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FORM 202 Rev. 09/16

JUL 24 2017

IDWR/NORTHERN

81824

STATE OF IDAHO

DEPARTMENT OF WATER RESOURCES

APPLICATION FOR PERMIT

To appropriate the public waters of the State of Idaho

Ident. No. 83-11987

1. Name of applicant(s) STATE OF IDAHO DEPT OF FISH & GAME Phone 208-334-3700
 Name connector (check one): ☐ and ☐ or ☐ and/or
 Mailing address PO BOX 25 City BOISE
 State ID ZIP 83707 Email _____
2. Name of representative, if any _____ 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 DEER CREEK which is a tributary of REEDS CREEK

4. Location of point(s) of diversion:

TwP	Rge	Sec	Govt Lot	1/4	1/4	1/4	County	Source	Local name or tag #
38N	05E	24			NW	NW	CLEARWATER	DEER CREEK	

5. Water will be used for the following purposes:

Amount 162.8 AF for RECREATION STORAGE purposes from 1/1 to 12/31 (both dates inclusive)
 (cfs or acre-feet per year)

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

Amount _____ for _____ purposes from _____ to _____ (both dates inclusive)
 (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) _____ cubic feet per second (cfs) and/or (b) 162.8 acre-feet per year (af).

7. Proposed diverting works:

- a. Describe type and size of devices used to divert water from the source. DEER CREEK RESERVOIR.
REGULATED BY IDWR DAM SAFTEY.
- b. Height of storage dam 47.8 feet; active reservoir capacity 975 acre-feet; total reservoir capacity 975 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. _____

For Department Use

Received by AF Date 8-23-17 Time _____ Preliminary check by _____
 Fee \$ 290.00 Receipted by S.ocha Receipt No. BLL0152 Date _____

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. RECREATION STORAGE FOR FISHING AND BOATING

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	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
38N	05E	13			R					R	R		R	R		R			
38N	05E	24					R	R	R										

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? 83-11930

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. APPLICANT IS FILING FOR ADDITIONAL STORAGE TO COVER THE REMAINING STORAGE CAPACITY OF RESERVOIR AND TO COVER EVAPORATION AND SEEPAGE.

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 8½" 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

Brett Bowser, Fishery Staff Biologist
Print Name (and title, if applicable)

Signature of Applicant

Print Name (and title, if applicable)

Total Storage Calculations

FILE NUMBER	Deer Creek
REVIEWER	Adam Frederick
DATE	7/17/2017

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.)	62	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	15.8	"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)	979.6	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. 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.
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). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	67.9	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	15.3	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	1062.8	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.

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Flow Rate into Pond (CFS)	1.00	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.
Highest Daily Evaporation Rate From Evaporation Tab. (mm/Day)	1.24	This number is carried over from the "Evaporation Loss" sheet. It is the highest recorded number in the "Precipitation Deficit Table".
Required Daily Maintenance Volume (AF/Day)	0.44	"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.
Minimum Maintenance Flow (CFS)	0.22	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.
Days Required to Fill the Pond	634	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. If this number is <i>approximately</i> 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.
Days Required to Fill the Pond at 13,000 Gallons per Day	-2459	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. If this number is <i>approximately</i> 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. 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.

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	Deer Creek
REVIEWER	Adam Frederick
DATE	7/17/2017

User Input
Calculated value
Formula Explanations

The acronyms used on the Kimberly Research Center website are defined below:
P = Precipitation
ET= Evapotranspiration
P _d = Precipitation deficit
P _d =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: Elk River 1 S (NWS -- 102892)

Month	mm/day ¹	Days per month	mm/Month
Jan	-4.28	31	0.00
Feb	-3.16	28	0.00
March	-2.29	31	0.00
April	-1.49	30	0.00
May	-1.06	31	0.00
June	-0.53	30	0.00
July	1.19	31	36.89
August	1.24	31	38.44
September	-0.26	30	0.00
October	-1.02	31	0.00
November	-3.41	30	0.00
December	-3.80	31	0.00

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.

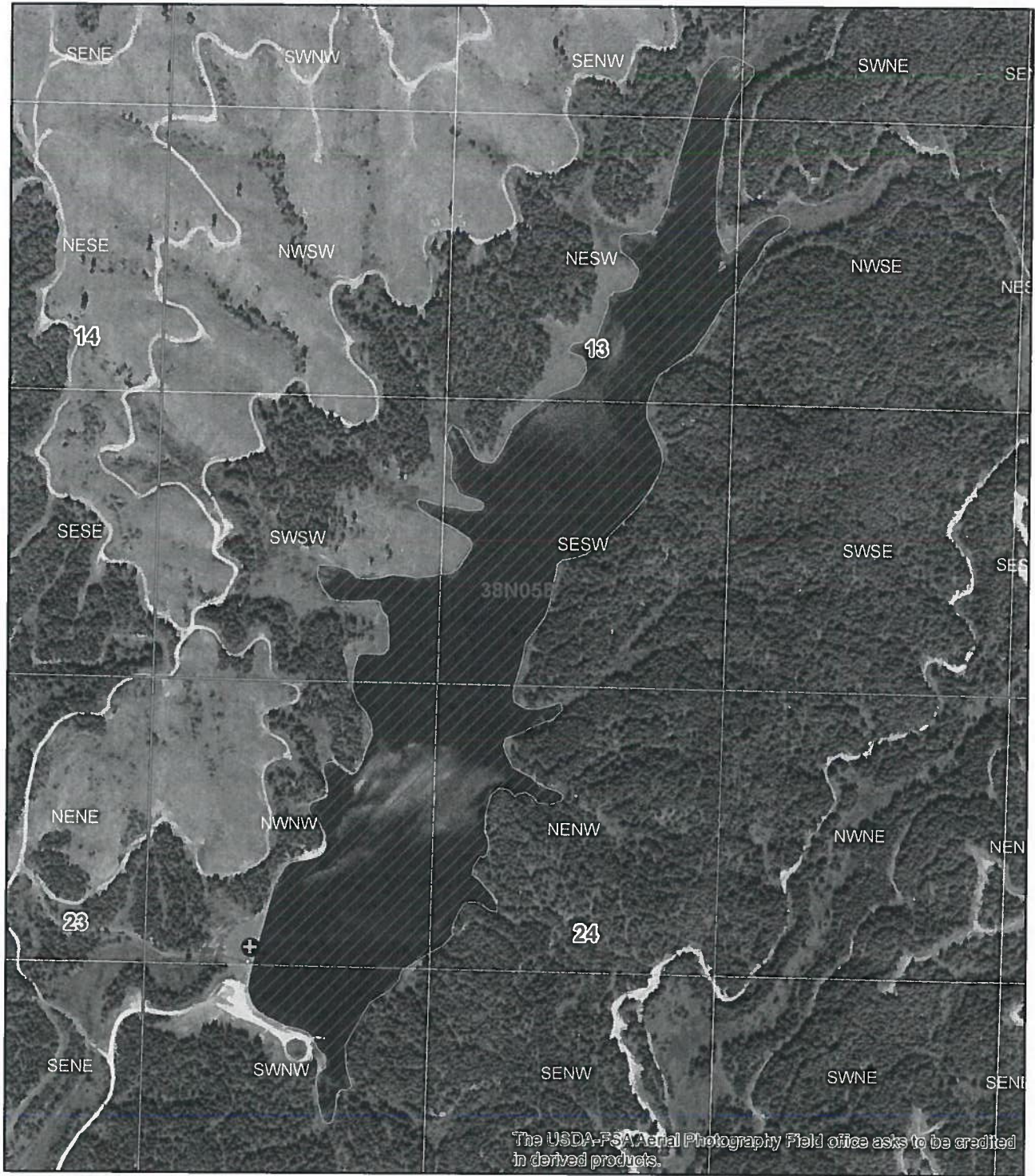
As described above, precipitation offsets evaporation in winter months, so the net effect is that wintertime precipitation deficit is usually zero.

Total mm/year = 75.33

$$[(75.33 \text{ mm/yr}) \div (\text{convert to feet})] \times (\text{Surface area of pond, in acres}) = \text{Evaporation Loss in Acre Feet}$$

(75.33 ÷ 304.8) X 62.00 = 15.3 AFA

APPLICATION MAP ATTACHMENT



Legend

-  Taxlots
-  Township/Range
-  Sections
-  QQ
-  POD
-  POU

0 0.075 0.15 0.3 Miles





IDAHO DEPARTMENT OF FISH AND GAME
CLEARWATER REGION
3316 16th Street
Lewiston, Idaho 83501

C.L. "Butch" Otter / Governor
Virgil Moore / Director

July 18th, 2017

Mr. Adam Frederick
Senior Water Resource Agent
Idaho Department of Water Resources
Northern Regional Office
7600 N Mineral Dr. #100
Coeur d'Alene, ID 83815

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Adam:

I have included the adjusted place of use Application for Amendment for Deyo Reservoir and the additional storage Application for Permit for Deer Creek Reservoir. Processing these permits should complete the permitting requirements for both reservoirs. I request the fees associated with the Application for Amendment and Application Permit be charged through the interagency billing process to PCA 31220, Activity F2, Species NX.

Thank you for your assistance, please let me know if you have any questions.

Brett Bowersox
Fishery Staff Biologist
IDFG – Clearwater Region



State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region • 7600 N. Mineral Drive, Suite 100 • Coeur d'Alene, Idaho 83815-7763
Phone: (208) 762-2800 • Fax: (208) 762-2819 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

September 12, 2017

STATE OF IDAHO
DEPT OF FISH & GAME
PO BOX 25
BOISE, ID 83707

Application For Permit No. 83-11987

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 CLEARWATER TRIBUNE on 9/21/2017 and 9/28/2017. 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 the Northern Regional Office at (208) 762-2800 if you have any questions regarding the application.

Sincerely,

Tammy Alleman
Administrative Assistant

Alleman, Tammy

From: Alleman, Tammy
Sent: Tuesday, September 12, 2017 4:53 PM
To: 'CLEARTRIB@CEBRIDGE.NET'
Subject: Application for Permit No. 83-11987
Attachments: 092117 & 092817.doc

Please publish the enclosed legal notice on the dates indicated (once a week for two consecutive weekly issues) on September 21st and September 28th, 2017. If you cannot publish the notice on the proposed dates, please contact us immediately. Please send a proof once you have the article ready for print for our review.

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 10/10/2017. Your cooperation is appreciated.

Thank you

Tammy Alleman

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

83-11987

STATE OF IDAHO
DEPT OF FISH & GAME
PO BOX 25
BOISE, ID 83707

Point of Diversion NWNW
S24 T38N R05E

CLEARWATER County

Source DEER CREEK

Use: RECREATION STORAGE

01/01 to 12/31 162.8 AF

Total Diversion: 162.8 AF

Date Filed: 7/24/2017

Place Of Use: RECREATION STORAGE

T38N R05E S13

SWNE SENW NESW SWSW SESW NWSE

T38N R05E S24 NENW NWNW SWNW

Permits will be subject to all prior water rights. For additional information concerning the property location, contact Northern Region office at (208) 762-2800. 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, Northern Region, 7600 Mineral Drive, Suite 100, Coeur D' Alene ID 83815 together with a protest fee of \$25.00 for each application on or before 10/10/2017. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on 9/21/2017 and 9/28/2017

Alleman, Tammy

From: Alleman, Tammy
Sent: Monday, September 18, 2017 3:41 PM
To: Clark, Cynthia Bridge
Subject: Comments Requested on Application for Permit
Attachments: 83-11987.pdf

Dear Cynthia:

The Department of Water Resources is seeking written comment and/or recommendations from your agency regarding the above referenced water right application(s). You can find a copy of the applications attached to the email and also at: <http://www.idwr.idaho.gov/apps/ExtSearch/WRAJSearch/WRADJSearch.aspx>.

This office can publish notice of the application(s) as soon as the initial review is completed; therefore, your prompt response to this request is appreciated. If your agency desires to formally protest the approval of this application, you may do so after the notice is published by filing a written protest along with a \$25.00 filing fee within 10 days after final publication. **The deadline for comments on this application is October 10th, 2017.**

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

Thank you,

Tammy

*Tammy Alleman
Administrative Assistant
Idaho Department of Water Resources
7600 North Mineral Drive, Suite 100
Coeur d'Alene, ID 83815
Tammy.Alleman@idwr.idaho.gov
208-762-2800 Phone
208-762-2819 Fax*

Alleman, Tammy

From: Alleman, Tammy
Sent: Monday, September 18, 2017 3:38 PM
To: 'Sujata.Connell@deq.idaho.gov'
Subject: RE: Comment Request for Applications for Permit 83-11987 & 87-10089

Dear Sujata,

I forgot to mention the Deadline for Comments on these applications is October 10th, 2017.

Thankyou,

Tammy

*Tammy Alleman
Administrative Assistant
Idaho Department of Water Resources
7600 North Mineral Drive, Suite 100
Coeur d'Alene, ID 83815
Tammy.Alleman@idwr.idaho.gov
208-762-2800 Phone
208-762-2819 Fax*

From: Alleman, Tammy
Sent: Monday, September 18, 2017 3:31 PM
To: 'Sujata.Connell@deq.idaho.gov' <Sujata.Connell@deq.idaho.gov>
Subject: Comment Request for Applications for Permit 83-11987 & 87-10089

Dear Interested Party:

The Department of Water Resources is seeking written comment and/or recommendations from your agency regarding the above referenced water right application(s). You can find a copy of the applications attached to the email and also at: <http://www.idwr.idaho.gov/apps/ExtSearch/WRAJSearch/WRADJSearch.aspx>.

This office can publish notice of the application(s) as soon as the initial review is completed; therefore, your prompt response to this request is appreciated. If your agency desires to formally protest the approval of this application, you may do so after the notice is published by filing a written protest along with a \$25.00 filing fee within 10 days after final publication.

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

Thank you,

Tammy

*Tammy Alleman
Administrative Assistant
Idaho Department of Water Resources
7600 North Mineral Drive, Suite 100*