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JUN 0 1 2020

JUL 15 2020

7/27/20  
- 21 2020  
AMENDED

FORM 202 (REV. 09/2020)

WATER RESOURCES  
WESTERN REGION

COMPLETE  
WATER RESOURCES  
WESTERN REGION

WATER RESOURCES  
WESTERN REGION

STATE OF IDAHO

Ident. No. 65-23960

WATER RESOURCES  
WESTERN REGION

DEPARTMENT OF WATER RESOURCES

# APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

1. Name of applicant(s) ROBERT ANNO Phone 541-601-8907  
 Mailing address 3954 W. QUAIL RIDGE DR. City BOISE  
 State IDAHO ZIP 83703 Email robanno112@gmail.com

2. Name of representative, if any N/A Phone \_\_\_\_\_  
 Mailing address \_\_\_\_\_ City \_\_\_\_\_  
 State \_\_\_\_\_ ZIP \_\_\_\_\_ Email \_\_\_\_\_

a.  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.

b.  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.

3. Source of water supply GROUNDED WATER which is a tributary of (LAND OWNED WITH RIVER

4. Location of point(s) of diversion: FRONTAGE-MIDDLE FORK PAYETTE RIVER

Twp	Rge	Sec	Govt Lot	1/4	1/4	1/4	County	Source	Local name or tag #
10N	04E	34		SW	SE		BOISE	MIDDLE FORK	
				SWSE				PAYETTE	
10N	04E	34		SW	SE		Boise	Ground Water	

5. Water will be used for the following purposes:

Amount .17 CFS for Diversion to Storage (initial fill) purposes from April to October (both dates inclusive)  
 (cfs or acre-feet per year)

Amount .17 CFS for Aesthetics (flow through) purposes from April to October (both dates inclusive)  
 (cfs or acre-feet per year)

Amount 2.4 AF for Aesthetic Storage (pond) purposes from April to Oct (both dates inclusive) yearly  
 (cfs or acre-feet per year)

Amount \_\_\_\_\_ for \_\_\_\_\_ purposes from \_\_\_\_\_ to \_\_\_\_\_ (both dates inclusive)  
 (cfs or acre-feet per year)

6. Total quantity to be appropriated is (a) .17 CFS cubic feet per second (cfs) and/or (b) 2.4 acre-feet per year (af).

7. Proposed diverting works:

a. Describe type and size of devices used to divert water from the source. Pump (SIZE TBA) ONLY TO FLOW WATER IN AND OUT A MINIMAL DISTANCE FOR AESTHETICS AND POND FLOW.

b. Height of storage dam 0 feet; active reservoir capacity \_\_\_\_\_ acre-feet; total reservoir capacity \_\_\_\_\_ acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 12. For dams 10 feet or more in height AND having a storage capacity of 50 acre-feet or more, submit a separate Application for Construction or Enlargement of a New or Existing Dam. Application required?  Yes  No

c. Proposed well diameter is \_\_\_\_\_ inches; proposed depth of well is \_\_\_\_\_ feet.

d. Is ground water with a temperature of greater than 85°F being sought?  Yes  No

e. If well is already drilled, when? \_\_\_\_\_; drilling firm \_\_\_\_\_; well was drilled for (well owner) \_\_\_\_\_; Drilling Permit No. \_\_\_\_\_.

Received by LE Date 06/01/2020 Time 12:30pm Preliminary check by AK  
 Fee \$ 250.00 Received by LE Receipt No. W048513 Date 07/15/2020

8. Description of proposed uses (if irrigation only, go to item 9):
- a. Hydropower; show total feet of head and proposed capacity in kW. \_\_\_\_\_
  - b. Stockwatering; list number and kind of livestock. \_\_\_\_\_
  - c. Municipal; must complete and attach the Municipal Water Right Application Checklist.
  - d. Domestic; show number of households \_\_\_\_\_
  - e. Other; describe fully. build approx 1/5 acre pond for fill for pad (BARN)  
Flow is only needed to prevent stagnation, enhance aesthetics.

9. Description of place of use:
- a. If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
  - b. If water is used for other purposes, place a symbol of the use (example: D for Domestic) in the corresponding place of use below. See instructions for standard symbols.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE													
10N	04E	34																1/5	

Total number of acres to be irrigated: \_\_\_\_\_

10. Describe any other water rights used for the same purposes as described above. Include water delivered by a municipality, canal company, or irrigation district. If this application is for domestic purposes, do you intend to use this water, water from another source, or both, to irrigate your lawn, garden, and/or landscaping? yes, for a few trees  
in area around pond

11. a. Who owns the property at the point of diversion? Applicant  
 b. Who owns the land to be irrigated or place of use? Applicant  
 c. If the property is owned by a person other than the applicant, describe the arrangement enabling the applicant to make this filing: \_\_\_\_\_

12. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary. SEE ATTACHED POND IS APPROX 75 YDS  
FROM RIVER EDGE. POND WILL SLOPE TO APPROX 8-10  
FT DEEP IN MIDDLE.

13. Time required for completion of works and application of water to proposed beneficial use is 1 years (minimum 1 year).

14. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8 1/2" x 11" map or maps clearly identifying the proposed point of diversion, place of use, section #, township & range. The map scale shall not be less than two (2) inches equal to one (1) mile.

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  
ROBERT R. ANNO  
 Print Name (and title, if applicable)

Signature of Applicant  
 \_\_\_\_\_  
 Print Name (and title, if applicable)

Map showing points of diversion and place of use  
Add to Application for Permit



ATTACHED ARE COPIES OF ASSESSMENT FOR PROPERTIES. LOT # 3 WILL HAVE POND.



Imagery ©2019 Google, Imagery ©2019 Maxar Technologies, USDA Farm Service Agency, Map data ©2019 50 m

Pond would be about a 1/5 acre. For pad fill on barn located close. RIVER NOT IMPACTED. ONLY flow would be as needed by pump in and gravity flow back to the RIVER OVER RIVER ROCK (NATURAL RIVER MATERIAL)

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JUN 01 2020

JUL 15 2020

W/COMPLETE WATER RESOURCES WESTERN REGION

COMPLETE WATER RESOURCES WESTERN REGION

FORM 200 (REV. 09/2020)

STATE OF IDAHO DEPARTMENT OF WATER RESOURCES

Ident. No. 65-23960

WATER RESOURCES WESTERN REGION

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

COPY

1. Name of applicant(s) ROBERT ANNO Phone 541-601-8107
Mailing address 3954 W. QUAIL RIDGE DR. City Boise
State IDAHO ZIP 83703 Email robanno12@gmail.com

2. Name of representative, if any N/A
Mailing address
State ZIP Email

- a. Send all correspondence for this application to the representative and not to the applicant OR
b. The representative may submit information for the applicant but is not authorized to sign for the applicant OR

3. Source of water supply GROUND WATER which is a tributary of (LAND OWNED WITH RIVER

4. Location of point(s) of diversion: FRONTIER - MIDDLE FORK FAYETTE RIVER

Table with columns: Twp, Rge, Sec, Govt Lot, %, %, %, County, Source, Local name or tag #. Row 1: 10N, 04E, 34, SWSE, MIDDLE FORK, FAYETTE.

5. Water will be used for the following purposes:
Amount 2.4 AF for Diversion to Storage purposes from to
Amount 1.00 or less for Aesthetics purposes from April to October
Amount 2.4 AF for Aesthetic Storage purposes from April to Oct

6. Total quantity to be appropriated is (a) < 1.00 cubic feet per second (cfs) and/or (b) 2.4 acre-feet per year (af).

7. Proposed diverting works:
a. Describe type and size of devices used to divert water from the source. POND (SIZE 7 B.A) ONLY TO FLOW WATER IN AND OUT A MINIMAL DISTANCE FOR AESTHETICS AND POND FLOW.
b. Height of storage dam feet; active reservoir capacity acre-feet; total reservoir capacity acre-feet.
c. Proposed well diameter is inches; proposed depth of well is feet.
d. Is ground water with a temperature of greater than 85°F being sought?
e. If well is already drilled, when?; drilling firm; well was drilled for (well owner); Drilling Permit No.

For Department Use
Received by LE Date 06/01/2020 Time 12:30pm Preliminary check by AK
Fee \$ 250.00 Received by LE Receipt No. W048513 Date 07/15/2020





**Chris Juszczak**  
 Boise County Assessor  
 420 Main Street  
 Idaho City, ID 83631

**2019**  
**ASSESSMENT NOTICE**

THIS IS NOT A BILL.  
 DO NOT PAY.

**FORWARDING SERVICE REQUESTED**

**PARCEL DESCRIPTION:**

For any questions, please notify the Assessor's Office immediately

Assessor's Telephone Number: (208) 392-4415

Parcel Address:

T10N R4E SEC 34  
 PINE BEACH ESTATES PLAT  
 SEGREGATION SUBDIVISION  
 LOT 3

ID 000-

3136 RP10N04E347722 \*\*AUTO\*\*5-DIGIT 83703 13



Appeals of your property value must be filed in writing, on a form provided by the County, by:

June 24, 2019

ANNO NANCY JO  
 ANNO ROBERT ROY  
 3954 W QUAIL RIDGE DR  
 BOISE ID 83703-3855

Tax Code Area: 024000

Parcel Number: RP10N04E347722

**ASSESSED VALUE OF YOUR PROPERTY**

CURRENT DESCRIPTION	LOTS/ACRES	LAST YEAR'S VALUE	CURRENT YEAR'S VALUE
3 NON IRRIGATED AGRICULTURAL	2.620	1,258	1,258
<b>SUBTOTAL:</b>	2.620	1,258	1,258
<b>LESS HOMEOWNERS EXEMPTION:</b>		0	0
<b>NET TAXABLE PROPERTY VALUE:</b>		1,258	1,258

These values may not include personal property values. Taxes are based on the values shown on this Notice and on the Budgets of the taxing districts.

IF YOU SHOULD BE RECEIVING A HOMEOWNERS EXEMPTION, MAKE SURE IT IS REFLECTED.

**TAXING DISTRICT INFORMATION**

TAXING DISTRICTS	DISTRICT TELEPHONE NUMBER	DATE OF PUBLIC BUDGET HEARING
COUNTY	(208) 392-4431	8-27-2019
SCHOOL GV #71	(208) 462-3756	5-14-2019
GV FIRE DIST.	(208) 462-3175	8-20-2019
G V LIBRARY	(208) 462-3317	8-14-2019
GV HOSP DIST		

Values reflected are as of January 1, 2019

THIS IS NOT A BILL. DO NOT PAY.

See the back of this Notice for details



**Chris Juszczak**  
 Boise County Assessor  
 420 Main Street  
 Idaho City, ID 83631

**2019**  
**ASSESSMENT NOTICE**

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 DO NOT PAY.

**FORWARDING SERVICE REQUESTED**

**PARCEL DESCRIPTION:**

For any questions, please notify the Assessor's Office immediately

Assessor's Telephone Number: (208) 392-4415

Parcel Address:

T10N R4E SEC 34  
 PINE BEACH ESTATES PLAT  
 SEGREGATION SUBDIVISION  
 LOT 4

ID 000-

3137 RP10N04E347723 \*\*AUTO\*\*5-DIGIT 83703 13



Appeals of your property value must be filed in writing, on a form provided by the County, by:

June 24, 2019

ANNO ROBERT ROY  
 ANNO NANCY JO  
 3954 W QUAIL RIDGE DR  
 BOISE ID 83703-3855

Tax Code Area: 024000

Parcel Number: RP10N04E347723

**ASSESSED VALUE OF YOUR PROPERTY**

CURRENT DESCRIPTION	LOTS/ACRES	LAST YEAR'S VALUE	CURRENT YEAR'S VALUE
3 NON IRRIGATED AGRICULTURAL	2.780	1,334	1,334
<b>SUBTOTAL:</b>	2.780	1,334	1,334
<b>LESS HOMEOWNERS EXEMPTION:</b>		0	0
<b>NET TAXABLE PROPERTY VALUE:</b>		1,334	1,334

These values may not include personal property values. Taxes are based on the values shown on this Notice and on the Budgets of the taxing districts.

IF YOU SHOULD BE RECEIVING A HOMEOWNERS EXEMPTION, MAKE SURE IT IS REFLECTED.

**TAXING DISTRICT INFORMATION**

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G V LIBRARY	(208) 462-3317	8-14-2019
GV HOSP DIST		

Values reflected are as of January 1, 2019

THIS IS NOT A BILL. DO NOT PAY.

See the back of this Notice for details

## Thornecroft, Kensie

---

**From:** Thornecroft, Kensie  
**Sent:** Thursday, July 30, 2020 10:56 AM  
**To:** Water District 65  
**Subject:** Application for Permit of 65-23960  
**Attachments:** Watermaster Recommendation Form.docx

Watermaster:

The Idaho Department of Water Resources (IDWR) is seeking written comment and/or recommendations from you regarding the above referenced water right application. You can find a copy of the application at: <https://idwr.idaho.gov/apps/ExtSearch/WRAJSearch/WRADJSearch.aspx>. Please review the application, then complete the enclosed recommendation form and return it to this office by **08/24/2020**.

If the application is approved, IDWR will include appropriate standard conditions of approval for a water right located within a water district, such as regulation by the watermaster, lockable controlling works, and/or measuring devices. Any special conditions or other concerns you have related to this application should be specifically addressed in your recommendation.

IDWR can finish reviewing an unprotested application as soon as the protest period has past. Your prompt response to this request will ensure that your recommendation can be considered. If IDWR has not received your written recommendation within by **08/24/2020**, IDWR will presume that you do not oppose approval of the application and that you have no comments for IDWR to consider.

Please contact this office if you have any questions regarding the application.



State of Idaho

DEPARTMENT OF WATER RESOURCES

WESTERN Region • 2735 W AIRPORT WAY • BOISE, ID 83705-5082

Phone: (208)334-2190 • Fax: (208)334-2348 • Website: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

Brad Little  
Governor

Gary Spackman  
Director

July 30, 2020

ROBERT ANNO  
3954 W QUAIL RIDGE DR  
BOISE, ID 83703-3855

**RE: Application for Permit No. 65-23960**

Dear Applicant(s):

The Department of Water Resources has received your water right application. Please refer to the number referenced above in all future correspondence regarding this application.

A legal notice of the application has been prepared and is scheduled for publication in the IDAHO WORLD on 8/5/2020 and 8/12/2020. Protests to this application may be submitted for a period ending ten (10) days after the second publication.

If the application is protested, you will be sent a copy of each protest. All protests must be resolved before the application can be considered for approval. If the protest(s) cannot be resolved voluntarily, the Department will conduct a conference and/or hearing on the matter.

If the application is not protested, the Department will process your application and notify you of any action taken on the application. If your application is approved, the Department will send you a copy of the permit.

Please contact this office if you have any questions regarding the application.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Kensie Thorneycroft', written over a light blue circular stamp.

Kensie Thorneycroft  
Administrative Assistant

## Thornycroft, Kensie

---

**From:** Thornycroft, Kensie  
**Sent:** Thursday, July 30, 2020 10:50 AM  
**To:** Eileen Capson  
**Subject:** Boise Legal Notice  
**Attachments:** CoverLetter.docx; LegalNotice.docx

**Follow Up Flag:** Follow up  
**Flag Status:** Completed

Good Morning Legal Clerk,

I am sending you the new legal notices, please send confirmation to my email.

Please see the attached ad for publication on 08/05/2020 and 08/12/2020.

Please confirm these are okay to publish as shown.

Kensie Thornycroft  
Administrative Assistant  
IDWR Western Region  
208-334-2190



**State of Idaho**

**DEPARTMENT OF WATER RESOURCES**

WESTERN Region • 2735 W AIRPORT WAY • BOISE, ID 83705-5082

Phone: (208)334-2190 • Fax: (208)334-2348 • Website: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

---

Brad Little  
Governor

Gary Spackman  
Director

July 30, 2020

LEGAL NOTICE DEPARTMENT  
IDAHO WORLD  
PO BOX 50248

RE: Application for Permit No. 65-23960, 65-23963

Dear Legal Notice Department:

Please publish the enclosed legal notice on the dates indicated (once a week for two consecutive weekly issues). If you cannot publish the notice on the proposed dates, please contact us immediately.

An affidavit of publication must be submitted to the Department along with the publication bill. Please send the affidavit and bill to this office before 8/24/2020. Your cooperation is appreciated.

Sincerely,

Kensie Thorneycroft  
Administrative Assistant

Enclosure(s)

The following application(s) have been filed to appropriate the public waters of the State of Idaho:

**65-23960**

ROBERT ANNO

3954 W QUAIL RIDGE DR

BOISE, ID 83703-3855

Point of Diversion SWSE S34 T10N R04E BOISE County Source PAYETTE RIVER Tributary PAYETTE RIVER

Point of Diversion SWSE S34 T10N R04E BOISE County Source GROUND WATER

Use: AESTHETIC 04/01 to 10/31 0.17 CFS

Use: DIVERSION TO STORAGE 04/01 to 10/31 0.17 CFS

Use: AESTHETIC STORAGE 04/01 to 10/31 2.4 AF

Total Diversion: 0.17 CFS, 2.4 AF

Date Filed: 07-15-2020

Place Of Use: AESTHETIC,AESTHETIC STORAGE,DIVERSION TO STORAGE

T10N R04E S34 SWSE

**65-23963**

TIMOTHY BENEDICT

PO BOX 416

GARDEN VALLEY, ID 83622-0416

Point of Diversion SWSW S33 T10N R04E BOISE County Source GROUND WATER

Use: DOMESTIC 01/01 to 12/31 0.04 CFS

Use: HEATING 01/01 to 12/31 0.04 CFS

Total Diversion: 0.04 CFS

Date Filed: 07-20-2020

Place Of Use: DOMESTIC,HEATING

T10N R04E S33 SWSW

Permits will be subject to all prior water rights. For additional information concerning the property location, contact the Western office at (208)334-2190; or for a full description of the right(s), please see <https://idwr.idaho.gov/apps/ExtSearch/WRAApplicationResults/>. Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of this application must be filed with the Director, Dept. of Water Resources, Western Region, 2735 W AIRPORT WAY, BOISE ID 83705-5082 together with a protest fee of \$25.00 for each application on or before 8/24/2020. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on 8/5/2020 and 8/12/2020



BRAD LITTLE

Governor

July 16, 2020

GARY SPACKMAN

Director

ROBERT ANNO  
3954 W QUAIL RIDGE DR  
BOISE ID 83703

**Re: Water Right Application 65-23906 – Additional Information Request**

Dear Applicant:

Thank you for re-submitting your application. The Idaho Department of Water Resources (Department) received your revised application on July 15, 2020. Your application is now considered complete by Department standards and therefore has been assigned the above-referenced number. A few further corrections/clarifications are needed from you before I can continue processing your application:

- *Section 4 – “Location of point(s) of diversion”*
  - You described your surface water point of diversion (POD) location correctly. However, since you are pulling water from two sources (the Middle Fork Payette river water AND a groundwater), you must describe both sources individually on the table under section 4.
    - Note: The legal description for your groundwater diversion will be the same as the legal description for the surface water diversion currently included on your application. The only difference will be under “source,” you will describe “groundwater”
  
- *Section 5 – “Water will be used for the following purposes”*
  - The amount for your “diversion to storage” usage should be described in cfs, not AF. (I apologize, I believe I told you to list this use as acre-feet during our last telephone call.)
  - Please change the “diversion storage rate” from an AF amount to a cfs amount
  
  - Please also include a “from-to” time range next to you diversion to storage as you did on the other two purposes. This will describe the yearly usage.
  
  - Upon further evaluation, I believe 1 cfs may be an excessive estimate for your purposes. The Department will likely not license you for a 1 cfs diversion rate.
    - Here are some numbers to consider...
      - 1 cfs = approx. 650,000 gallons each day or 60 AF each month.
      - 0.1 cfs = approx. 65,000 gallons each day or 6 AF each month
      - 0.01 cfs = approx. 6,500 gallons each day or 0.6 AF each month
    - With a pond capacity of 2.4 AF, you may want to consider applying for a smaller cfs.
  - If you decide to change your diversion rate from 1 cfs to a smaller number, you will be refunded for the difference (cfs usages of .2 or less are \$100.00).
  - If you decide to not change your cfs amount, the department will process your application for 1 cfs. Know this rate will likely be reduced upon licensing.

- *Section 8(d) – “Description of proposed uses – domestic”*
  - 8d should ONLY be filled in if you plan to use water within a household.
  - Since you only plan to use water for an aesthetic pond please remove the “1” under part 8d.
  
- *Section 9(b) – “POU table”*
  - Since you are not irrigating, please remove the “total number of acres to be irrigated” description.
  - Also remove the “X” under the NESE quarter-quarter as it does not describe your pond location.
  - Please also amend the 1/2 to 1/5 to accurately match the pond dimensions described in section 8(e).

With this letter, I enclosed your most recently submitted permit application with the discussed changes flagged. Complete these changes and deliver your amended application back to me in person or through mail at the address below.

Please do not hesitate to contact me at 208-334-2190 or [anna.kaiser@idwr.idaho.gov](mailto:anna.kaiser@idwr.idaho.gov) if you have any questions about this information, or if you would like to talk through any/all of the items in this letter.

Sincerely,



Anna Kaiser  
Water Resource Agent  
2735 W Airport Way  
Boise, ID 83705-5082  
(208)-334-2190  
[anna.kaiser@idwr.idaho.gov](mailto:anna.kaiser@idwr.idaho.gov)

Enclosure: Original Application



State of Idaho  
DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082  
Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: [www.idwr.idaho.gov](http://www.idwr.idaho.gov)

BRAD LITTLE  
Governor

GARY SPACKMAN  
Director

June 23, 2020

BOBERT ANNO  
3954 W QUAIL RIDGE DR  
BOISE, ID 83703

Re: Water Right Application Incomplete

COPY

Dear Applicant,

On June 1, 2020, the Idaho Department of Water Resources (Department) received your Application for Permit to divert water for an aesthetic pond. The Department cannot start processing your application until the following items are completed:

- 1) Section 4- "Location of point(s) of diversion"
  - With this letter, I included an aerial map of your proposed location with the Twn, Rge, Sec, and quarter-quarter.
  - Based on your application, it looks like you intend to divert water from two points- one groundwater point of diversion for your initial fill, and one stream point of diversion from the Middle Fork Payette River for your aesthetic flow-through. Please use the map to mark both approximate locations you intend to divert water.
  - After you mark your point(s) of diversion on the map, fill in the location for both points of diversion on the table under section 4 using the map as reference.
- 2) Section 5- "Water will be used for the following purposes"
  - The Department considers your proposed pond an "aesthetic storage" water usage. For your particular aesthetic storage usage, you must specify three purposes under section 5- "Diversion to Storage" for the initial fill rate, "Aesthetic" for the flow-through rate, and "Aesthetic Storage" for the total pond capacity. Please complete section 5 using the following suggestions:
    - *Diversion to Storage*: This is the amount of water needed to initially fill your pond. Add a "Diversion to Storage" purpose with an appropriate diversion rate estimate in cubic feet per second (cfs) for the initial amount of water you will use to fill your pond.
    - *Aesthetic*: This is the amount of flow-through water. Add an "Aesthetic" purpose with an appropriate diversion rate estimate in cfs for the amount of water that will flow through your pond.
    - *Aesthetic Storage*: This is the total pond capacity. Add an "Aesthetic Storage" purpose with an appropriate volume estimate in acre-feet (AF) for the amount of water your pond will hold. Based on your proposed pond dimensions and the pond location, the Department estimates you will need 2.4 AF of storage.
- 3) Section 6- "Total quantity to be appropriated..."
  - Please complete section 6 to reflect the total water usage amounts provided under section 5.

4) Section 9- "Description of place of use "

- Draw the outline of your pond on the enclosed map.
- Using your drawing as reference, fill out the table under section 9 of your application describing the location of your pond.

5) Section 14- "MAP OF PROPOSED PROJECT"

- Items (1) and (4) on this letter discuss how to complete an appropriate map to submit with your application.
- Please make sure your point(s) of diversion and place of use (pond outline) are drawn on the map provided and include this map with your re-submitted application.

6) FEE

- For your reference, I enclosed the Department's fee schedule for permit applications. Please submit a check addressed to IDWR with your re-submitted application.

With this letter, I included your original application for permit, along with the aerial map and application for permit fee schedule as described above. Please make the necessary changes and re-submit your completed application with the appropriate fee by mail or in person to the address listed below. If you have any questions please do not hesitate to call me at (208)-334-2190 or email me at [anna.kaiser@idwr.idaho.gov](mailto:anna.kaiser@idwr.idaho.gov).

You may seek additional time to provide the information by making a written request to interrupt processing for up to six months. The application will be returned without a timely written reply within the next thirty (30) days.

Sincerely,



Anna Kaiser  
Water Resource Agent  
Idaho Dept. of Water Resources | Western Regional Office  
2735 W Airport Way, Boise ID 83705  
[anna.kaiser@idwr.idaho.gov](mailto:anna.kaiser@idwr.idaho.gov) | (208).334.2190

Enclosures:   Original application for permit  
                  Aerial map  
                  Application fee schedule

## Seepage Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total annual seepage losses from a pond.

FILE NUMBER	NA
REVIEWER	Anna Kaiser
DATE	6/19/2020

User Input
Calculated value
Formula Explanations

### INPUTS

Pond Surface Area (AC.)	0.2	AC.
-------------------------	-----	-----

Pond Surface Area (SQ. FT.)	8712	SQ. FT.
-----------------------------	------	---------

I used the following method to obtain my Soil Classification information:	PondSoils Layer in GIS	
My Soil Classification is	CL	
Suggested Seepage Rate (FT./DAY)	0.0030	FT./DAY

Formula: (Surface Area X Seepage Rate) X 7.48 = Gallons Per Day Loss
--

Convert to GPD	195	GPD
----------------	-----	-----

Total Seepage Loss (AFA)	0.2	AFA
--------------------------	-----	-----

Though sand and gravel seepage rates may actually be higher, the maximum allowable rate is 0.2 ft/day, pursuant to Administrative Memo "Seepage Loss Standards for Ponds and Reservoirs."

Suggested Seepage Rates for Different Soil Types:
<b>GW, GP, GM, GC, SW, SP and SM</b> (silty sand, sand silt mixtures and gravel mixtures) = <b>0.2 ft per day</b>
<b>OL and ML</b> (inorganic silts - very fine sands, silty, or clayey fine sands) = <b>0.02 ft per day</b>
<b>SC</b> (clayey sands, sand clay mixtures) = <b>0.007 ft per day</b>
<b>CL</b> (Low to medium plasticity clays) = <b>0.003 ft per day</b>
<b>MH, OH, PT and CH</b> (high plasticity clays) = <b>0.0003 ft per day</b>
<b>LINED PONDS</b> (liners can be chemical, fabric, or bentonite) = <b>0 ft per day</b>
<b>Ponds Intercepting Groundwater</b> (excavated ponds filled by ground water) = <b>0 ft per day</b>

**PLEASE NOTE:** The initial basis for the Suggested Seepage Rates in the table above is found on Page 16 of Seepage from Fish Ponds, Bulletin 599, August 1989 Alabama Agricultural Experiment Station, Auburn University, Auburn University Alabama. If you don't know the soil type, please refer to the map provided at the NRCS Web Soil Survey (Tab #1), an ArcMap Soil Classification Map (Tab #1.1), or published NRCS Soil Survey (Tab #1.2). Use "0" if the pond fill relies on the water table.

## Evaporation Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the annual evaporation losses from a pond.

FILE NUMBER	NA
REVIEWER	Anna Kaiser
DATE	6/19/2020

User Input
Calculated value
Formula Explanations

The acronyms used on the Kimberly Research Center website are defined below:
P = Precipitation
ET= Evapotranspiration
P <sub>d</sub> = Precipitation deficit
P <sub>d</sub> =ET-P

**USING THIS SPREADSHEET**

Use the link below to access the Kimberly Research Center website. This website provides the Precipitation Deficit for a station most representative of the pond under examination. The Precipitation Deficit is the total amount of free water surface evaporation minus the precipitation for a given area, which gives the total amount of evaporative losses incurred by the pond. There are several weather sites that are used throughout the state. IDWR staff can find the nearest site using Arc Map. The shape file containing the sites can be found at X:/Spatial/Climate/ETIdahostations.shp.

**Instructions:**

1. Use the link below to navigate to ET Idaho 2012.
2. Select the station which is most representative to your pond location.
3. Click Submit Query.
4. Under "Land Covers with Evapotranspiration Estimates," select "Open Water - Shallow Systems (ponds, streams)" or "Open Water - small stock ponds" depending on the pond size.
5. Click the link to "Precipitation Deficit."
6. Reference and copy (ctrl + C) the first subheading "Mean" values.
7. Click the "Paste Values from ET Idaho" button. The table will automatically enter a zero (0) for any negative precipitation deficit values.

Found at: <http://data.kimberly.uidaho.edu/ETIdaho/>

### Precipitation Deficit

Station: Boise WSFO Airport (NWS -- USC00101022)

Month	mm/day <sup>1</sup>	Days per month	mm/Month
Jan	0.40	31	12.40
Feb	0.96	28	26.88
March	1.97	31	61.07
April	3.07	30	92.10
May	3.89	31	120.59
June	4.63	30	138.90
July	4.88	31	151.28
August	4.12	31	127.72
September	3.11	30	93.30
October	2.08	31	64.48
November	0.85	30	25.50
December	0.40	31	12.40

**PLEASE NOTE:** The seasonal average for precipitation deficit should not be used for calculations because precipitation often exceeds evaporation during wetter months of the year. If the pond is kept full, excess precipitation during wetter months does not serve to refill the pond during drier months.

For example, see Sandpoint KSPT (NWS -- 108137), the annual precipitation deficit is -106 mm. However, April through September have positive precipitation deficit values. To properly estimate the annual volume of water necessary to refill a pond due to evaporation losses, the table will automatically enter a zero (0) for each month that the precipitation value is reported as a negative value.

As described above, precipitation offsets evaporation in winter months, so the net effect is that wintertime precipitation deficit is usually zero.

Total mm/year = **926.62**

$$\left( \frac{926.62}{304.8} \right) \times 0.20 = 0.6 \text{ AFA}$$

## Total Storage Calculations

FILE NUMBER	NA
REVIEWER	Anna Kaiser
DATE	6/19/2020

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	0.2	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	8	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.
Pond Capacity (AF)	1.6	Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above. <b>Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.</b>
Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	0	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). <b>Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.</b>
Estimated Seepage Loss (AF)	0.2	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	0.6	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	2.4	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.

<b>Flow Rate into Pond (CFS)</b>	<b>0.50</b>	The "Flow Rate into Pond" depicts the actual flow, either measured or estimated, into the pond. For offstream facilities, this will be equivalent to "diversion to storage" rate.
<b>Highest Daily Evaporation Rate From Evaporation Tab. (mm/Day)</b>	<b>4.88</b>	This number is carried over from the "Evaporation Loss" sheet. It is the highest recorded number in the "Precipitation Deficit Table".
<b>Required Daily Maintenance Volume (AF/Day)</b>	<b>0.00</b>	"Required Daily Maintenance Volume" is the maximum volume of water needed on any given day during the year to maintain pond volume. It is calculated by adding the highest daily evaporation loss to the average daily seepage loss in acre feet. The average daily seepage loss is calculated by dividing the "Estimated Seepage Loss" by 365 days. This is acceptable, since the seepage rate shouldn't vary throughout the season unless the pond completely freezes over during the winter months. The highest daily evaporation loss is calculated by dividing the Highest Daily Evaporation Rate by the 304.8 conversion factor and multiplying this number by the pond surface area to attain a combined daily acre feet requirement.
<b>Minimum Maintenance Flow (CFS)</b>	<b>0.00</b>	The "Minimum Maintenance Flow" is the minimum amount of flow required to maintain the level of the pond. This number is determined by dividing the "Maximum Required Daily Maintenance Volume" by 1.9835. This flow can be used to determine if the flow rate into the pond is adequate to maintain the pond level.
<b>Days Required to Fill the Pond</b>	<b>2</b>	The "Days Required to Fill the Pond" is calculated by dividing the "Pond Capacity" by the "Flow Rate" minus "Minimum Maintenance Flow" multiplied by 1.9835. This section will assist you in determining if the flow rate being diverted to the pond is adequate to fill the pond while maintaining the pond level. The length of time to fill the pond will help determine if the flow rate is adequate for the size of pond being proposed. <i>If this number is approximately 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond.</i>
<b>Days Required to Fill the Pond at 13,000 Gallons per Day</b>	<b>44</b>	Some water users may want to fill a pond under the 13,000 gallons per day domestic exemption. The "Days Required to Fill the Pond at 13,000 Gallons per Day" is calculated by converting the "Pond Capacity" and the "Required Daily Maintenance Volume" to gallons. The "Pond Capacity" is then divided by 13,000 gallons minus the "Required Daily Maintenance Volume" in gallons to determine the number of days to fill pond. <i>If this number is approximately 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond.</i> Negative values indicate that the supply of 13,000 gallons per day is not enough volume to overcome the required daily maintenance volume; the pond will never fill.