

RECEIVED

AUG 19 2016

WATER RESOURCES  
WESTERN REGIONSTATE OF IDAHO  
DEPARTMENT OF WATER RESOURCES  
**APPLICATION FOR PERMIT**  
To appropriate the public waters of the State of IdahoIdent. No. 65-23666

1. Name of applicant(s) Carolyn Them Parker Phone 541-403-0440  
 Name connector (check one): ☐ and ☐ or ☐ and/or  
 Mailing address 1000 Storey Ln, Baker City, OR 97814 Email cthemhorses@gmail.com
2. Name of representative, if any SPF Water Engineering LLC Phone 208-383-4140  
 Mailing address 300 E Mallard Dr, Ste 350, Boise, ID 83706 Email lgraves@spfwater.com
- 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 providing authority to sign for the applicant.
3. Source of water supply Unnamed Stream which is a tributary of North Fork Payette River
4. Location of point(s) of diversion:

| TwP | Rge | Sec | Govt Lot | ¼  | ¼  | ¼  | County | Source         | Local name or tag # |
|-----|-----|-----|----------|----|----|----|--------|----------------|---------------------|
| 18N | 03E | 22  |          | NW | SW | NW | Valley | Unnamed Stream |                     |
|     |     |     |          |    |    |    |        |                |                     |
|     |     |     |          |    |    |    |        |                |                     |
|     |     |     |          |    |    |    |        |                |                     |

5. Water will be used for the following purposes:
- Amount 1.4 acre-feet for Aesthetic Storage purposes from 1/1 to 12/31 (both dates inclusive)  
 (cfs or acre-feet per year)
- Amount 1.4 acre-feet for Recreation Storage purposes from 1/1 to 12/31 (both dates inclusive)  
 (cfs or acre-feet per year)
- Amount 1.4 acre-feet for Stockwater Storage purposes from 1/1 to 12/31 (both dates inclusive)  
 (cfs or acre-feet per year)
- Amount 1.4 acre-feet for Wildlife Storage purposes from 1/1 to 12/31 (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) 1.4 acre-feet per year (af).
7. Proposed diverting works:
- a. Describe type and size of devices used to divert water from the source. Existing pond with a 0.1-acre surface area, average 10 feet deep.
- b. Height of storage dam \_\_\_\_\_ feet; active reservoir capacity 1.0 acre-feet; total reservoir capacity 1.0 acre-feet. If the reservoir will be filled more than once each year, describe the refill plan in item 11. 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 ad Date 8/19/16 Time 9:45 Preliminary check by SB  
 Fee \$ 100.00 Received by ad Receipt No. WD44529 Date 8/19/16

For Department Use

8. Description of proposed uses (if irrigation only, go to item 9):
- Hydropower; show total feet of head and proposed capacity in kW. \_\_\_\_\_
  - Stockwatering; list number and kind of livestock. up to 10 range cattle and horses \_\_\_\_\_
  - Municipal; must complete and attach the [Municipal Water Right Application Checklist](#).
  - Domestic; show number of households \_\_\_\_\_
  - Other; describe fully. up to 25 head miscellaneous wild game animals, aesthetic and recreation uses for pond \_\_\_\_\_
9. Description of place of use:
- If water is for irrigation, indicate acreage in each subdivision in the tabulation below.
  - 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 |        |
| 18N | 03E | 22  |    |    |    |    |    |    | X  |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |
|     |     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |        |

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? License 65-12902 for same pond authorizing irrigation storage and from storage. \_\_\_\_\_
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. The proposed storage volume reflects the attached seepage and evaporative loss calculations used by IDWR in licensing water right 65-12902 for the same pond. Depth and/or surface area changes to the pond are not proposed, only additional uses. \_\_\_\_\_
13. Time required for completion of works and application of water to proposed beneficial use is 5 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.

Carolyn Them Parker  
Signature of Applicant

Carolyn Them Parker  
Print Name (and title, if applicable)

\_\_\_\_\_  
Signature of Applicant

\_\_\_\_\_  
Print Name (and title, if applicable)

### Total Storage Calculations

|             |            |
|-------------|------------|
| FILE NUMBER | PS-12902   |
| REVIEWER    | Dan Nelson |
| DATE        | 12/28/2015 |

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.)                                                                           | 0.1 | "Surface Area" is automatically carried over from the "Seepage Loss" sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Average Pond Depth (FT.)                                                                     | 10  | "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   | 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.<br>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 from storage component if the from storage 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).<br>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)                                                                  | 0.3 | The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Estimated Evaporation Loss (AF)                                                              | 0.1 | The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Total Volume Required (AF)                                                                   | 1.4 | 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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 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 | 65-12902   |
| REVIEWER    | Dan Nelson |
| DATE        | 12/28/2015 |

|                      |
|----------------------|
| 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: Twin Falls 2 NNE (NWS -- 109294)

| Month     | mm/day <sup>1</sup> | Days per month | mm/Month |
|-----------|---------------------|----------------|----------|
| Jan       | -1.93               | 31             | 0.00     |
| Feb       | -1.46               | 28             | 0.00     |
| March     | -0.70               | 31             | 0.00     |
| April     | 0.73                | 30             | 21.90    |
| May       | 1.38                | 31             | 42.78    |
| June      | 2.42                | 30             | 72.60    |
| July      | 4.12                | 31             | 127.72   |
| August    | 3.49                | 31             | 108.19   |
| September | 1.93                | 30             | 57.90    |
| October   | 0.46                | 31             | 14.26    |
| November  | -1.99               | 30             | 0.00     |
| December  | -2.50               | 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 = 445.35

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

$$(445.35 \div 304.8) \times 0.10 = 0.1 \text{ AFA}$$

## 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 | 65-12902   |
| REVIEWER    | Dan Nelson |
| DATE        | 12/28/2015 |

|                      |
|----------------------|
| User Input           |
| Calculated value     |
| Formula Explanations |

### INPUTS

|                        |     |    |
|------------------------|-----|----|
| Pond Surface Area (AC) | 0.1 | AC |
|------------------------|-----|----|

|                             |      |         |
|-----------------------------|------|---------|
| Pond Surface Area (SQ. FT.) | 4356 | SQ. FT. |
|-----------------------------|------|---------|

|                                                                           |                      |         |
|---------------------------------------------------------------------------|----------------------|---------|
| I used the following method to obtain my Soil Classification information: | NRCS Web Soil Survey |         |
| My Soil Classification is                                                 | SC                   |         |
| Suggested Seepage Rate (FT./DAY)                                          | 0.0070               | FT./DAY |

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

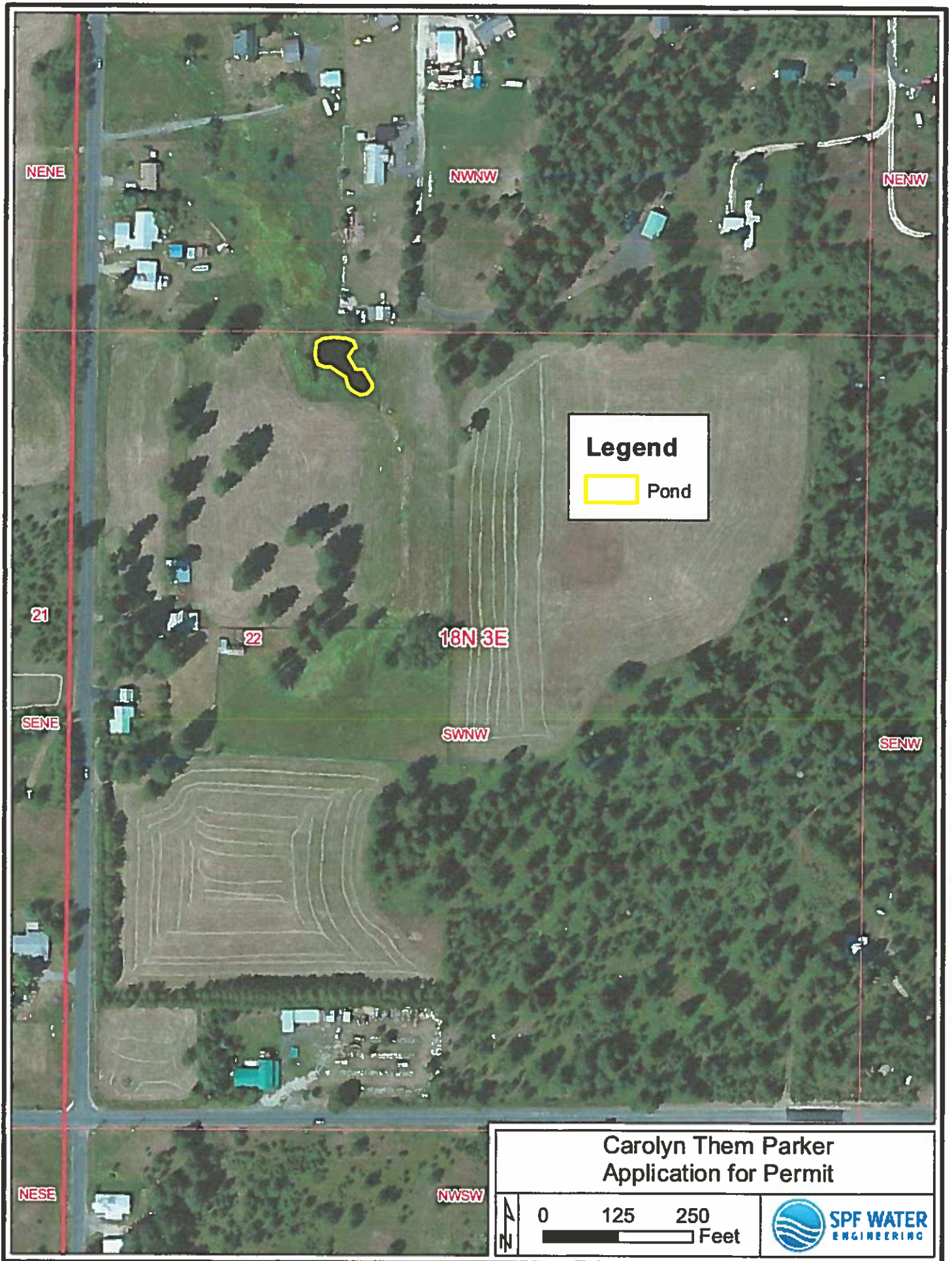
|                |     |     |
|----------------|-----|-----|
| Convert to GPD | 228 | GPD |
|----------------|-----|-----|

|                          |     |     |
|--------------------------|-----|-----|
| Total Seepage Loss (AFA) | 0.3 | 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:                                                   |
|-----------------------------------------------------------------------------------------------------|
| GW, GP, GM, GC, SW, SP and SM (silty sand, sand silt mixtures and gravel mixtures) = 0.2 ft per day |
| OL and ML (inorganic silts - very fine sands, silty, or clayey fine sands) = 0.02 ft per day        |
| SC (clayey sands, sand clay mixtures) = 0.007 ft per day                                            |
| CL (Low to medium plasticity clays) = 0.003 ft per day                                              |
| MH, OH, PT and CH (high plasticity clays) = 0.0003 ft per day                                       |
| LINED PONDS (liners can be chemical, fabric, or bentonite) = 0 ft per day                           |
| Ponds Intercepting Groundwater (excavated ponds filled by ground water) = 0 ft per day              |

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.



65-23666



**State of Idaho**

**DEPARTMENT OF WATER RESOURCES**

Western Region, 2735 Airport Way • Boise, Idaho 83705-5082

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

**C. L. "BUTCH" OTTER**  
Governor

**GARY SPACKMAN**  
Director

December 8, 2016

CAROLYN THEM PARKER  
1000 STOREY LN  
BAKER CITY, OR 97814

Application for Permit No. 65-23666

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 STAR NEWS on 12/15/2016 and 12/22/2016. 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,

Rachel Neely  
Administrative Assistant

CC:  
SPF WATER ENGINEERING LLC  
C/O LORI GRAVES  
300 E MALLARD DR STE 350  
BOISE, ID 83706

**Neely, Rachel**

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**From:** Neely, Rachel  
**Sent:** Thursday, December 08, 2016 2:00 PM  
**To:** 'The Star-News'  
**Subject:** Valley Legal Ad  
**Attachments:** Valley Cover Letter.docx; Valley Legal Ad.docx

Good Afternoon Legal Clerk,

Please see the attached ad for publication on 12/15/2016 & 12/22/2016.

Please confirm these are okay to publish as shown.

Thank you,

---

*Rachel Neely*

Administrative Assistant I  
IDWR-Western Region  
2735 Airport Way Boise, ID 83705  
[Rachel.Neely@idwr.idaho.gov](mailto:Rachel.Neely@idwr.idaho.gov)

December 8, 2016

LEGAL NOTICE DEPARTMENT  
STAR NEWS  
1000 1ST ST  
MC CALL, ID 83638

RE: Application for Permit No. 65-23666

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 1/2/2017. Your cooperation is appreciated.

Sincerely,

Rachel Neely  
Administrative Assistant

Enclosure(s)

The following application has been filed to appropriate the public waters of the State of Idaho:

65-23666

CAROLYN THEM PARKER

1000 STOREY LN

BAKER CITY, OR 97814

Point of Diversion NWSWNW S22 T18N R03E VALLEY County Source UNNAMED STREAM Tributary NORTH FORK PAYETTE RIVER

Use: AESTHETIC STORAGE 01/01 to 12/31 1.4 AF

Use: RECREATION STORAGE 01/01 to 12/31 1.4 AF

Use: STOCKWATER STORAGE 01/01 to 12/31 1.4 AF

Use: WILDLIFE STORAGE 01/01 to 12/31 1.4 AF

Total Diversion: 1.4 AF

Date Filed: 8/19/2016

Places of Use: AESTHETIC STORAGE, RECREATION STORAGE, STOCKWATER STORAGE, WILDLIFE STORAGE

T18N R03E S22 SWNW

Permits will be subject to all prior water rights. For additional information concerning the property location, contact Western Region office at (208) 334-2190; or for a full description of the right(s), please see [www.idwr.idaho.gov/WaterManagement/WaterRights](http://www.idwr.idaho.gov/WaterManagement/WaterRights). Protests may be submitted based on the criteria of Idaho Code § 42-203A. Any protest against the approval of the application(s) must be filed with the Director, Dept. of Water Resources, Western Region, 2735 Airport Way, Boise ID 83705 together with a protest fee of \$25.00 for each application on or before 1/2/2017. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on 12/15/2016 and 12/22/2016

**Neely, Rachel**

---

**From:** Neely, Rachel  
**Sent:** Thursday, December 08, 2016 11:39 AM  
**To:** 'Ron Shurtleff'  
**Subject:** Application for Permit No. 65-23666  
**Attachments:** Watermaster Recommendation For1.docx; Application for Permit 65-23666.pdf

December 8, 2016

RON SHURTLEFF  
WATER DISTRICT #65  
102 N MAIN  
PAYETTE, ID 83661

**RE: Application for Permit No. 65-23666**

Dear Watermaster:

The Idaho Department of Water Resources (IDWR) is seeking written comment and/or recommendations from you regarding the above referenced water right application. A copy of the application is enclosed with this email for your reference. Please review the application, complete a recommendation form, and submit your reply, if any, to this office by January 2, 2017.

IDWR will assume you do not object to this application if a timely response is not received. Please contact me if you have any questions in this matter. Thank you for your help.

Sincerely,

---

*Rachel Neely*

Administrative Assistant I  
IDWR-Western Region  
2735 Airport Way Boise, ID 83705  
[Rachel.Neely@idwr.idaho.gov](mailto:Rachel.Neely@idwr.idaho.gov)



August 17, 2016

RECEIVED

AUG 19 2016

WATER RESOURCES  
WESTERN REGION

Angie Grimm  
IDWR Western Region Office  
2735 Airport Way  
Boise, ID 83705

***Subject: Application for Permit***

Dear Angie,

Enclosed on behalf of Carolyn Them Parker, is an *Application for Permit* seeking additional storage uses from an existing pond.

Check No. 7795 for \$100 is enclosed for the filing fee. Thank you very much for your consideration and assistance in this matter. Please call me if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Lori Graves", is written over a horizontal line.

Lori Graves  
Water Rights Specialist

Cc: Carolyn Them Parker

Enclosures

SPF file number: 1262.0010