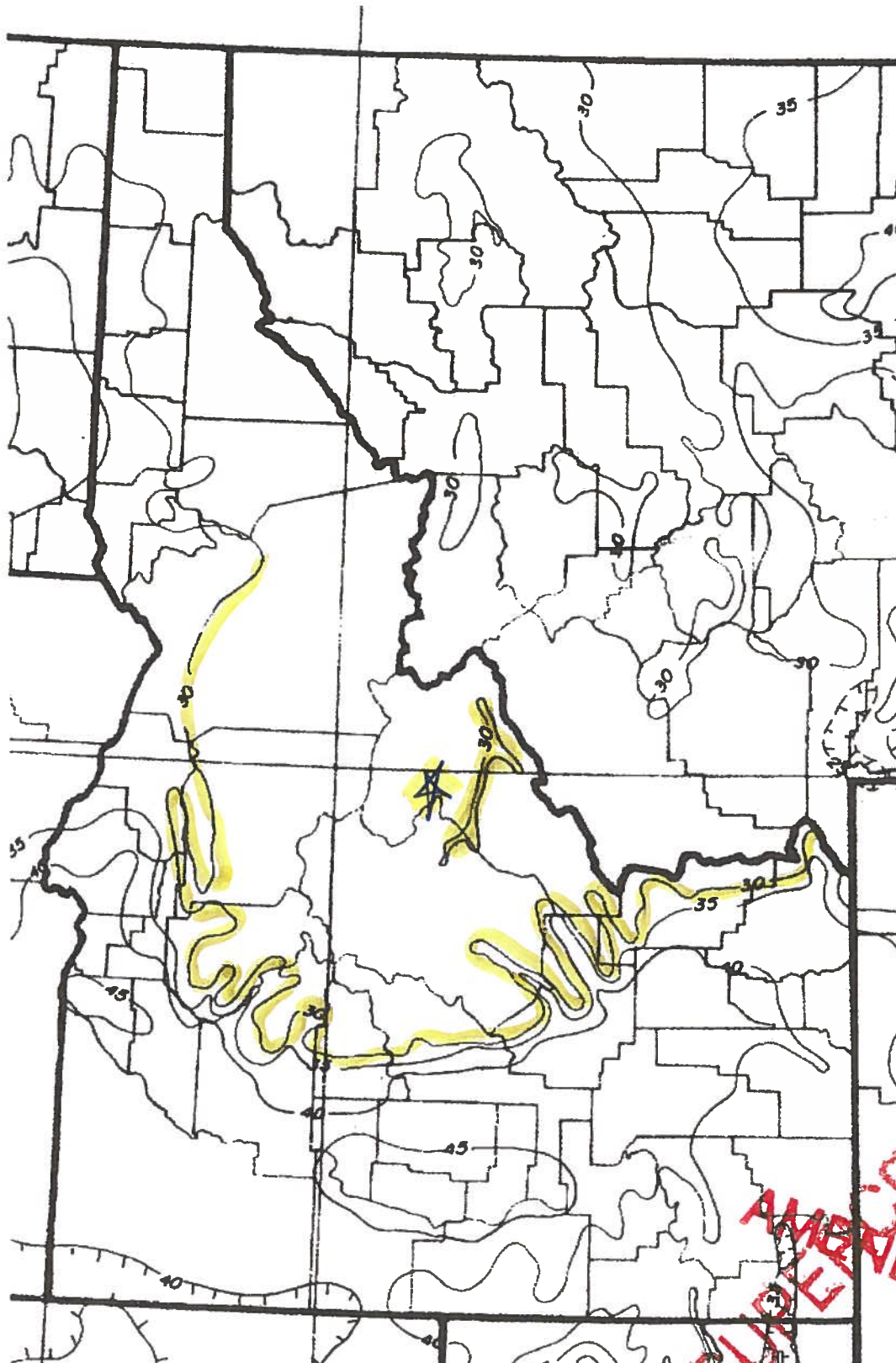
TABLE 1. Monthly shallow lake evaporation percentages for Idaho to be used with the map showing regions of monthly FWS evaporation

Area	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.0	1.5	3	9	12	14	19	18	11	6	4	1.5
2	0.5	1.5	3	8	12	15	19	17	11	6	4	3
3	0.5	1.5	4	8	14	15	17	16	10	6	5	3
4	1.0	2.0	4	7	12	15	19	16	11	6	4	3
5	1.0	3.0	5	10	12	14	16	15	10	6	5	3



Regions of Monthly FWS Evaporation

Annual FWS Evaporation Map



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ATTACHMENT 8A
4 of 7**SALMON AIRPORT, IDAHO (108076)****Period of Record Monthly Climate Summary****Period of Record : 11/5/1905 to 12/31/1967**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Max. Temperature (F)	29.5	37.4	48.5	61.2	70.4	77.5	88.3	86.4	75.7	62.7	44.5	32.6	59.6
Average Min. Temperature (F)	6.7	13.2	22.0	29.5	36.8	43.3	47.5	44.6	37.1	28.4	20.0	11.9	28.4
Average Total Precipitation (in.)	0.63	0.47	0.50	0.67	1.22	1.46	0.75	0.65	0.80	0.64	0.65	0.63	9.05
Average Total SnowFall (in.)	6.0	4.6	3.4	1.2	0.0	0.1	0.0	0.0	0.0	0.4	2.8	6.5	25.0
Average Snow Depth (in.)	4	3	1	0	0	0	0	0	0	0	0	2	1

Percent of possible observations for period of record.

Max. Temp.: 96.2% Min. Temp.: 97.4% Precipitation: 98.1% Snowfall: 25.9% Snow Depth: 58.8%
Check or for more detail about data completeness.*Western Regional Climate Center.*

SUPERSEDED

ATTACHMENT 8A
5 of 7

ETIdaho 2009: Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison@kimberly.uidaho.edu Copyright 2010, University of Idaho.

Salmon (NWS --108076)

Statistics based on thirty

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or Open Office spreadsheet to plot or otherwise work with this data.

Grass Pasture - low management															
Precipitation Deficit															
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Non Growing Season ^b	Annual
Mean	mm/day												mm		
Monthly ^c	-0.23	-0.01	0.13	1.29	2.78	3.70	4.36	3.82	1.97	0.29	-0.47	-0.33	560	-29	531
15-Day Moving Average ^d	-0.24	-0.04	0.11	1.26	2.82	3.68	4.40	3.76	1.99	0.30	-0.43	-0.29			
7-Day Moving Average ^e	-0.24	-0.03	0.12	1.27	2.77	3.69	4.40	3.80	1.95	0.29	-0.46	-0.31			
3-Day Moving Average ^f	-0.23	-0.01	0.13	1.28	2.77	3.68	4.38	3.82	1.96	0.29	-0.47	-0.33			
Standard Deviation	mm/day												mm		
Monthly	0.42	0.15	0.26	0.73	1.14	0.81	1.06	0.76	0.64	0.65	0.36	0.35	61	18	56
15-Day Moving Average	0.41	0.22	0.24	0.82	1.17	1.01	0.98	0.83	0.86	0.57	0.45	0.30			
7-Day Moving Average	0.56	0.33	0.36	1.05	1.70	1.56	1.33	1.15	1.19	0.89	0.68	0.47			
3-Day Moving Average	0.75	0.44	0.58	1.46	2.32	2.24	2.05	1.61	1.71	1.32	1.03	0.70			
20% Exceedance	mm/day												mm		
Monthly	0.01	0.08	0.26	1.94	3.47	4.44	5.01	4.28	2.49	0.60	-0.17	-0.12	610	44	578
15-Day Moving Average	0.07	0.16	0.46	2.50	4.68	5.17	5.49	4.78	3.09	1.33	0.06	0.01			
7-Day Moving Average	0.11	0.32	0.62	3.18	5.67	6.13	6.29	5.73	3.92	1.93	0.17	0.07			
3-Day Moving Average	0.14	0.46	1.05	3.95	6.86	7.51	7.73	7.25	4.94	2.12	0.27	0.11			

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80% Exceedance	mm/day												mm		
Monthly	-0.48	-0.06	-0.01	0.61	2.14	2.89	3.73	3.27	1.24	-0.12	-0.72	-0.53	497	-41	472
15-Day Moving Average	-0.83	-0.23	-0.31	0.00	0.99	2.02	2.46	2.31	0.43	-0.62	-1.36	-0.92			
7-Day Moving Average	-1.57	-0.64	-0.68	-0.61	-0.98	0.29	0.84	1.19	-1.18	-1.54	-2.25	-1.45			
3-Day Moving Average	-3.04	-1.36	-1.63	-2.55	-3.76	-3.53	-3.63	-1.14	-5.00	-3.50	-4.13	-2.80			
Ave Highest P _{def}	mm/day												--		
15-Day Moving Average ^g	0.03	0.11	0.33	1.89	3.85	4.55	5.08	4.40	2.69	0.82	0.03	0.01			
7-Day Moving Average ^h	0.07	0.26	0.57	2.66	4.89	5.61	5.94	5.32	3.39	1.34	0.12	0.05			
3-Day Moving Average ⁱ	0.12	0.36	0.88	3.30	6.05	6.80	7.27	6.59	4.21	1.71	0.21	0.09			
Ave Lowest P _{def}	mm/day												--		
15-Day Moving Average ^g	-0.46	-0.15	-0.10	0.66	1.91	2.78	3.69	3.00	1.27	-0.18	-0.77	-0.54			
7-Day Moving Average ^h	-0.84	-0.39	-0.44	0.11	0.44	1.53	2.67	2.26	0.29	-0.85	-1.35	-0.96			
3-Day Moving Average ⁱ	-1.59	-0.81	-1.12	-1.17	-1.93	-0.72	0.04	0.72	-1.60	-2.19	-2.54	-1.75			
Special normal distribution parameters for monthly, seasonal, and annual intervals													--		
Skew	-0.42	-2.29	0.47	0.67	-0.15	-0.24	-0.23	-0.31	-0.35	0.09	-1.20	-0.23	-0.01	-0.29	0.01
Kurtosis	0.86	8.15	1.32	2.74	0.67	2.18	0.68	0.76	2.51	0.85	4.16	0.70	2.24	3.49	2.37

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.

^b Nongrowing Season: This is usually the time from a killing frost or harvest in the fall to the of green up in the spring. It is not applicable for entries without a growing season.

^c Mean of the average daily value for month

^d Mean of the fourteen 15-day period averages contained in the month

^e Mean of the twenty three 7-day period averages contained in the month

^f Mean of the twenty seven 3-day period averages contained in the month

^g Mean of the highest/lowest 15-day period average in month

^h Mean of the highest/lowest 7-day period average in month

ⁱ Mean of the highest/lowest 3-day period average in month

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This work and report were prepared by the University of Idaho Research and Extension Center at Kimberly, Idaho under contract with the Idaho Department of Water Resources. Work was supported by funding from IDWR and the Idaho Agricultural Experiment Station and Idaho Engineering Experiment Station. The authors gratefully acknowledge the long-term evapotranspiration data collection and long-standing advice provided by Dr. James L. Wright, USDA-ARS Kimberly (ret.), the more than two decades of high quality agricultural weather data collection by the U.S. Bureau of Reclamation AgriMet system, and the very long-standing, routine data collection by the hundreds of cooperative weather station volunteers across the state who, for more than one-hundred years, have faithfully observed daily air temperature and precipitation.

The citation for the evapotranspiration data used from this site should be: *Allen, Richard G. and Clarence W. Robison, 2009. Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho: Supplement updating the Time Series through December 2008, Research Technical Completion Report, Kimberly Research and Extension Center, University of Idaho, Moscow, ID.*

Questions regarding the data should be addressed to _____ or _____, University of Idaho, Kimberly Research and Extension Center, 3793 North 3600 East, Kimberly, ID 83341. Telephone (208)-423-6610

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