

RECEIVED**OCT 21 2013****AMENDED**STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESIdent. No. 37-22847**APPLICATION FOR PERMIT**

To appropriate the public waters of the State of Idaho

DEPT. OF WATER RESOURCES

SOUTHERN REGION

1. Name of applicant(s) Tom R. Norris Phone 415 722 6835Name connector (check one): ☐ and ☐ or ☐ and/orMailing address: 2351 Clay Street, suite 510 City San FranciscoState CA Zip 94115

Email: _____

2. Source of water supply Ground Water which is a tributary of _____

3. Location of point(s) of diversion:

Twp	Rge	Sec	Govt Lot	1/4	1/4	1/4	County	Source	Local name or tag #
3N	18E	7		NE	SE		Blaine	Ground Water	Lot2BLittle Mac Sub

4. Water will be used for the following purposes:

Amount 0.04 13,000gpd for *Domestic 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)5. Total quantity to be appropriated is (a) 0.04 cubic feet per second (cfs) and/or (b) _____ acre-feet per year (af).

6. Proposed diverting works:

a. Describe type and size of devices used to divert water from the source. Well and pumpb. Height of storage dam NA feet; active reservoir capacity NA acre-feet; total reservoir capacity NA 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 OR reservoirs with a total 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 ☐ Noc. Proposed well diameter is 6 inches; proposed depth of well is 100 feet.d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☒ Noe. If well is already drilled, when? YES; drilling firm _____;

Well was drilled for (well owner) _____; Drilling Permit No. _____

7. Description of proposed uses (if irrigation only, go to item 8):

a. Hydropower; show total feet of head and proposed capacity in kW. _____

b. Stockwatering; list number and kind of livestock. _____

c. Municipal; show name of municipality or the applicant's qualifications as a municipal provider. _____

d. Domestic; show number of households 1 housee. Other; describe fully. *Mitigation of 0.09 acres of open water for pond expansion, cessation of irrigation of 0.06 acres

ORIGINAL

8. 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	
3N	18E	7													D				

Total number of acres to be irrigated: 0.44

9. 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? This water only

10. 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: _____

11. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary. See attached narrative for application 37-08916

12. Time required for completion of works and application of water to proposed beneficial use is 2 years (minimum 1 year).

13. **MAP OF PROPOSED PROJECT REQUIRED** - Attach an 8½" x 11" map clearly identifying the proposed point of diversion, place of use, section #, township & range. A photocopy of a USGS 7.5 minute topographic quadrangle map is preferred.

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
Bruce Smith
 Print Name (and title, if applicable)


 Signature of Applicant

 Print Name (and title, if applicable)

For Department Use:

Received by P. SKINNER Date 10/21/13 Time _____ Preliminary check by _____
 Fee \$ 100.00 Received by P. SKINNER Receipt No. 5033469 Date 8/15/2013

NARRATIVE FOR PERMIT APPLICATION-TOM R. NORRIS

September 6 , 2013

Brockway Engineering, PLLC

C. E. Brockway, P.E.

This application is being submitted to establish a water right for an existing water use within a minor channel of the Big Wood River known as Little Mackawao channel and to provide a water right for an expansion of an existing pond for aesthetic and recreation purposes associated with a planned new residence. The entrance or mouth of the channel at the Big Wood River is uncontrolled, but is protected from erosion by rock placed historically for bank stabilization. The channel is located just upstream of East Fork road (see the attached map and 2011 aerial photo). From the point of diversion on the Big Wood River to the point of return flow, the channel is approximately 1,640 feet long, not including a pond containing approximately 1.68 acre-feet located 250 feet upstream of the return flow point to the Big Wood River. The pond was constructed in 1979 and contains water year-round, being filled either with surface water or partially filled with shallow groundwater. The channel carries water when the river level is moderate or high, and ceases to flow when the river level declines below the mouth of the entrance. No records have been kept on the magnitude or the timing of discharge in the channel, but it appears that the channel has historically carried water at least through June and perhaps through July and August in wetter years. In the 2013 season, river levels have been extremely low; however, the channel was flowing in late June.

No water rights currently exist for the pond. Application No 37-08916 was filed in 2000 by Walker Monroe, a residential owner and neighbor adjacent to the channel north west of the pond. The ownership of this application, which is still active, was transferred to Tom R. Norris on May 10, 2013. Mr. Norris, is proposing the construction of a residence adjacent to the pond on Lot2B of the Little Makawao subdivision (see attached plat map), and an expansion of the existing pond. The proposed permit would codify storage within the pond.

No new water diversion is being requested by the permit application. The pond has been in place since 1979, and the channel has historically carried water.

The Watermaster of District 37, Mr. Kevin Lakey, has been contacted regarding the proposed permit and he indicated that, based on the proposed plan, he did not see a problem with the proposal, provided that adequate information was provided showing that mitigation for increased evaporation was, in fact, provided by reduction of irrigated area. There are no diversions from the Big Wood River between the Little Mackawao channel entrance and the return flow point.

The application is being made in the name of Tom R. Norris, who is the owner of Lot 2B within the subdivision. The point of diversion from the pond is on Lot 2B since the lowest point in the excavated pond is in lot 2B. The channel flows through the subdivision and across property owned by various members of the homeowner's association.

The existing pond area on Lot 2B, owned by Norris is 0.18 acres and the existing pond area on Lot 3A, owned by Wheeler, is 0.30 acres for a total existing pond area of 0.48 acres. The existing pond has an estimated average depth of 3.5 feet for a total current volume of 1.68 acre feet $((0.48) \times 3.5)$. The volume on lot 2B is 0.63 acre feet (0.18×3.5) . It is not proposed to remove material (sediment) from the entire pond but only to expand

the lower part of the pond on Lot 2B as shown on the attached aerial photo. The area of the proposed pond expansion is 0.09 acres. The depth of water on the expanded wetted area of the pond will be equal to the existing pond depth of 3.5 feet. The proposed expansion of the pond area for aesthetic purposes (0.09 acres) on the Norris property (Lot 2B) results in an increase in pond volume of 0.32 acre feet (0.09×3.5) as shown on the enclosed plan drawing prepared by the architect, Curtis Kemp. Seasonal precipitation deficit (Pdef) from shallow open water surfaces, based on data from the University of Idaho, ETIdaho 2011, is 385 mm/year (1.26 ft/year) at the Hailey Ranger Station. The evaporation from the 0.09 acres of proposed expansion of the pond area is therefore $1.26 \times 0.09 = 0.11$ ac ft./year.

The Pdef for pasture at the Hailey Ranger Station is 500 mm/yr or 1.64 acft/ac/year. It is proposed to mitigate the first-time fill volume and the first year evaporation of the increased expanded pond volume ($0.32 + 0.11 = 0.43$) acre feet by rental for one year of a Big Wood River irrigation water right with an approved irrigated area of at least 0.26 acres ($0.43/1.64$).

Implementation of the proposed expansion results in a total pond area of 0.57 acres and a total pond volume of 2.0 acre feet. The annual evaporation from the 0.57 acre pond will be 0.72 af (1.26×0.57). The permit application request includes the storage volume of the expanded pond (2.00 af) plus the annual evaporation ($0.57 \times 1.26 = 0.72$ af) for a total of 2.72 acre feet.

Annual evaporation of 0.11 acre feet from the proposed expansion of pond area will be mitigated by utilizing part of the 13,000 gal of groundwater allowed under a new domestic/mitigation water right for the new residence. The statutory domestic ground water right allows irrigation of 0.5 acres of lawn and landscaping associated with the residence. The annual Pdef for turf at the Hailey Ranger Station is 597 mm/year (1.96 af/ac/yr) and annual Pdef on 0.5 acres is 0.98 acre feet per year. The Pdef on the expanded pond area for aesthetics is therefore $0.11/0.98 = 11\%$ of the allowed irrigation volume under the domestic water right or the equivalent of irrigation of 0.06 acres.

Utilization of the consumptive use on 0.06 acres turf and landscaping for mitigation for the new open water evaporation will limit the lawn and landscaping irrigation associated with the residence to 0.44 acres instead of 0.5 acres.

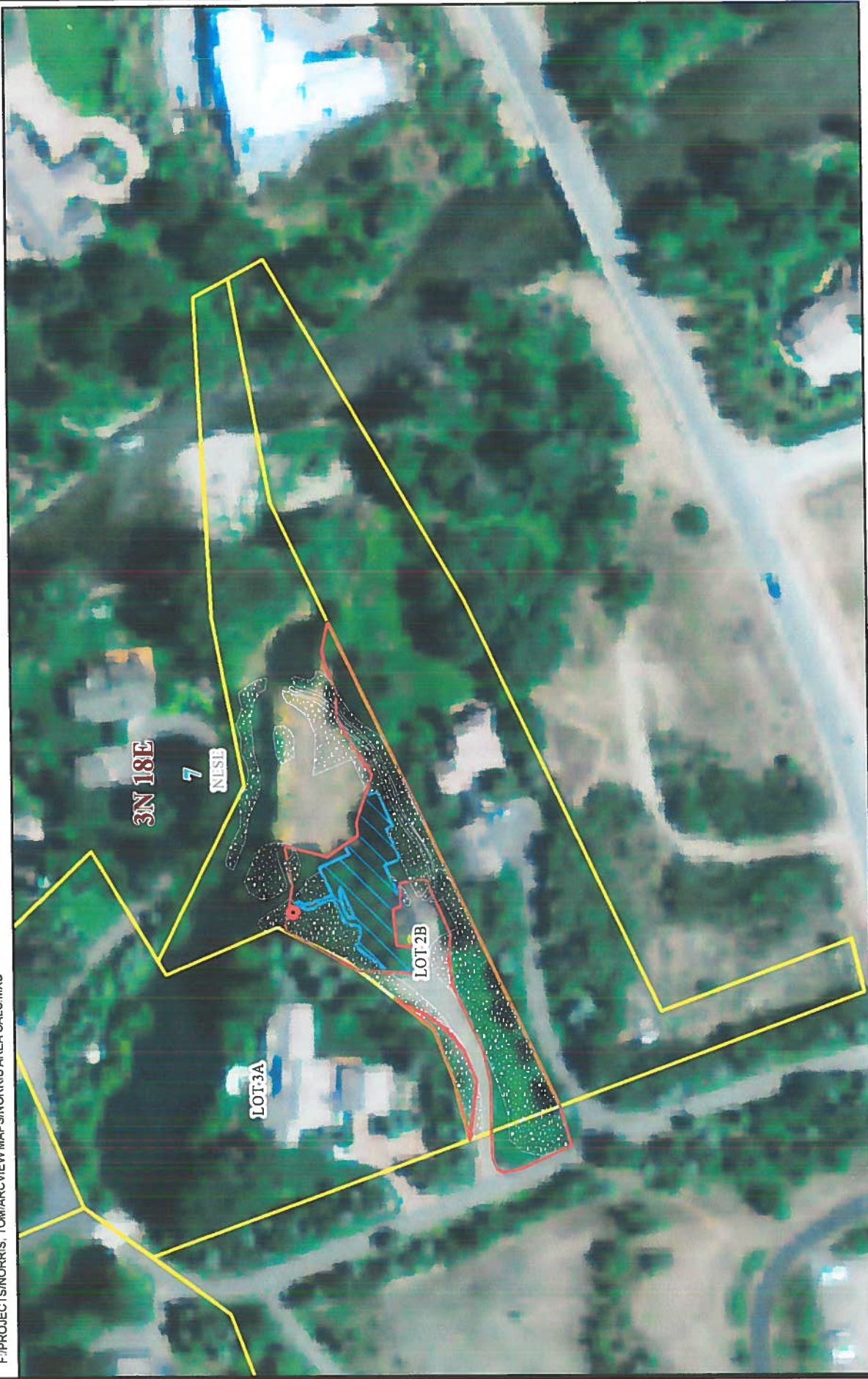
There is an existing house on lot 2B with a domestic well for which there is a domestic exemption. The well currently provides water for in-house use and is used to irrigate 0.5 acres (see attached aerial photo). A total of 0.06 acres of currently irrigated landscaping will be permanently dried up to mitigate for the evaporation from the proposed expansion of the pond. The location of the remaining 0.44 acres is shown on the attached aerial map. The attached application for a domestic well for the new residence includes in-house water and irrigation of 0.44 acres with 0.06 acres of irrigation dedicated to the mitigation of evaporation from the pond expansion.



- Legend**
- PROPOSED POND LOTS 2B & 3A, 0.57 AC
 - Well
 - tile_Makawao_Sub
 - EXISTING WATER AREA LOT 2B & 3A, 0.48 ACRES
 - PROPOSED NEW POND LOT 2B, 0.09 AC
 - Proposed Residence
 - Bridges
 - township
 - Sections
 - QQ lines

NORRIS, TOM
PROPOSED POND EXPANSION
NAIP 2011 AERIAL PHOTO.

BROCKWAY ENGINEERING, PLLC.
ALR - AUG. 27, 2013



- Legend**
- Well
 - Previous Irrigation 0.5 Ac.
 - Irrigation Reduction
 - Proposed Irr. Post-Construction 0.44 AC
 - Little_Makawao_Sub

**NORRIS, TOM
PRE & POST IRRIGATION
NAIP 2011 AERIAL PHOTO.**

ET Idaho 2012 -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison@kimberly dot uidaho dot edu Copyright 2012, University of Idaho.

Hailey Ranger Stn (NWS -- 103942)

Statistics based on thirty year normal spans 1932 to 1981 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 - shallow systems (ponds, streams)

Precipitation Deficit (Click here for a graph)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Non Growing Season ^b	Annual
Mean ^j	mm/day												mm		
Monthly ^f	-1.35	-0.84	0.18	1.42	2.24	2.83	3.96	3.33	2.18	1.00	-0.56	-1.78	385	0	385
15-Day Moving Average ^d	-1.44	-0.83	0.12	1.56	2.28	2.95	4.06	3.32	2.21	1.02	-0.77	-1.76			
7-Day Moving Average ^e	-1.38	-0.83	0.16	1.50	2.30	2.86	4.03	3.32	2.22	1.04	-0.62	-1.79			
3-Day Moving Average ^f	-1.37	-0.84	0.18	1.44	2.26	2.84	3.97	3.33	2.20	1.01	-0.57	-1.78			
Standard Deviation ^k	mm/day												mm		
Monthly ^f	1.74	1.07	1.18	0.87	1.57	1.04	0.79	1.36	0.90	1.00	1.07	2.60	127	0	127
15-Day Moving Average ^d	2.02	1.40	1.21	1.17	1.46	1.38	0.62	1.35	1.15	1.00	1.59	2.62			
7-Day Moving Average ^e	2.82	2.01	1.57	1.65	1.78	1.94	0.89	1.60	1.42	1.38	2.04	3.56			
3-Day Moving Average ^f	3.81	2.79	2.15	2.42	2.32	2.54	1.38	2.10	1.94	1.94	2.75	4.62			
20% Exceedance ^l	mm/day												mm		
Monthly ^f	-0.39	0.17	0.91	2.11	3.29	3.75	4.46	3.84	2.78	1.67	0.31	-0.48	470	0	470
15-Day Moving Average ^d	0.35	0.57	1.40	2.98	4.01	4.26	4.64	4.27	3.30	2.18	0.72	0.36			

- ^h Mean of the highest/lowest 7-day period average in month
- ⁱ Mean of the highest/lowest 3-day period average in month
- ^j This value represents the *mean value* for the parameter for the month over the 'normal' period of record. Generally, the 'normal' period is the last thirty years with data.
- ^k This value represents the *standard deviation* for the parameter for the month over the 'normal' period.
- ^l This value represents the *value* for the parameter that has a 20% chance of being exceeded that month during any particular year. Conversely, there is an 80% chance that the parameter value will be less than the *value* shown.
- ^m This value represents the *value* for the parameter that has a 80% chance of being exceeded that month during any particular year. Conversely, there is an 20% chance that the parameter value will be less than the *value* shown.
- ⁿ This value represents the *skewness (asymmetry)* of the distribution of the parameter values for the month (year) over the 'normal' period. A value near zero indicates that the distribution approximates a normal (Gaussian) and symmetrical distribution. A negative skew indicates that the parameter distribution has relatively few low values compared to high values. A positive skew indicates that the distribution has relatively few high values compared to the number of low values. A skew value near 1 indicates that the underlying distribution approximates a lognormal distribution.
- ^o This value represents the *kurtosis* of the parameter value distribution for the month (year) over the 'normal' period. Kurtosis is a measurement of the height to width ratio of the probability distribution, or the *peakedness (slenderness)*. A normal (Gaussian) distribution has a kurtosis of 3. A high kurtosis distribution has a sharper peak and longer tails, while a low kurtosis distribution has a more rounded peak and shorter tails.

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

The citation for the evapotranspiration data used from this site should be: Allen, Richard G. and Clarence W. Robison, 2012. Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho: Supplement updating the Time Series through December 2008, Research Technical Completion Report, Kimberly Research and Extension Center, University of Idaho, Moscow, ID.

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

University of Idaho
A LEGACY OF LEADING

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ETIdaho web site powered by Debian, Anacore, Firebird DBMS, Python, with matplotlib, and kinterbdsb.

RECEIVED

OCT 21 2013

DEPT. OF WATER RESOURCES
SOUTHERN REGION

LIMITED POWER OF ATTORNEY

I, TOM R. NORRIS, M.D., designate and appoint BRUCE M. SMITH, of the City of Boise, County of Ada, State of Idaho, as my attorney-in-fact and agent (subsequently called "agent") to act in my name and for my benefit, before the Idaho Department of Water Resources. Mr. Smith shall have the authority to sign any and all documents pertaining to myself before the Idaho Department of Water Resources.

IN WITNESS WHEREOF, I have executed this Limited Power of Attorney this 23 day of September, 2013.

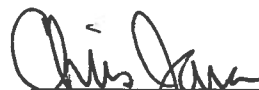

TOM R. NORRIS, M.D.

STATE OF CALIFORNIA)
) ss.
County of San Francisco)

On this 27 day of September, 2013, before me, the undersigned, a Notary Public in and for the state, personally appeared TOM R. NORRIS, M.D., known to me to be the person whose name is subscribed to the within Limited Power of Attorney and acknowledged to me that he executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year in this certificate on the date first above written.




Notary Public for California
Residing at San Francisco, CA
My commission expires: 12/15/2015

RECEIVED

AUG 14 2013

DEPT. OF WATER RESOURCES
SOUTHERN REGIONSTATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
APPLICATION FOR PERMIT

Ident. No. _____

To appropriate the public waters of the State of Idaho

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3N	18E	7		SW	NE		Blaine	Ground Water	Lot2BLittle Mac Sub

4. Water will be used for the following purposes:

Amount 0.04, 13,000gpd for Domestic purposes from 1/1 to 12/31 (both dates inclusive)
(cfs or acre-feet per year)Amount 0.11 af for Mitigation* 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)
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a. Describe type and size of devices used to divert water from the source. Well and pumpb. Height of storage dam NA feet; active reservoir capacity NA acre-feet; total reservoir capacity NA 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 OR reservoirs with a total 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 ☐ Noc. Proposed well diameter is 6 inches; proposed depth of well is 100 feet.d. Is ground water with a temperature of greater than 85°F being sought? ☐ Yes ☒ Noe. If well is already drilled, when? YES; drilling firm 10/21/2013
Well was drilled for (well owner) _____; Drilling Permit No. _____

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b. Stockwatering; list number and kind of livestock. _____

c. Municipal; show name of municipality or the applicant's qualifications as a municipal provider. _____

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TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
3N	18E	7													D,M				

Total number of acres to be irrigated: 0.44

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11. Describe your proposal in narrative form, and provide additional explanation for any of the items above. Attach additional pages if necessary. See attached narrative for application 37-08916

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Signature of Applicant

Print Name (and title, if applicable)

Signature of Applicant

Print Name (and title, if applicable)

For Department Use:

Received by ADM Date 8/14/2013 Time PM Preliminary check by _____

Fee \$ 100.00 Received by P. SKINNER Receipt No. 5033469 Date 8/15/2013 *

* FEE RECEIVED 8/14/2013, RECEIPTED NEXT 2 DAY

NARRATIVE FOR PERMIT APPLICATION-TOM R. NORRIS

July 29, 2013

Brockway Engineering, PLLC

C. E. Brockway, P.E.

This application is being submitted to establish a water right for an existing water use within a minor channel of the Big Wood River known as Little Mackawao channel and to provide a water right for an expansion of an existing pond for aesthetic and recreation purposes associated with a planned new residence. The entrance or mouth of the channel at the Big Wood River is uncontrolled, but is protected from erosion by rock placed historically for bank stabilization. The channel is located just upstream of East Fork road (see the attached map and 2011 aerial photo). From the point of diversion on the Big Wood River to the point of return flow, the channel is approximately 1,640 feet long, not including a pond containing approximately 1.68 acre-feet located 250 feet upstream of the return flow point to the Big Wood River. The pond was constructed in 1979 and contains water year-round, being filled either with surface water or partially filled with shallow groundwater. The channel carries water when the river level is moderate or high, and ceases to flow when the river level declines below the mouth of the entrance. No records have been kept on the magnitude or the timing of discharge in the channel, but it appears that the channel has historically carried water at least through June and perhaps through July and August in wetter years. In the 2013 season, river levels have been extremely low; however, the channel was flowing in late June.

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No new water diversion or usage is being requested by the permit application. The pond has been in place since 1979, and the channel has historically carried water. The permit, if granted, would allow the maintenance of the existing flow regime in the channel to enhance water quality in the pond and to maintain fisheries in the pond and channel.

The Watermaster of District 37, Mr. Kevin Lakey, has been contacted regarding the proposed permit and he indicated that, based on the proposed plan, he did not see a problem with the proposal, provided that 1) adequate information was provided showing that mitigation for increased evaporation was, in fact, provided by reduction of irrigated area. There are no diversions from the Big Wood River between the Little Mackawao channel entrance and the return flow point.

The application is being made in the name of Tom R. Norris, who is the owner of Lot 2B within the subdivision. The point of diversion from the river is located on property owned by Mr. Don Nickelson. The channel flows through the subdivision and across property owned by various members of the homeowner's association.

The existing pond area on Lot 2B, owned by Norris is 0.18 acres and the existing pond area on Lot 3A, owned by Wheeler, is 0.30 acres for a total existing pond area of 0.48 acres. The existing pond has an estimated average depth of 3.5 feet for a total current

volume of 1.68 acre feet $((0.48+0.18) \times 3.5)$ and a volume of 0.63 acre feet (0.18×3.5) on Lot 2B. It is not proposed to remove material (sediment) from the entire pond but only to expand the lower part of the pond on Lot 2B as shown on the attached aerial photo. The area of the proposed pond expansion is 0.09 acres. The depth of water on the expanded wetted area of the pond will be equal to the existing pond depth of 3.5 feet with a freeboard of 1.0 feet or a total depth of excavation of 4.5 feet. The proposed expansion of the pond area for aesthetic purposes(0.09 acres) on the Norris property (Lot 2B) results in an increase in pond volume of 0.32 acre feet (0.09×3.5) as shown on the enclosed plan drawing prepared by the architect, Curtis Kemp.

Seasonal precipitation deficit (Pdef) from shallow open water surfaces, based on data from the University of Idaho, ETIdaho 2011, is 385 mm/year (1.26 ft/year) at the Hailey Ranger Station. The evaporation from the 0.09 acres of proposed expansion of the pond area is therefore $1.26 \times 0.09 = 0.11$ ac ft./year.

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Annual evaporation of 0.11 acre feet from the proposed expansion of pond area will be mitigated by utilizing part of the 13,000 gal of groundwater allowed under a new domestic/mitigation water right for the new residence. The statutory domestic ground water right allows irrigation of 0.5 acres of lawn and landscaping associated with the residence. The annual Pdef for turf at the Hailey Ranger Station is 597 mm/year (1.96 af/ac/yr) and annual Pdef on 0.5 acres is 0.98 acre feet per year. The Pdef on the expanded pond area for aesthetics is therefore $0.11/0.98 = 11\%$ of the allowed irrigation volume under the domestic water right or the equivalent of irrigation of 0.06 acres. Utilization of the consumptive use on 0.06 acres turf and landscaping for mitigation for the new open water evaporation will limit the lawn and landscaping irrigation associated with the residence to 0.44 acres instead of 0.5 acres.

ETIdaho 2012 -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho

Please send suggestions for improving this site to robison at kimberly dot uidaho dot edu Copyright 2012, University of Idaho.

Hailey Ranger Stn (NWS -- 103942)

Statistics based on thirty year normal spans 1932 to 1981 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 - shallow systems (ponds, streams)													
Precipitation Deficit (Click here for a graph)													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Mean ^j	mm/day												mm
Monthly ^c	-1.35	-0.84	0.18	1.42	2.24	2.83	3.96	3.33	2.18	1.00	-0.56	-1.78	385
15-Day Moving Average ^d	-1.44	-0.83	0.12	1.56	2.28	2.95	4.06	3.32	2.21	1.02	-0.77	-1.76	
7-Day Moving Average ^e	-1.38	-0.83	0.16	1.50	2.30	2.86	4.03	3.32	2.22	1.04	-0.62	-1.79	
3-Day Moving Average ^f	-1.37	-0.84	0.18	1.44	2.26	2.84	3.97	3.33	2.20	1.01	-0.57	-1.78	
Standard Deviation ^k	mm/day												mm
Monthly ^c	1.74	1.07	1.18	0.87	1.57	1.04	0.79	1.36	0.90	1.00	1.07	2.60	127
15-Day Moving Average ^d	2.02	1.40	1.21	1.17	1.46	1.38	0.62	1.35	1.15	1.00	1.59	2.62	
7-Day Moving Average ^e	2.82	2.01	1.57	1.65	1.78	1.94	0.89	1.60	1.42	1.38	2.04	3.56	
3-Day Moving Average ^f	3.81	2.79	2.15	2.42	2.32	2.54	1.38	2.10	1.94	1.94	2.75	4.62	
20% Exceedance ^l	mm/day												mm
Monthly ^c	-0.39	0.17	0.91	2.11	3.29	3.75	4.46	3.84	2.78	1.67	0.31	-0.48	470
15-Day Moving Average ^d	0.35	0.57	1.40	2.98	4.01	4.26	4.64	4.27	3.30	2.18	0.72	0.36	

- ^h Mean of the highest/lowest 7-day period average in month
- ⁱ Mean of the highest/lowest 3-day period average in month
- ^j This value represents the *mean value* for the parameter for the month over the 'normal' period of record. Generally, the 'normal' period is the last thirty years with data.
- ^k This value represents the *standard deviation* for the parameter for the month over the 'normal' period.
- ^l This value represents the *value* for the parameter that has a 20% chance of being exceeded that month during any particular year. Conversely, there is an 80% chance that the parameter value will be less than the *value* shown.
- ^m This value represents the *value* for the parameter that has a 80% chance of being exceeded that month during any particular year. Conversely, there is an 20% chance that the parameter value will be less than the *value* shown.
- ⁿ This value represents the *skewness (asymmetry) of the distribution of the parameter values* for the month (year) over the 'normal' period. A value near zero indicates that the distribution approximates a normal (Gaussian) and symmetrical distribution. A negative skew indicates that the parameter distribution has relatively few low values compared to high values. A positive skew indicates that the distribution has relatively few high values compared to the number of low values. A skew value near 1 indicates that the underlying distribution approximates a lognormal distribution.
- ^o This value represents the *kurtosis* of the parameter value distribution for the month (year) over the 'normal' period. Kurtosis is a measurement of the height to width ratio of the probability distribution, or the *peakedness (slenderness)*. A normal (Gaussian) distribution has a kurtosis of 3. A high kurtosis distribution has a sharper peak and longer tails, while a low kurtosis distribution has a more rounded peak and shorter tails.

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

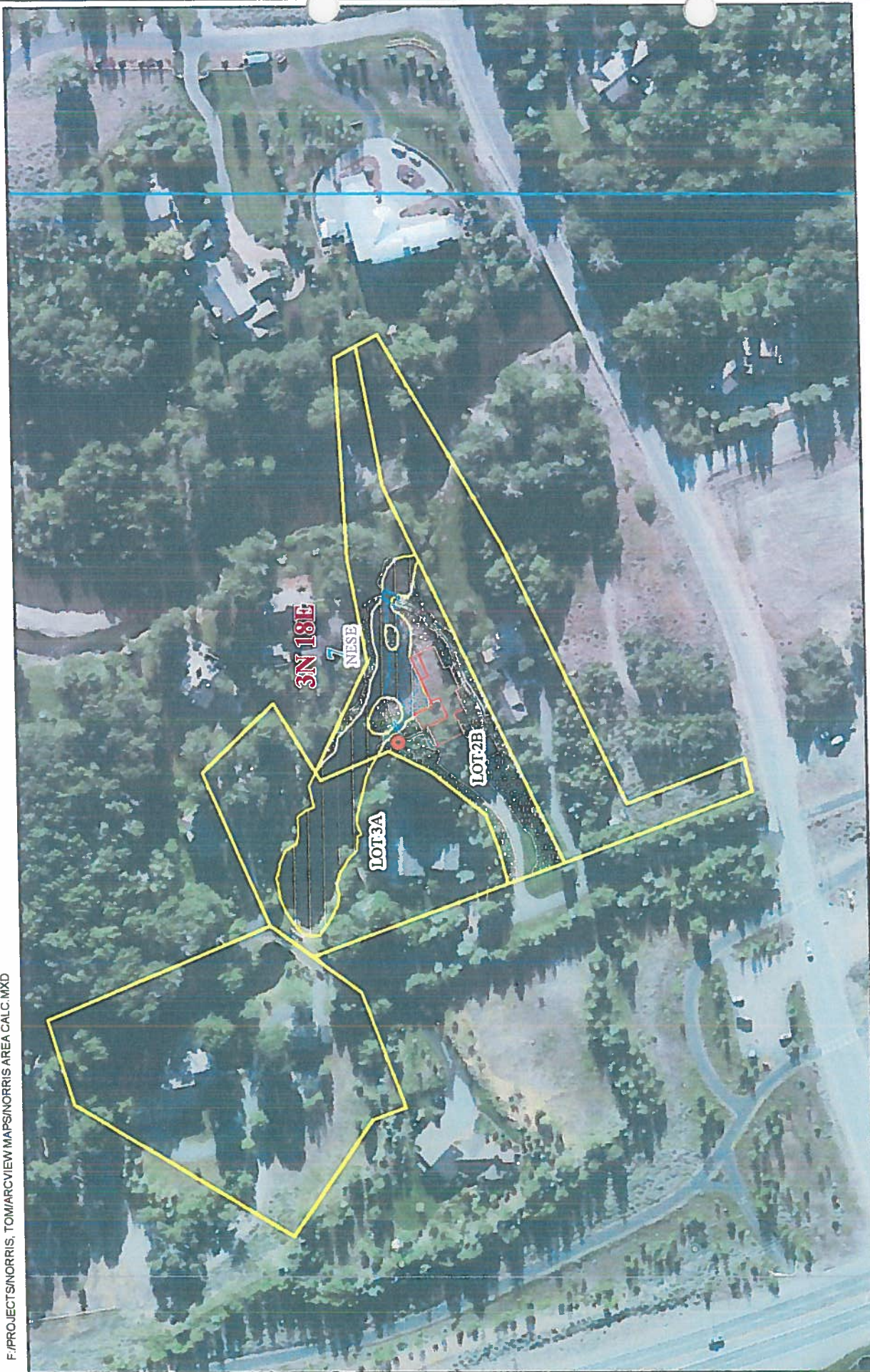
The citation for the evapotranspiration data used from this site should be: *Allen, Richard G. and Clarence W. Robison, 2012. Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho: Supplement updating the Time Series through December 2008, Research Technical Completion Report, Kimberly Research and Extension Center, University of Idaho, Moscow, ID.*

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

University of Idaho
A LEGACY OF LEADING

Copyright 2012, University of Idaho.

ETIdaho web site powered by Debian, Apache, Firebird DBMS, Python, with matplotlib, and kinterbasdb.



Legend

- Well
- Wishp
- Sections
- QQ lines
- Little_Makawao_Sub
- Proposed Irr. Post-Constructn 0.43 AC
- Proposed Residence
- Bridges
- PROPOSED POND LOTS 2B & 3A, 0.57 AC
- PROPOSED NEW POND LOT 2B, .09 AC

NORRIS, TOM PROPOSED IRRIGATED AREA ANALYSIS BING AERIAL PHOTO

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
ASSIGNMENT OF APPLICATION FOR PERMIT
To change the ownership of an application for permit

I, Walker Monroe, hereby assign to Tom R. Norris
Current applicant New applicant(s)
of, 2351 Clay St. Ste 510 San Francisco, CA 94115 (415) 722-6835
New owner's address including city, state and ZIP Phone

All my right, title, and interest in and to Application for Permit No(s): 37-8916
to appropriate the public waters of the State of Idaho.

OR (for partial assignments)

The following described portion of my right, title, and interest in and to Application for Permit No(s):

_____ to appropriate the public waters of the State of Idaho.

Describe in detail the portion of the application for permit assigned, listing the number of acres in each 40 acre subdivision, point of diversion location, and amount of the water in cubic feet per second.

Does the new applicant own the property at the:

Point of diversion? ☐ Yes ☒ No
Place of use? ☒ Yes ☐ No

If no, describe the arrangement enabling the new applicant to access the point of diversion and/or the place of use:
Existing Little Mackawao Channel diverted upstream and returns to Big Wood River. See maps.

Dated this 10 day of May, 20 15.

Signature of current applicant

Title (if applicable)

Signature of current applicant

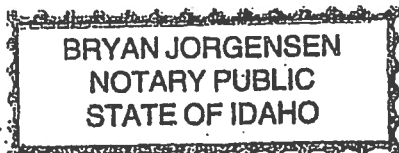
Title (if applicable)

State of Idaho)

County of Blaine)ss

On this 10 day of May, 20 15, personally appeared before me the signer(s) of the above instrument, who duly acknowledged to me that he/she/they executed the same.

SEAL



Notary Public

My commission expires: Aug 29th 2018



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 1341 Fillmore Street, Suite 200 • Twin Falls, Idaho 83301-3380

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

November 4, 2013

BLAINE COUNTY COMMISSIONERS
206 1ST AVE S, STE 300
HAILEY, ID 83333

IDAHO DEPT OF FISH & GAME
324 S 417 E, STE 1
JEROME, ID 83338

RE: Application For Permit No. 37-22847, and associated protested application 37-8916

Dear Protestants:

This letter is to notify you that the department has received an amended application for permit no. 37-8916 in the name of Tom Norris, which you had previously protested in November, 2000. It was originally filed under the name of Walker Monroe, however was later assigned to Tom Norris.

The department has also received a new application for permit no. 37-22847, in the name of Tom Norris. Application for permit no. 37-22847 proposes providing mitigation for amended application for permit no. 37-8916. A legal notice for application 37-22847 has been prepared and is scheduled for publication in the Idaho Mountain Express on 11/6/2013 and 11/13/2013. Protests to this application may be submitted for a period ending ten (10) days after the second publication (November 25, 2013). *Please note, application no. 37-8916 is not being re-advertised, therefore you do not need to resubmit a protest for this application; as it remains on file with the department.*

All protests must be resolved before the application(s) 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.

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

Sincerely,

Denise Maline
Administrative Assistant

Maline, Denise

From: Maline, Denise
Sent: Friday, November 01, 2013 12:40 PM
To: 'Kevin Lakey'
Subject: Comment Letter for 37-22847 & 37-8916
Attachments: Comment Letter to Kevin Lakey (37-22847).pdf; Amended App for Permit 37-8916.pdf; App for Permit 37-22847.pdf

Dear Kevin,

Attached please find a cover letter, recommendation forms, and a copy of Application for Permit 37-22847 & 37-8916. Please review the attached information and provide any necessary comments within 21 days

Please note, 37-8916 is a protested application, however it is associated with 37-22847. There is a short explanation in the attached cover letter. As always, feel free to contact our office if you have any questions.

Thank you in advance,

Denise Maline
Administrative Assistant, Southern Region
Idaho Dept of Water Resources
1341 Fillmore St, Ste 200
Twin Falls, ID 83301
(208) 736-3033
denise.maline@idwr.idaho.gov



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 1341 Fillmore Street, Suite 200 • Twin Falls, Idaho 83301-3380

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

November 1, 2013

KEVIN LAKEY
WATER DISTRICT #37
107 W 1ST
SHOSHONE, ID 83352

Via e-mail

RE: Application for Permit No. 37-22847 and associated application 37-8916

Dear Mr. Lakey:

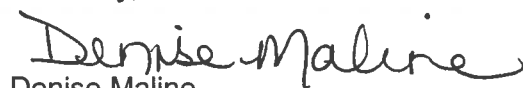
A copy of the above referenced application is enclosed. Please review the applications, then complete the enclosed recommendation forms and return it to this office within 21 days of the date of this letter.

Please note, this application is associated with protested application no. 37-8916. It was originally filed in the name of Walker Monroe, and was later assigned to Tom Norris in August, 2013. A copy of 37-8916 is also attached for your reference. Feel free to comment as necessary on both applications.

If this application(s) is approved, IDWR may 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's regional offices 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 21 days from the date of this letter, IDWR will presume that you do not oppose approval of the application and that you have no comments for IDWR to consider.

Sincerely,


Denise Maline
Administrative Assistant

Enclosure(s)



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 1341 Fillmore Street, Suite 200 • Twin Falls, Idaho 83301-3380

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

October 31, 2013

TOM R NORRIS
2351 CLAY ST, STE 510
SAN FRANCISCO, CA 94115

RE: Application For Permit No. 37-22847

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 MOUNTAIN EXPRESS** on **11/6/2013** and **11/13/2013**. Protests to this application may be submitted for a period ending ten (10) days after the second publication (**November 25, 2013**).

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,

Denise Maline
Administrative Assistant

cc:

MOORE SMITH BUXTON & TURCKE CHTD
C/O BRUCE M SMITH
950 W BANNOCK, STE 520
BOISE, ID 83702

BROCKWAY ENGINEERING PLLC
C/O CHARLES E BROCKWAY
2016 WASHINGTON ST N, STE 4
TWIN FALLS, ID 83301

Maline, Denise

From: Maline, Denise
Sent: Thursday, October 31, 2013 1:06 PM
To: Idaho Mountain Express
Subject: LEGAL NOTICE
Attachments: Idaho Mountain Express Cover Letter.docx; Idaho Mountain Express Ad.docx

Attached please find (1) legal notice being submitted for publication on November 6th & 13th, 2013. Please contact me if you have any questions, or if you are not able to run the ad on the dates requested.

Thank you in advance,

Denise Maline
Administrative Assistant
Idaho Dept of Water Resources, Southern Region
1341 Fillmore St, Suite 200
Twin Falls, ID 83301
(208) 736-3033
denise.maline@idwr.idaho.gov

October 31, 2013

LEGAL NOTICE DEPARTMENT
IDAHO MOUNTAIN EXPRESS
PO BOX 1013
KETCHUM, ID 83340

RE: Application For Permit No.(s): 37-22779 & 37-22847

RE: Transfer No. 78865
Water Right No(s): 37-21121, 37-21122

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 November 25, 2013. Your cooperation is appreciated.

Sincerely,

Denise Maline
Administrative Assistant

Enclosure(s)

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

37-22779

ROBERT G STEVENS

CAROL F STEVENS

PO BOX 308

KETCHUM, ID 83340

Point of Diversion NWN S23 T05N R17E BLAINE County Source GROUND WATER Tributary

Use: IRRIGATION 04/15 to 10/31 0.26 CFS

Total Diversion: 0.26 CFS

Date Filed: 8/29/2012

Place Of Use: IRRIGATION

T05N R17E S14 NESW

Total Acres: 12.9

It is proposed that the 0.41 CFS allowed diversion from Eagle Creek under water right 37-863E (Eagle Creek Irrigation Co.), with a priority of 10-6-1902, be dedicated to mitigation for the proposed appropriation. This 0.41 CFS portion of right 37-863E (0.08 CFS) will continue to be diverted into the high ditch of the Eagle Creek Irrigation Co. for conveyance loss to users in that delivery system and the remaining portion (0.33 CFS) will not be diverted at any authorized Eagle Creek Irrigation Co. point of diversion (POD) under right 37-863E, but left in the natural channel to mitigate for the aquifer depletion attributable to this application. Note that right 37-863E historically irrigated the same ground as this application proposes to irrigate. Also, rights 37-21427 (0.21 CFS) & 37-21428 (0.01 CFS), with a priority of 3-14-1980 and diverted from groundwater, also irrigates the same 12.9 acres and from the same well proposed under this application. Please note that the proposed appropriation occurs on property owned by the applicant within the following legal description: HES no. 129.

37-22847

TOM R NORRIS

2351 CLAY ST, STE 510

SAN FRANCISCO, CA 94115

Point of Diversion NESE S7 T03N R18E BLAINE County Source GROUND WATER Tributary

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

Total Diversion: 0.04 CFS

Date Filed: 10/21/2013

Place Of Use: DOMESTIC

T03N R18E S7 NESE

Application seeks to appropriate 0.04 cfs of ground water from an existing domestic well for domestic use on Lot 2B of Little Makawao Subdivision located northeast of the Highway 75 & East Fork Road intersection approximately 5.2 miles south and 0.8 miles east of the center of Ketchum. The domestic use (limited to 13,000 gpd) includes water for in-house use for 1 home, evaporative losses associated with the expansion of an existing pond on the property, and irrigation of no more than 0.44 acre.

NOTICE OF PROPOSED CHANGE OF WATER RIGHT TRANSFER NO. 78865

CHRISTOPHER MANNINO, 5206 VALLEY VIEW RD, RANCHO PALOS VERDES, CA 90275; has filed Application No. 78865 for changes to the following water rights within BLAINE County(s): Right No(s). 37-21121, 37-21122. The purpose of the transfer is to change a portion of the above rights as follows: Application for transfer proposes to change the point of diversion (POD) for two Big Wood River irrigation rights, currently authorized to divert 3.6 CFS at the Bannon #49 ditch headgate, located approximately 2.0 mi. S & 0.2 mi. W of Bellevue. Application proposes to divert this water from the Glendale #50 ditch headgate, located approximately 0.2 downstream of the Bannon #49 ditch headgate.

Permits will be subject to all prior water rights. For additional information concerning the property location, contact Southern Region office at (208) 736-3033; or for a full description of the rights &/or proposed transfer, please see www.idwr.idaho.gov/apps/ExtSearch/WRFiling.asp. Protests may be submitted based on the criteria of Sec 42-222 and 42-203A, Idaho Code. Any protest against the approval of this application(s) must be filed with the Director, Dept. of Water Resources, Southern Region, 1341 Fillmore St, Suite 200, Twin Falls, ID 83301 together with a protest fee of \$25.00 for each application on or before November 25, 2013. The protestant must also send a copy of the protest to the applicant.

GARY SPACKMAN, Director

Published on November 6th & 13th, 2013



State of Idaho

DEPARTMENT OF WATER RESOURCES

Southern Region, 1341 Fillmore Street, Suite 200 • Twin Falls, Idaho 83301-3380

Phone: (208) 736-3033 • Fax: (208) 736-3037 • Web Site: www.idwr.idaho.gov

C. L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

October 22, 2013

Kat M Donovan
Moore Smith Buxton & Turcke, Chartered
950 W Bannock Street
Suite 520
Boise, ID 83702

Dear Ms. Donovan:

You recently filed an Amended Application for Permit No. 37-8916 and an additional Application for Permit, both in the name of Tom R. Norris, with our office. The applications are associated with a pond expansion and associated domestic well filing for property located within the Little Makawao Subdivision north of Hailey. Along with the applications, a \$100.00 check (Moore Smith Buxton & Turcke, Chtd. Check # 18211) was included. I assume that this was intended to cover the filing fee associated with the Application for Permit for the domestic well. However, on August 14, 2013, Brockway Engineering filed an Application for Permit for a domestic well in the name of Tom R. Norris and paid a \$100.00 filing fee (Brockway Engineering PLLC check # 11565 per IDWR receipt # S033469). It appears that the Application for Permit for the domestic well that you filed is an attempt to amend the August 14, 2013 Application for Permit filed by Brockway Engineering. **IDWR will consider the Application for Permit for the domestic well that you filed an amendment of the August 14, 2013 Application for Permit filed by Brockway Engineering.** For this reason, I have enclosed the \$100.00 check (Moore Smith Buxton & Turcke, Chtd. Check # 18211) that you included with the application.

If you have any questions, feel free to contact me at your convenience.

Sincerely,

Corey Skinner, PE
Water Resource Engineer

Enclosure

cc: CE Brockway -- Brockway Engineering (w/o enclosure)
Tom R Norris (w/o enclosure)

MOORE SMITH BUXTON & TURCKE, CHARTERED

ATTORNEYS AND COUNSELORS AT LAW
950 W. BANNOCK STREET, SUITE 520; BOISE, ID 83702
TELEPHONE: (208) 331-1800 FAX: (208) 331-1202 www.msbtlaw.com

STEPHANIE J. BONNEY~
SUSAN E. BUXTON*
PAUL J. FITZER
JILL S. HOLINKA
CHERESE D. McLAIN
BRUCE M. SMITH
PAUL A. TURCKE†

JOHN J. MCFADDEN *Of Counsel*
MICHAEL C. MOORE† *Of Counsel*

* Also admitted in Oregon
† Also admitted in South Dakota
≈ Also admitted in Utah
‡ Also admitted in Washington

October 17, 2013

RECEIVED

OCT 21 2013

DEPT. OF WATER RESOURCES
SOUTHERN REGION

Idaho Department of Water Resources
Southern Region
1341 Fillmore Street, Suite 200
Twin Falls, ID 83301

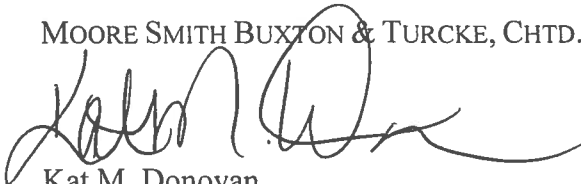
Re: Amended Application for Permit No. 37-08916
Application for Permit

Dear Sir or Madam:

Enclosed please find an original and copy of an Amended Application for Permit No. 37-08916 and Application for Permit and a copy of a Limited Power of Attorney in regard to our client Tom R. Norris, MD. Also enclosed, please find a check in the amount of \$100.00 for the filing of the Application for Permit. If a new fee is needed for the Amended Application, please notify our office and a check will be sent immediately. Please return the filed copies to our office in the self addressed stamped envelope enclosed. Thank you for your assistance in this regard.

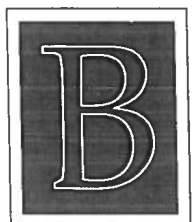
Sincerely,

MOORE SMITH BUXTON & TURCKE, CHTD.



Kat M. Donovan
Paralegal to Bruce M. Smith

:kd
Encl.



BROCKWAY
ENGINEERING
P.L.L.C.

Hydraulics

Hydrology

Water Resources

RECEIVED

AUG 14 2013

DEPT. OF WATER RESOURCES
SOUTHERN REGION

August 13, 2013

Allen Merritt
Idaho Department of Water Resources
1341 Fillmore Street, Suite 200
Twin Falls, ID 83301-3380

Re: Tom Norris Water Right Applications

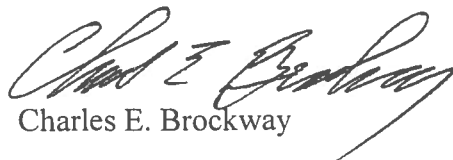
Dear Mr. Merritt:

Enclosed is an amendment application for a permit for aesthetic storage. Supporting information for the permit include consumptive use data, aerial photograph showing Lot 2B of the Little Makawao Subdivision and the assignment of the application for permit by Walker Monroe.

Also enclosed is the application for permit for the domestic well including mitigation water for the expanded pond evaporation. This application also includes the same supporting documents as the application for storage permit.

Please copy our office on all correspondence regarding this application.

Sincerely,



Charles E. Brockway

CHARLES E.
BROCKWAY,
PH.D., P.E.

CHARLES G.
BROCKWAY,
PH.D., P.E.

Cc: Cherese McLain
Enc: Aerial Maps, Narrative, Consumptive Use Data, Assignment of Permit
Brockway Engineering Check # 11565 \$100 for Domestic Application

2016 NORTH
WASHINGTON
STREET • SUITE 4

TWIN FALLS,
IDAHO 83301

208•736•8543

FAX: 736•8506