

RECEIVED

APR 25 2019

DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT
To appropriate the public waters of the State of Idaho

IDWR / NORTH

1. Name of applicant(s) AAK LLC Phone 208-661-5559
Name connector (check one): and or and/or

Mailing address 6960 N 4th Street City Dalton Gardens

State Idaho ZIP 83813 Email Bill.Krick@northwestgrading.com

2. Name of representative, if any Northwest Groundwater Consultants, LLC Phone 208-755-1094

Mailing address 2660 E Thomas Hill Drive City Coeur d'Alene

State Idaho ZIP 83815 Email tfmullen@northwestgroundwater.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.

3. Source of water supply Groundwater which is a tributary of _____

4. Location of point(s) of diversion:

Twp	Rge	Sec	Govt Lot	¼	¼	¼	County	Source	Local name or tag #
51N	5W	30	2		SW	NW	Kootenai	Groundwater	New well

5. Water will be used for the following purposes:

Amount 0.04 cfs for Domestic purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)

Amount 0.14 cfs for Irrigation purposes from 3/15 to 11/15 (both dates inclusive)
(cfs or acre-feet per year)

Amount 0.28 cfs for Commercial purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)

Amount 0.69 cfs for Fire Protection purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)

6. Total quantity to be appropriated is (a) 0.69 cubic feet per second (cfs) and/or (b) 105.8 acre-feet per year (af).

7. Proposed diverting works:

a. Describe type and size of devices used to divert water from the source. New 10-inch well and storage pond; Pond to provide storage for fire protection, industrial (construction projects), commercial and irrigation for business park.

b. Height of storage dam _____ 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 10 inches; proposed depth of well is 200 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 _____ Date _____ Time _____ Preliminary check by _____
Fee \$ 290⁰⁰ Received by JA Receipt No. N034226 Date 4-25-19

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 One commercial lot with up to 20 employees
 - e. Other; describe fully. Industrial (construction water projects); fire protection; irrigation of 7 acres; and commercial for 7 commercial lots.


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		
51N	5W	30						GL1	GL2											
								3	4											7
									D											
									IRS											
									IS											

Total number of acres to be irrigated: 7

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? Water Right No. 95-16533 provides for irrigation of the Parcel Nos. 51N05W-30-2520 and 51N05W-30-3600 (35) acres at 0.69 cfs and 105 AF.
11. a. Who owns the property at the point of diversion? AAK LLC
 b. Who owns the land to be irrigated or place of use? AAK LLC
 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. Project includes seven 5-acre commercial lots. A 10-inch well will be drilled; Pond will provide storage for fire protection, industrial (construction water projects), commercial, and irrigation (7 acres landscaping). Double check valve will be installed at discharge to pond to provide domestic water for one lot (up to 20 employees). Site will be fenced; flow meter to be installed at POD.
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.


 Signature of Applicant
William Kriehl Member
 Print Name (and title, if applicable)

 Signature of Applicant

 Print Name (and title, if applicable)

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Ident. No. _____

Season of Use/Purpose of Use Supplement

Attachment to: Application for Permit to Appropriate Water Adjudication Claim Beneficial Use Field Report
 Application for Amendment of Permit Statutory Claim

Water will be used for the following purposes:

- Amount 21 AF for Irrigation Storage purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
- Amount 21 AF for Irrigation from Storage purposes from 3/15 to 11/15 (both dates inclusive)
(cfs or acre-feet per year)
- Amount 19.6 AF for Commercial storage purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
- Amount 19.6 AF for Commerical from storage purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
- Amount 3.2 AF for Fire Storage purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
- Amount 3.2 AF for Fire from Storage purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
- Amount 61.4 for Industrial Storage purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
- Amount 61.4 for Industrial from Storage purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)
- Amount 0.69 cfs for Diversion to 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)
- 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)
- 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)

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

Ident. No. _____

Point of Diversion/Place of Use Supplement

Attachment to: Application for Permit to Appropriate Water Application for Transfer** Adjudication Claim
 Application for Amendment of Permit Beneficial Use Field Report Statutory Claim

Location of points of diversion (POD):

New POD?	Twp	Rge	Sec	Govt Lot	¼	¼	¼	County	Source	Local name or well/diversion tag #
<input type="checkbox"/> Yes										
<input type="checkbox"/> Yes										
<input type="checkbox"/> Yes										
<input type="checkbox"/> Yes										
<input type="checkbox"/> Yes										
<input type="checkbox"/> Yes										
<input type="checkbox"/> Yes										
<input type="checkbox"/> Yes										
<input type="checkbox"/> Yes										
<input type="checkbox"/> Yes										
<input type="checkbox"/> Yes										

Description of place of use (POU):

- 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.

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
51N	5W	30						C	C											
								FFS	FFS											
									FS											

APPLICATION FOR PERMIT
BECK INDUSTRIAL PARK PROJECT DETAILS

AAK LLC of Dalton Gardens, Idaho owns a total of 35 acres in the northwest quarter (NW ¼) of the northwest quarter (NW ¼) and the southwest quarter (SW ¼) of the northwest quarter (NW ¼) of Section 30, Township 51 North, Range 5 West, Boise Meridian in Kootenai County, Idaho. Parcels included Nos. 51N05W-30-3520 (Parcel B on attached Exhibit B) and 51N05W-30-3600 (Parcel A on attached Exhibit B). The property originally contained 35 acres of alfalfa and was irrigated under Water Right No. 95-16533 at 0.69 cubic feet per second (cfs) and 105 acre-feet (AF).

AAK LLC is developing a commercial industrial park that will contain seven 5-acre commercial lots (Attached Figure 1). A ten-inch well will be drilled to supply water to the project. A one million-gallon, lined pond will be constructed to provide storage for fire protection, industrial (construction water projects), commercial, and irrigation (7 acres landscaping). A double check valve will be installed at discharge to pond to provide domestic water for one lot (up to 20 employees). The other lots will be sold and the new owners will be responsible to drill their own domestic well to provide potable water to their respective businesses. AAK LLC will continue to own and operate the well and pond and provide non-domestic water (fire, industrial, commercial and irrigation) to the other lots. The site will be fenced and a flow meter will be installed at the new well. Anticipated build out is within 5 years.

WATER USE CALCULATIONS

Domestic (only one lot; up to 20 employees)

- 0.04 cfs

Irrigation (3/15 to 11/15)

- 7 ac x 0.02 cfs/ac = 0.14 cfs

Irrigation Storage and Irrigation from Storage (1/1 to 12/31)

- 7 ac x 3 AF/ac = 21 AF

Industrial Storage and Industrial from Storage (construction water for nearby road and development projects)

- 20 million gal x 1 AF / 325,850 gal = 61.4 AF

Commercial, Commercial Storage and Commercial from Storage (limited to 0.04 cfs and 2,500 gpd per lot [e.g., "other uses" provided in 42-111(1)(b)])

- 0.04 cfs x 7 lots = 0.28 cfs
- 2,500 gpd x 7 lots = 17,500 gpd
 - 17,500 gpd x 365 days/yr = 6,387,500 gpy

- $6,387,500 \text{ gpy} / 325,850 \text{ gal/AF} = \underline{19.6 \text{ AF}}$

Fire Protection (Kootenai Fire District requirements – 2500 gpm for 2 hours)

- $2500 \text{ gallons per minute (gpm)} \times 60 \text{ min/hr} \times 2 \text{ hours} = 300,000 \text{ gal}$

Fire Protection Storage

- $2.6 \text{ AF (Pond capacity)} + 0.6 \text{ AF (Evaporation)} = 3.2 \text{ AF}$

Fire Protection from Storage

- $2.6 \text{ AF (Pond capacity)} + 0.6 \text{ AF (Evaporation)} = 3.2 \text{ AF}$

Diversion to Storage

- 0.69 cfs

Storage (see attached pond calculations)

- $\text{Volume} = 131,625 \text{ cubic feet} / 43,560 \text{ sf/ac} = 3.02 \text{ AF}$
- "Average Pond Volume" = 2.6 AF
- $\text{Surface Area} = 18,900 \text{ square feet} / 43,560 \text{ sf/ac} = 0.4339 \text{ ac}$
- Evaporation loss = 0.6 AFY
- Multiple Fill Volumes (above initial fill)
 - $\text{Volume "needed" from storage} = 21 \text{ AF} + 61.4 \text{ AF} + 19.6 \text{ AF} + 3.2 \text{ AF} = 105.2 \text{ AF}$
 - $105.2 \text{ AF} - 2.6 \text{ AF} = 102.6 \text{ AF}$

Total quantity to be appropriated

- 0.69 cfs
- $2.6 \text{ AF (Pond Capacity)} + 102.6 \text{ AF (Multiple Fill Volumes)} + 0 \text{ AF (Seepage Loss)} + 0.6 \text{ AF (Evaporation Loss)} = 105.8 \text{ AF}$

EXHIBIT B

SECTION 30, TOWNSHIP 51 NORTH, RANGE 5 WEST, B.M.,
KOOTENAI COUNTY, IDAHO

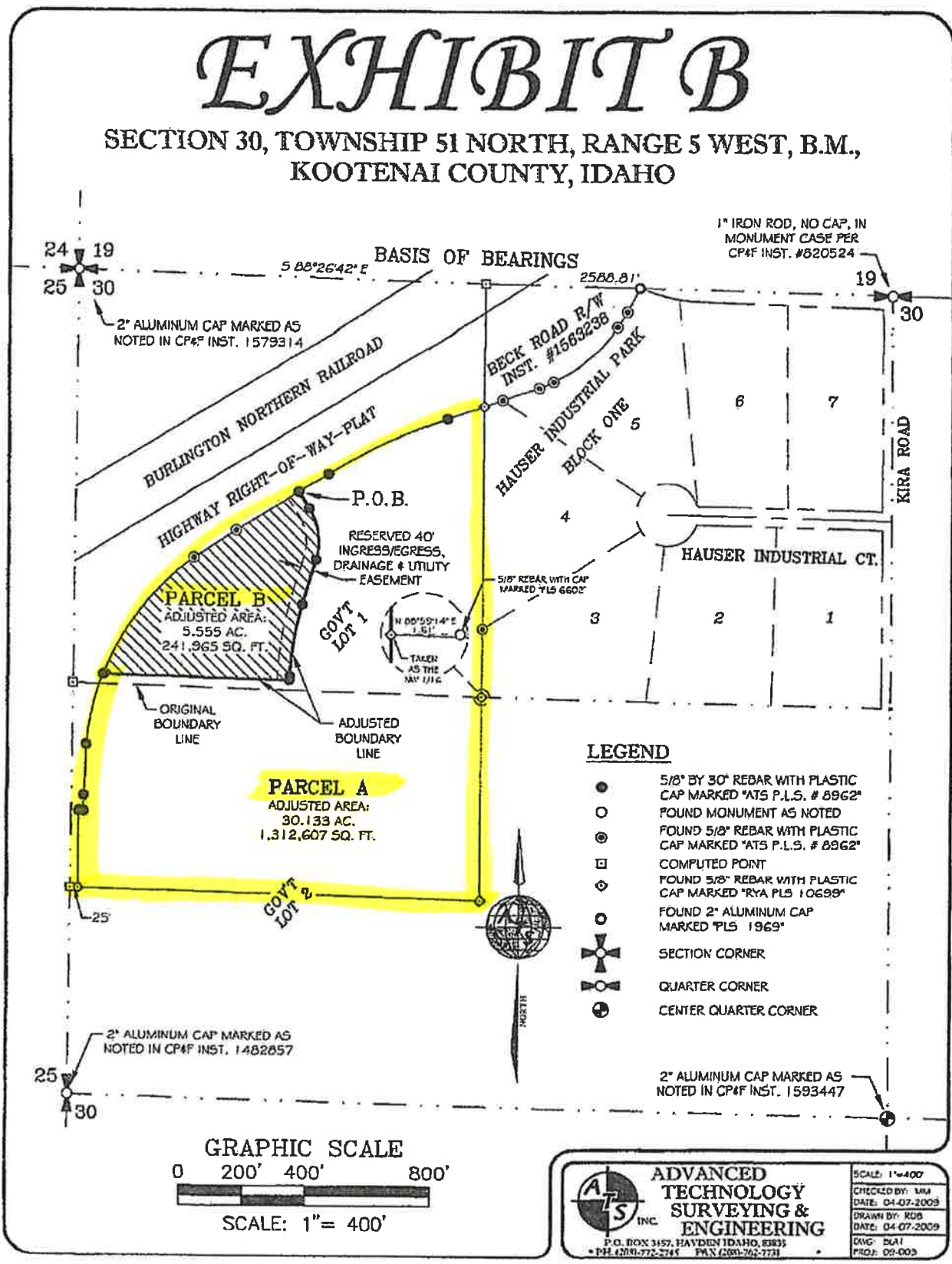
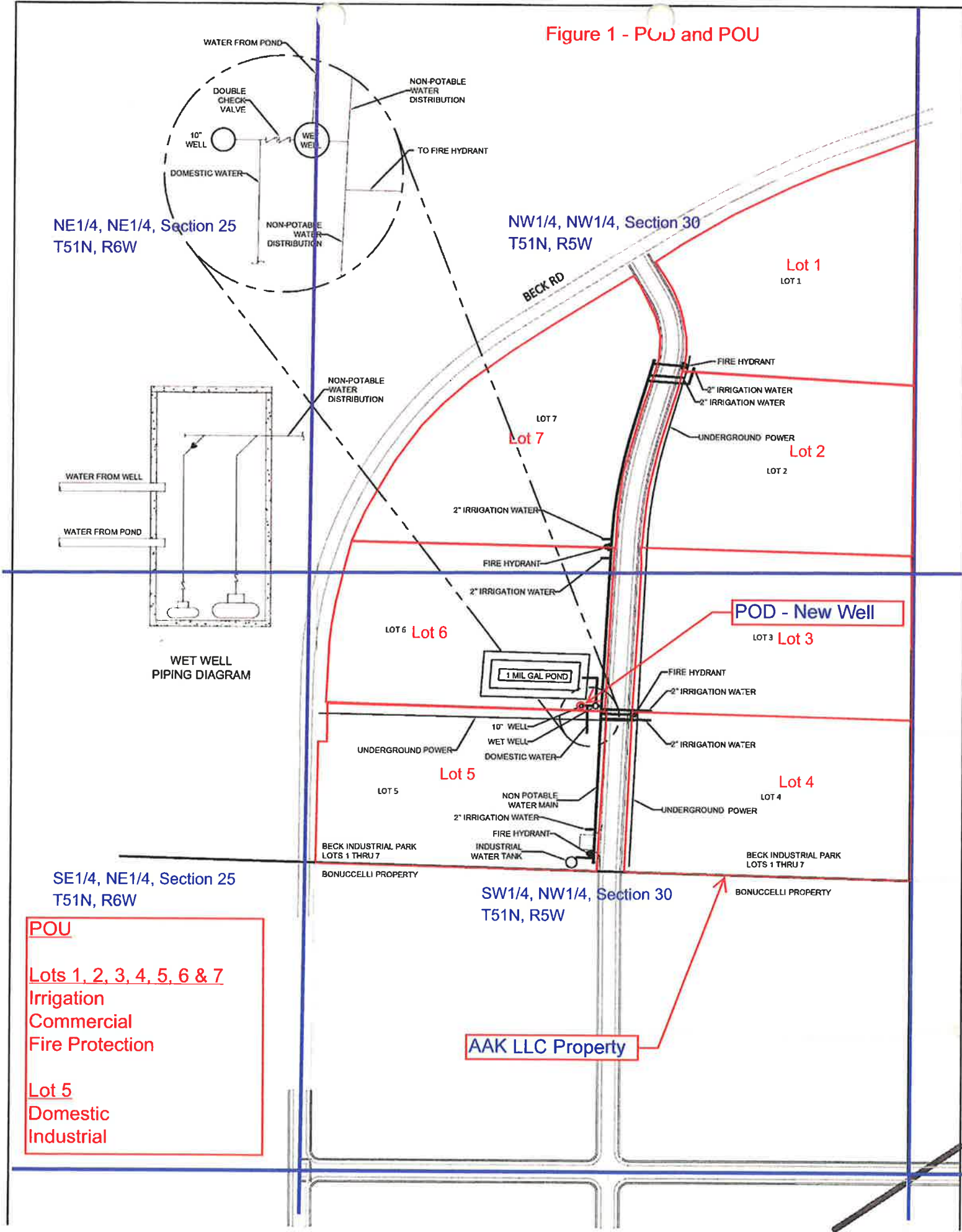
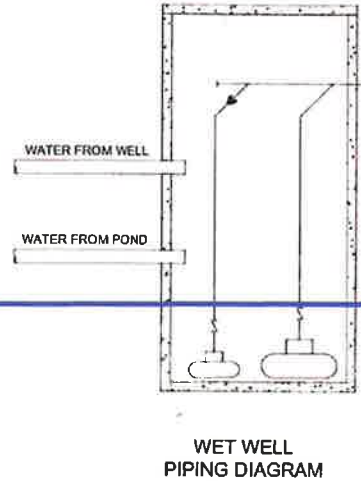


Figure 1 - POU and POU



NE1/4, NE1/4, Section 25
T51N, R6W

NW1/4, NW1/4, Section 30
T51N, R5W



SE1/4, NE1/4, Section 25
T51N, R6W

SW1/4, NW1/4, Section 30
T51N, R5W

POU
 Lots 1, 2, 3, 4, 5, 6 & 7
 Irrigation
 Commercial
 Fire Protection

 Lot 5
 Domestic
 Industrial

AAK LLC Property

POD - New Well

BONUCELLI PROPERTY

BONUCELLI PROPERTY

Lot 1
LOT 1

Lot 7
LOT 7

Lot 2
LOT 2

Lot 6
LOT 6

Lot 3
LOT 3

Lot 5
LOT 5

Lot 4
LOT 4

BECK INDUSTRIAL PARK
LOTS 1 THRU 7

BECK INDUSTRIAL PARK
LOTS 1 THRU 7

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	01137-01
REVIEWER	NWGC
DATE	4/23/2019

User Input
Calculated value
Formula Explanations

INPUTS

Pond Surface Area (AC.)	0.4	AC.
-------------------------	-----	-----

Pond Surface Area (SQ. FT.)	18901	SQ. FT.
-----------------------------	-------	---------

I used the following method to obtain my Soil Classification information:	NRCS Web Soil Survey	
My Soil Classification is	Lined	
Suggested Seepage Rate (FT./DAY)	0	FT./DAY

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

Convert to GPD	0	GPD
----------------	---	-----

Total Seepage Loss (AFA)	0.0	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.

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	01137-01
REVIEWER	NWGC
DATE	4/23/2019

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: Rathdrum Prairie (PN-AM -- RTHI)

Month	mm/day ¹	Days per month	mm/Month
Jan	-2.20	31	0.00
Feb	-0.85	28	0.00
March	-1.74	31	0.00
April	0.31	30	9.30
May	1.79	31	55.49
June	1.41	30	42.30
July	3.68	31	114.08
August	3.55	31	110.05
September	2.29	30	68.70
October	-0.95	31	0.00
November	-1.89	30	0.00
December	-2.51	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 = 399.92

$$\left(\frac{399.92}{304.8} \right) \times 0.43 = 0.6 \text{ AFA}$$

Total Storage Calculations

FILE NUMBER	01137-01
REVIEWER	NWGC
DATE	4/23/2019

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.)	0.4	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	6	"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)	2.6	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)	102.6	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)	0.0	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)	105.8	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.

Flow Rate into Pond (CFS)	0.69	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)	3.68	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)	0.01	"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)	0.00	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	2	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 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.
Days Required to Fill the Pond at 13,000 Gallons per Day	75	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 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. 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.



University of Idaho

Kimberly Research and Extension Center

[Water Resources Program](#)

*ET*_{Idaho} 2017

Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for
improving this site to robison at
uidaho dot edu

2019-04-18 15:40

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Idaho.

Rathdrum Prairie (PN-AM -- RTHI)

Statistics based on thirty year normal spans 2009 to 2016 years

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 - small stock ponds 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	Annual
Mean^j	mm/day												mm		
Monthly ^c	-2.20	-0.85	-1.74	0.31	1.79	1.41	3.68	3.55	2.29	-0.95	-1.89	-2.51	89	0	89
15-Day Moving Average ^d	-2.15	-0.93	-1.78	0.53	1.94	1.15	3.46	3.53	2.37	-0.66	-2.10	-2.56			
7-Day Moving Average ^e	-2.16	-0.89	-1.73	0.44	1.84	1.32	3.58	3.59	2.36	-0.86	-1.94	-2.60			
3-Day Moving Average ^f	-2.23	-0.87	-1.75	0.32	1.79	1.40	3.66	3.59	2.29	-0.92	-1.86	-2.52			
Standard Deviation^k	mm/day												mm		



0003464370



STATE OF IDAHO
 Office of the secretary of state, Lawrence Denney
ANNUAL REPORT
 Idaho Secretary of State
 PO Box 83720
 Boise, ID 83720-0080
 (208) 334-2301
 Filing Fee: \$0.00

For Office Use Only
-FILED-
 File #: 0003464370
 Date Filed: 3/27/2019 10:48:17 PM

B0213-1159 03/27/2019 10:48 PM Received by ID Secretary of State Lawrence Denney

Entity Name and Mailing Address:
 AAK, LLC
 The file number of this entity on the records of the Idaho Secretary of State is: 0000598039
 Address: 6960 N 4TH ST
 DALTON GARDENS, ID 83815-8781

Entity Details:
 Entity Status: Active-Existing
 This entity is organized under the laws of: IDAHO
 If applicable, the old file number of this entity on the records of the Idaho Secretary of State was: W198241

The registered agent on record is:
 Registered Agent: BILL KRICK
 Registered Agent
 Physical Address: 6960 N 4TH ST
 DALTON, ID 83815
 Mailing Address

Limited Liability Company Managers and Members

Name	Title	Address
NORTHWEST GRADING INC	Member	6960 N 4TH ST DALTON, ID 83815

The annual report must be signed by an authorized signer of the entity.
William J. Krick 03/27/2019
 Sign Here Date
 Signer's Title: Member



State of Idaho

DEPARTMENT OF WATER RESOURCES

Northern Region • 7600 N Mineral Drive, Suite 100 • Coeur D'Alene ID 83815-7763

Phone: (208) 762-2800 • Fax: (208) 762-2819

Website: idwr.idaho.gov • Email: northerninfo@idwr.idaho.gov

BRAD LITTLE
Governor

GARY SPACKMAN
Director

May 8, 2019

AAK LLC
6960 N 4TH ST
DALTON GDNS, ID 83815-8781

Application For Permit No. 95-17807

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 COEUR D ALENE PRESS on 5/16/2019 and 5/23/2019. 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 that reads "Tammy Alleman".

Tammy Alleman
Administrative Assistant

CC:
NORTHWEST GROUNDWATER CONSULTANTS LLC
2660 E THOMAS HILL DR
COEUR D ALENE, ID 83815-6335

Alleman, Tammy

From: Alleman, Tammy
Sent: Wednesday, May 08, 2019 3:59 PM
To: 'Anna.Moody@deq.idaho.gov'
Subject: Request for Comments on 95-17807
Attachments: 95-17807 Application for Permit.pdf

Dear Department of Environmental Quality:

The Department of Water Resources is seeking written comment and/or recommendations from your agency regarding the above referenced Water Right application. You can find copies of the application 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 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 the 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 the application is June 3, 2019.**

Please contact the Northern Region Office at (208) 762-2800 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: Wednesday, May 08, 2019 3:48 PM
To: 'LEGALS@CDAPRESS.COM'
Subject: Legal Notice
Attachments: Legal Notice for 91-8033, 95-17806, 95-17807, 95-17808, & 95-17811.doc

Please publish the enclosed legal notice in the **Coeur d'Alene Press** on the dates indicated **May 16th and May 23rd, 2019** (once a week for two consecutive weekly issues). 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 6/3/2019. Your cooperation is appreciated.

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*

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

91-8033

STATE OF IDAHO
DEPT OF TRANSPORTATION
600 W PRAIRIE AVE
COEUR D ALENE, ID 83815-8764
Point of Diversion NESE
S25 T47N R03W
KOOTENAI County
Source GROUND WATER
Use: DOMESTIC
01/01 to 12/31 0.04 CFS
Total Diversion: 0.04 CFS
Date Filed: 5/2/2019
Place Of Use: DOMESTIC
T47N R03W S25 NESE

95-17806

THE CJKS & CJ TRUST
C/O CRAIG SINGER
11463 W RIVERVIEW DR
POST FALLS, ID 83854-5721
Point of Diversion NWNW
S32 T51N R05W
KOOTENAI County
Source GROUND WATER
Use: DOMESTIC
01/01 to 12/31 0.14 CFS
Use: IRRIGATION
03/15 to 11/15 0.18 CFS
Total Diversion: 0.32 CFS
Date Filed: 4/26/2019
Place Of Use: DOMESTIC
T51N R05W S32
NENW NWNW
Place Of Use: IRRIGATION
T51N R05W S32
NENW NWNW

95-17807

AAK LLC
6960 N 4TH ST
DALTON GARDENS, ID 83815-8781
Point of Diversion L2(SWNW)
S30 T51N R05W
KOOTENAI County
Source GROUND WATER
Use: COMMERCIAL
01/01 to 12/31 0.28 CFS
Use: COMMERCIAL FROM STORAGE
01/01 to 12/31 19.6 AF
Use: COMMERCIAL STORAGE
01/01 to 12/31 19.6 AF
Use: DIVERSION TO STORAGE
01/01 to 12/31 0.69 CFS
Use: DOMESTIC
01/01 to 12/31 0.04 CFS
Use: FIRE PROTECTION
01/01 to 12/31 0.69 CFS
Use: FIRE PROTECTION FROM STORAGE
01/01 to 12/31 3.2 AF
Use: FIRE PROTECTION STORAGE
01/01 to 12/31 3.2 AF
Use: INDUSTRIAL FROM STORAGE
01/01 to 12/31 61.4 AF
Use: INDUSTRIAL STORAGE
01/01 to 12/31 61.4 AF
Use: IRRIGATION
03/15 to 11/15 0.14 CFS
Use: IRRIGATION FROM STORAGE
03/15 to 11/15 21 AF
Use: IRRIGATION STORAGE
01/01 to 12/31 21 AF
Total Diversion: 0.69 CFS
Date Filed: 4/25/2019
Place Of Use: DOMESTIC
T51N R05W S30
L2(SWNW)
Place Of Use: IRRIGATION
T51N R05W S30

L1(NWNW) L2(SWNW)
Place Of Use: COMMERCIAL
T51N R05W S30
L1(NWNW) L2(SWNW)
Place Of Use: FIRE PROTECTION
T51N R05W S30
L1(NWNW) L2(SWNW)
Place Of Use: IRRIGATION STORAGE
T51N R05W S30
L2(SWNW)
Place Of Use: IRRIGATION FROM STORAGE
T51N R05W S30
L1(NWNW) L2(SWNW)
Place Of Use: COMMERCIAL STORAGE
T51N R05W S30
L2(SWNW)
Place Of Use: COMMERCIAL FROM STORAGE
T51N R05W S30
L1(NWNW) L2(SWNW)
Place Of Use: FIRE PROTECTION STORAGE
T51N R05W S30
L2(SWNW)
Place Of Use: FIRE PROTECTION FROM STORAGE
T51N R05W S30
L1(NWNW) L2(SWNW)
Place Of Use: INDUSTRIAL STORAGE
T51N R05W S30
L2(SWNW)
Place Of Use: INDUSTRIAL FROM STORAGE
T51N R05W S30
L2(SWNW)

95-17808

JEFFREY HAKALA
STEPHANIE HAKALA
2073 NACHES HEIGHTS RD
YAKIMA, WA 98908-8820
Point of Diversion SENW
S7 T49N R03W
KOOTENAI County
Source COEUR D ALENE LAKE
Tributary SPOKANE RIVER
Use: DOMESTIC
01/01 to 12/31 0.04 CFS
Total Diversion: 0.04 CFS
Date Filed: 4/29/2019
Place Of Use: DOMESTIC
T49N R03W S7
L3(SENW)

95-17811

MICHAEL A FAUNTLEROY
NANCY L FAUNTLEROY
PO BOX 3055
HAYDEN, ID 83835-3055
Point of Diversion NWSE
S10 T52N R04W
KOOTENAI County
Source GROUND WATER
Use: DOMESTIC
01/01 to 12/31 0.04 CFS
Total Diversion: 0.04 CFS
Date Filed: 5/6/2019
Place Of Use: DOMESTIC
T52N R04W S10 NWSE

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 N MINERAL DR STE 100, COEUR D ALENE ID 83815-7763 together with a protest fee of \$25.00 for each application on or before 6/3/2019. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on 5/16/2019 and 5/23/2019