

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 87-10063

Exam Date: 10/3/2012

1. Current Owner: PATRICIA GREENE and TIMOTHY GREENE
1026 WALLEN RD
MOSCOW ID 83843
(208)883-5324
Cell: (208)651-4512

Email: tgreene@moscow.com

2. Accompanied by: not accompanied by anyone; written permission from owner to conduct field exam.

3. **SOURCE**

UNNAMED STREAM

TRIBUTARY

PALOUSE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

UNNAMED STREAM SE1/4SW1/4 Sec. 1, Twp 39N, Rge 05W, B.M. LATAH County

Method of Determination: Garmin map 76S, Arc Map 2009 imagery

2.

PLACE OF USE: AESTHETIC STORAGE, FIRE PROTECTIONS STORAGE, RECREATION STORAGE, and
WILDLIFE STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
39N	05W	1												X					

Method of Determination: Garmin map 76S, Arc Map 2009 imagery

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
☒ Aerial Photo Attached (required for irrigation of 10+ acres).
☒ Photo of Diversion and System Attached

4.

Well or Diversion

ID No.* **Motor Make** **Hp** **Motor Serial No.** **Pump Make**

Pump Serial No. or Discharge Size

Unnamed stream (gravity flow) flowing only when there is run-off from rainfall or snowmelt

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1. **Measurements:** There was no incoming flow from the unnamed stream, or outgoing discharge from the overflow/spillway. For this reason, no physical measurement was collected. At the 14 ft wide concrete overflow/spillway, there was a 32 inch X 1 inch depression knocked out of the concrete, to direct the flow into a dirt ditch that then runs west, and then southwest.

E. VOLUME CALCULATIONS

1. Volume Calculations for Storage (Aesthetic, Fire Protection, Recreation, and Wildlife Storage are all the same pond):

Arc Map calculated the following:

Island = 0.0 acres

Entire Pond = 0.7 acres

Average Depth = 10 ft.

0.7 acres X 10 ft deep = 7.0 af

ET = 2.8 (see attached calculation sheet)

7.0 af + 2.8 af ET = 9.8 af

RECOMMEND: 4.0 af as permitted

F. NARRATIVE/REMARKS/COMMENTS

The source is an unnamed stream, located northeast of the pond, with the POD being the concrete spillway/overflow. The flow from the unnamed stream is run-off from rain and snow melt. The owner stated that there might be a spring in the pond itself that helps maintain the level of the pond, but he has never verified this. No other supplemental water is used. At the time of the field examination, there was no flow discharging to the pond or any overflow discharging from the pond. The outlet/overflow is located on the northwest side of the pond. The overflow is made up of concrete that is 14 ft across and 16 inches high. At the center of the overflow is an area 32 inches across, that is recessed to allow flow to be discharged in a uniform manner to a small dirt ditch running east to west and then to the south. The pond is not lined, and it contains a small island. The western end of the pond is approximately 20 ft deep; 6 ft deep on the east side, and an average depth of 10 ft. The pond is used for fire protection storage in the event there were a fire. A Honda WX15, model GXH50, 4 stroke pump, 1 1/2 inch discharge, maximum capacity of 63.4 gpm is kept in the shop. Aesthetic Storage (they have walking paths surrounding the area, and it is just down from where their house is located). Recreation Storage for fishing walking around the pond, swimming and they have picnics at that location. Wildlife Storage is for the ducks, coyotes, bobcat, Tundra Swans, moose, deer, geese otters, numerous birds, trout and frogs. The Pond was constructed in 2001, with some funds from Idaho Fish and Game Dept. Sterilized grass carp were planted in the pond to keep the pond clean. The terrain surrounding the pond is steep, aiding to additional run-off. The owner said that fish have done well in this pond.

Have conditions of permit approval been met? ☒ Yes ☐ No

G. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
AESTHETIC STORAGE	01/01 to 12/31		4.00 AF
FIRE PROTECTION STORAGE	01/01 to 12/31		4.00 AF
RECREATION STORAGE	01/01 to 12/31		4.00 AF
WILDLIFE STORAGE	01/01 to 12/31		4.00 AF
<u>Totals:</u>			4.00 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

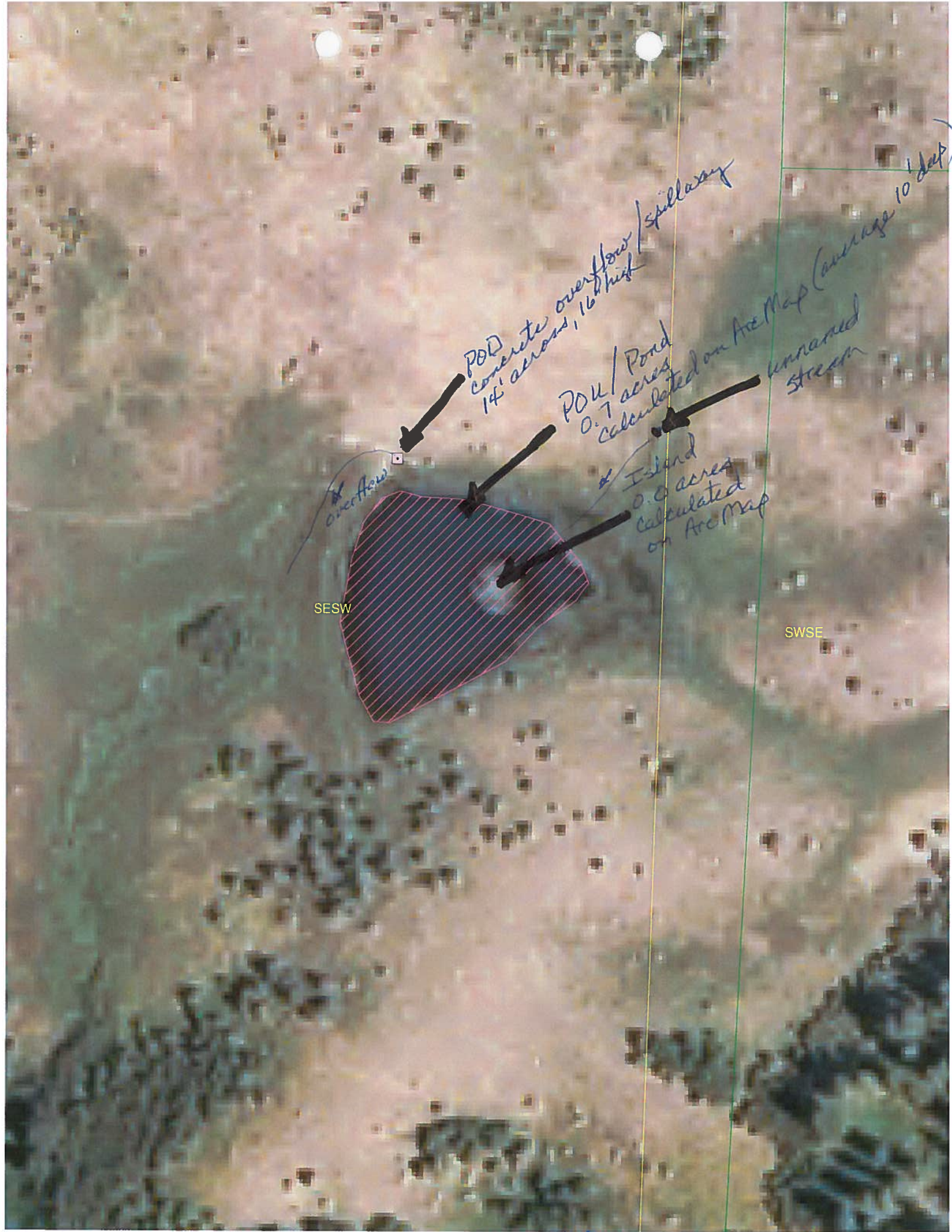
H. AUTHENTICATION

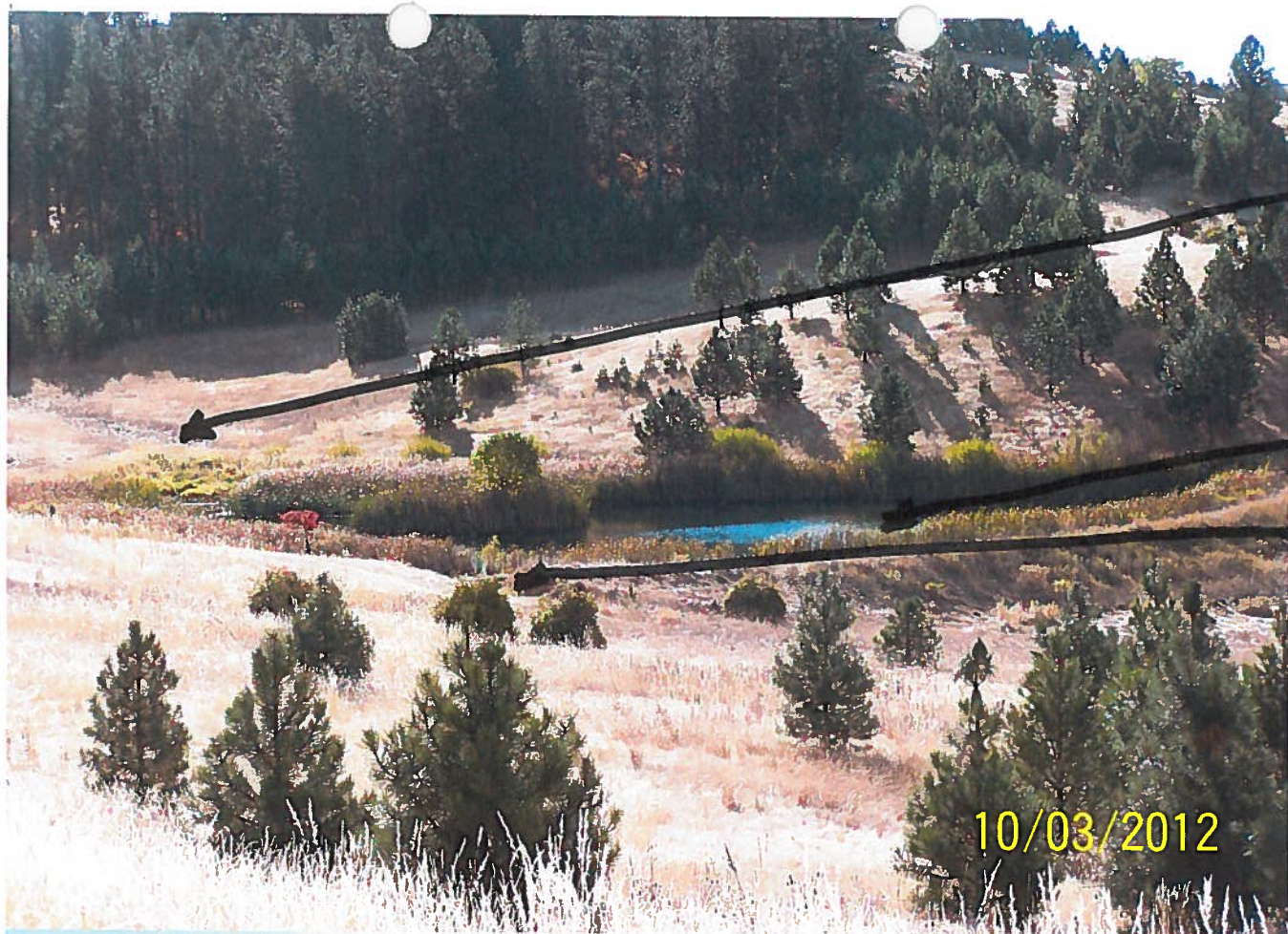
Field Examiner's Name

Sandy Hermerway

Date

10/29/2012





POD
unname
stream

POU

concret
outlet

10/03/2012



concret
outlet

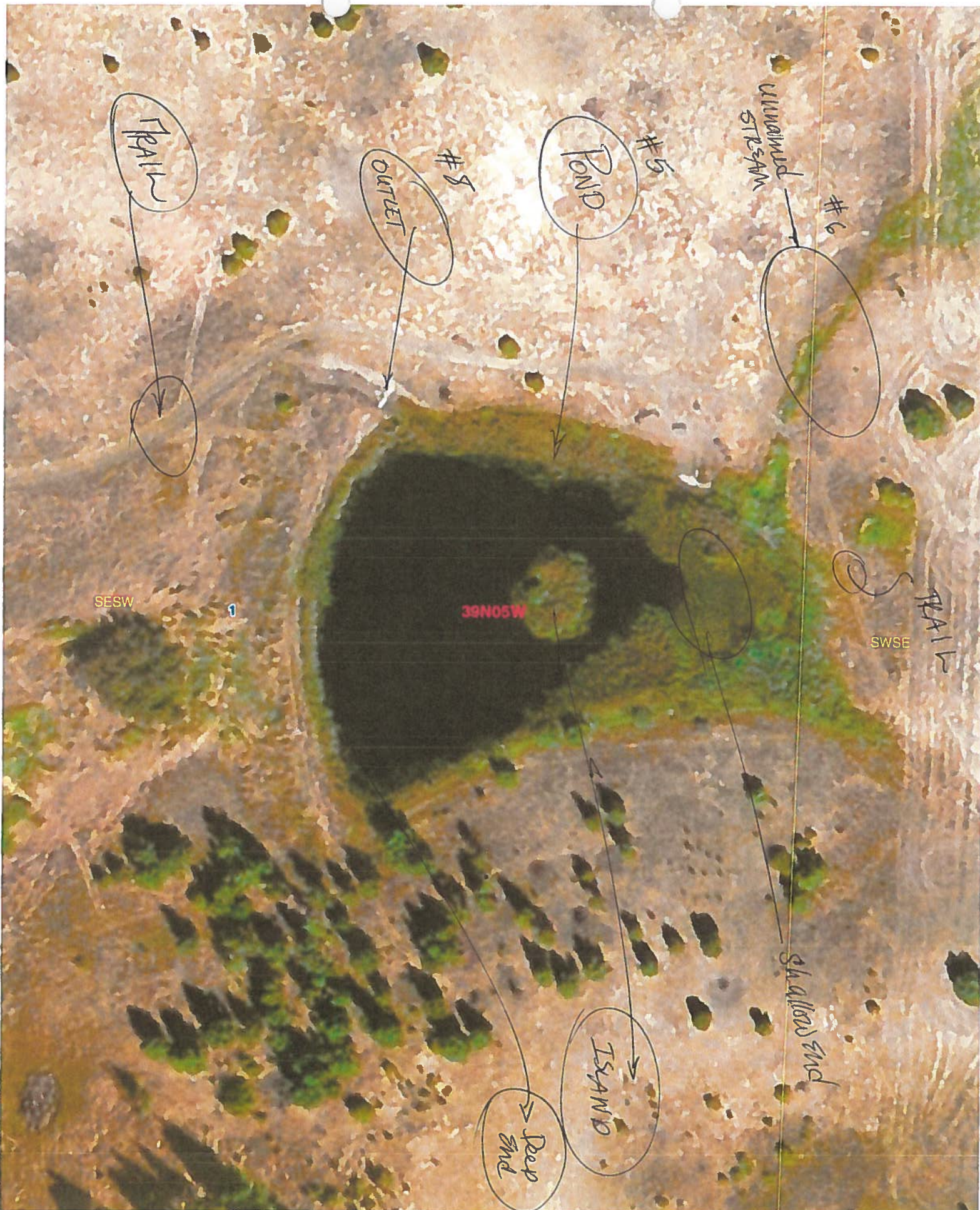
14'
across,
16" high
over-
flow,
with a
32" x 1
groove
out
overflow

(no flow
at time
of field
exam)

10/03/2012

87-10063 Greene

S. Hemerly



87-10063 Greene

Received 9/24/2011



87-10063 Greene

Received 9/24/2012 SW

Precipitation Loss Calculation

Date: October 25, 2012
Prepared by: Sandy Hemenway
Water Right No: 87-10063

P = Precipitation
ET= Evapotranspiration
 P_d = Precipitation deficit
 P_d = P- ET

P_d

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

P_d = convert to AFA: (mm/yr) / (convert to feet) x # acres =
1240 304.8 0.7
(From ET Idaho)

P_d = 2.8 AFA

* Use the Precipitation Deficit for 'P' value

ET_{Idaho} 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.

Moscow - Univ of Idaho (NWS -- 106152)

Statistics based on thirty year normal spans 1978 to 2010 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.

Alfalfa Reference Evapotranspiration ETr															
	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	0.38	0.96	2.22	3.77	5.00	6.10	7.40	6.75	4.50	2.43	0.76	0.31	0	1240	1240
15-Day Moving Average ^d	0.37	0.92	2.24	3.77	5.06	6.09	7.46	6.73	4.42	2.41	0.73	0.31			
7-Day Moving Average ^e	0.38	0.94	2.22	3.77	5.04	6.10	7.45	6.76	4.46	2.43	0.74	0.31			
3-Day Moving Average ^f	0.38	0.95	2.22	3.77	5.01	6.10	7.41	6.76	4.50	2.43	0.75	0.31			
Standard Deviation ^k	mm/day												mm		
Monthly ^c	0.09	0.21	0.53	0.39	0.71	0.53	1.00	0.66	0.56	0.44	0.15	0.09	0	66	66
15-Day Moving Average ^d	0.11	0.24	0.48	0.56	0.71	0.69	0.85	0.73	0.73	0.49	0.22	0.10			
7-Day Moving Average ^e	0.15	0.34	0.61	0.81	0.99	1.02	1.01	0.97	0.92	0.70	0.30	0.15			
3-Day Moving Average ^f	0.22	0.43	0.77	1.06	1.28	1.32	1.26	1.21	1.14	0.85	0.37	0.22			
20% Exceedance ^l	mm/day												mm		
Monthly ^c	0.43	1.14	2.58	4.07	5.41	6.61	7.95	7.18	4.92	2.64	0.91	0.36	0	1304	1304
15-Day Moving Average ^d	0.55	1.35	3.00	4.74	6.41	7.30	8.78	7.79	5.64	3.29	1.20	0.46			
7-Day Moving Average ^e	0.69	1.71	3.64	5.44	7.16	7.88	9.12	8.41	6.25	3.87	1.52	0.63			
3-Day Moving Average ^f	0.98	1.90	4.24	6.13	7.87	8.74	9.62	8.99	6.77	4.42	1.82	0.92			
80% Exceedance ^m	mm/day												mm		

Monthly ^c	0.33	0.77	1.94	3.42	4.45	5.53	6.74	6.23	3.87	2.14	0.59	0.26	0	1179	1179
15-Day Moving Average ^d	0.22	0.60	1.55	2.91	3.86	4.91	6.06	5.41	3.31	1.51	0.43	0.16			
7-Day Moving Average ^e	0.10	0.44	1.25	2.46	3.36	4.12	5.33	4.86	2.68	1.29	0.33	0.01			
3-Day Moving Average ^f	0.01	0.26	0.99	1.95	2.63	3.14	4.39	3.61	2.25	1.07	0.20	0.13			
Ave Highest ET_r	mm/day												--		
15-Day Moving Average ^g	0.49	1.15	2.66	4.34	5.70	6.73	8.02	7.38	5.02	2.97	0.99	0.40			
7-Day Moving Average ^h	0.62	1.39	3.07	4.98	6.42	7.41	8.51	8.00	5.66	3.46	1.19	0.54			
3-Day Moving Average ⁱ	0.84	1.63	3.69	5.73	7.15	8.13	9.10	8.63	6.32	3.86	1.46	0.76			
Ave Lowest ET_r	mm/day												--		
15-Day Moving Average ^g	0.27	0.76	1.85	3.20	4.42	5.44	6.83	6.07	3.88	1.92	0.54	0.22			
7-Day Moving Average ^h	0.17	0.57	1.50	2.73	3.73	4.66	6.25	5.47	3.38	1.57	0.43	0.11			
3-Day Moving Average ⁱ	0.03	0.42	1.20	2.24	2.96	3.80	5.31	4.58	2.74	1.26	0.29	0.04			
Special normal distribution parameters for monthly, seasonal, and annual intervals															
Skew ^m	0.03	1.31	0.18	0.36	0.09	0.12	0.11	-0.16	0.32	0.13	0.06	0.12	0.00	-0.40	-0.40
Kurtosis ^o	0.73	4.79	0.80	3.37	0.69	2.24	0.78	0.68	2.45	0.71	2.44	0.82	0.00	2.60	2.60

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.

^b Nongrowing Season: This is usually the time from a killing frost or harvest in the fall to the of green up in the spring. It is not applicable for entries without a growing season.

^c Mean of the average daily value for month

^d Mean of the fourteen 15-day period averages contained in the month

^e Mean of the twenty three 7-day period averages contained in the month

^f Mean of the twenty seven 3-day period averages contained in the month

^g Mean of the highest/lowest 15-day period average in month

^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

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To: SANDY HEMENWAY - IDWR

9-24-12

Fax: 208-287-6700

From: J Greene (1026 Wallen Rd - Moscow)

TECHNICAL & CONSUMER INFORMATION

Specifications

Dimensions and weight

Length	12.8 in (325 mm)
Width	10.8 in (275 mm)
Height	With rubber feet: 14.8 in (375 mm)
Dry weight	22 lb (10 kg)

Engine design and performance

Model	GXH50
Engine type	4-stroke, overhead valve, single cylinder
Displacement [bore x stroke]	3.0 cu-in (49 cc) [1.65 x 1.42 in (41.8 x 36.0 mm)]
Maximum output	2.5 bhp (1.8 kW, 2.5 PS) at 7,000 rpm
Maximum torque	2.2 ft-lb (3.04 N-m, 0.31 kg-m) at 4,500 rpm
Cooling system	Forced air
Ignition system	Transistorized magneto
PTO shaft rotation	Counterclockwise

Tuneup

Spark plug gap	0.024-0.028 in (0.60-0.70 mm)	See page 36.
Idle speed	2,500 ± 200 rpm	
Valve clearance (cold)	Intake: 0.08 ± 0.02 mm Exhaust: 0.11 ± 0.02 mm	See shop manual.
Other specifications	No other adjustments needed.	

TECHNICAL & CONSUMER INFORMATION

Pump

Suction port diameter	1.5 in (40 mm)
Discharge port diameter	1.5 in (40 mm)
Total head (maximum)	131 ft (40 m)
Suction head (maximum)	26 ft (8 m)
Discharge capacity (maximum)	63.4 US gal (240 l) per minute
Self-priming time	120 seconds at 16.4 ft (5 m)

Pump performance curve

As total head increases, discharge capacity decreases. The following graph shows the relationship between pump discharge capacity and total head, while pumping clear water at sea level.

Pump use for fire protection

Hemenway, Sandy

From: Timothy Greene [tgreene@moscow.com]
Sent: Thursday, September 20, 2012 9:02 PM
To: Hemenway, Sandy
Subject: Pond at 1026 Wallen Road, Moscow, ID
Attachments: MEMORANDUM FOR SANDY HEMENWAY.docx; ATT97950.txt

Sandy:

Here is the Memorandum with answers to your questions. I would be happy to supplement the Memorandum in any way that is helpful.

Regards, Tim Greene

1026 Wallen Road
Moscow, Idaho 83843
Phone: 208 883 5324
Cell: 208 651 4512

MEMORANDUM FOR SANDY HEMENWAY

Hello Sandy:

As I mentioned earlier, we will be traveling when you are scheduled to do your site visit in October. We are scheduled to return to Moscow late on October 8th. I can be reached on my cell phone at 208 651 4512 if you have questions. We will be in Moscow until October 1.

I have attempted to answer your questions in the order you presented them. I can supplement them as you believe necessary.

5. I have marked the map which you have sent to me and will return it to you by mail to your Boise address.

6. Same as #5

7. There is a shallow end to the pond and a deep end where the dam is located. This was done with the cooperation of Idaho Fish and Game which contributed to the cost of the pond on the condition that I include a shallow end and an island. I believe the deepest part of the pond is close to 20 feet and deep enough to accommodate trout which have been stocked. The shallow end is ankle deep and the middle is 10 feet or more.

8. There is a cement overflow on the pond and you will see it when you are on the site. I have cleared some of the cattails near the overflow point on the West end of the pond. I will mark the map as well.

9. The pond is not lined.

10. This is an interesting feature of the pond. There is abundant wildlife. This morning, for example, I saw near 40 ducks circle and land on the pond. In the course of a year we will see the following: moose, deer, geese, river otters, game birds, a variety of song birds and black birds, hawks, owls, swallows, coyotes, there are bobcats on the property but I have not actually seen them at the pond. A couple of years ago we had Tundra Swans visit this particular pond. The pond is stocked with rainbow trout. Frogs are plentiful. From time to time I have seen other small mammals but I am not sure what they are.

11. There are several recreational uses for the pond including fishing, relaxing and enjoying the activity at the pond site, bird watching, dog walking, visits to pond by the neighbors, walking to the pond on the path provided, entertaining guests with a visit to the pond, planting trees, some brave college age visitors have been in the pond, ATV path to drive around the pond to enjoy the sights. These are year around activities and it is always pleasant to view the pond from the road...a turn around has been provided to park cars or you can actually drive a car or a pickup to the pond. We have had picnics at both ponds and tables have been provided.

12. Both ponds are available for use as fire protection. We have a Honda pump and a red fire hose as well as regular hose which can be used if needed. The pump is stored in the yellow pole building. I will send a picture. I don't have all the technical specifications but will try and get them if that helps. We could drive a truck to the pond and use the pump in an emergency. We have not had a fire but have used the pump to water surrounding area. The pond on the other side of the road has an electrical pump in the water marked by a blue float that will take water to the roof of our house and to the sprinklers there.

13. I will send a picture.

14. The unnamed stream is associated with the winter snow melt and run off and lasts for as long as there is snow on the ground. I don't notice any run off with heavy rain in the fall or spring. As you will see, there is a considerable drop to the pond site and the run off enters the pond from other steep areas. I have marked the unnamed intermittent stream on the map.

16. I haven't looked at the permit recently, but the answer is no. The pond was created as an attractive addition to the property with attendant benefits listed here.

17. The assertion has been that there is a spring in the pond. I am not sure that is the case given the drop in the pond level in a hot summer like the current one. Anyway, there could be a spring but I can't verify that.

18. The pond was constructed in 2001 and some funds were contributed by the Idaho Fish and Game Department. Other local government officials have visited the pond. Fish and Game inspected the pond when I obtained a permit for sterilized grass carp to help keep the pond clean. There is a considerable amount of water released in the event of a rapid snow melt of accumulated snow and while it takes a while to fill the pond, once it is filled and the melt continues, there is a steady outflow of water from the pond and you will see the path which the water follows to the South. The terrain surrounding the pond is steep and that facilitates water flow to the pond. The pond water is clean and generally cold. Fish have done well in the pond.

19. Enjoy your visit. I would be happy to answer any questions you may have.

Regards, Tim Greene

Cell phone: 208 651 4512

Hemenway, Sandy

Subject: FW: 87-10063 Greene, licensing review and request to schedule a field examination on 10/3/2012

From: Timothy Greene [<mailto:tgreene@moscow.com>]

Sent: Wednesday, August 29, 2012 10:31 AM

To: Hemenway, Sandy

Subject: Re: 87-10063 Greene, licensing review and request to schedule a field examination on 10/3/2012

Hello Sandy:

Thanks for the note and followup....I will respond to all the questions next week. I did not see a map so maybe you can resend it to me. We know we will be out of town on October 3 but you certainly have permission to walk the property and explore the pond area. We will be on the East Coast for several days but you can reach me on

my cell phone with any questions at 208 651 4512 when you are here. Please use the Moscow address for the water right statement. Directions from Troy are easy....Follow the Troy highway to Mill road which is the road at the end of the Elks Golf Course in Moscow. Take a right and continue to Robinson Park Road. Take a right and follow Robinson Park Road for about 3/4 mile until you come to a fork in the road...stay right on Wallen Road and continue to the first driveway on the left where you will see several mailboxes including 1026. This is a private drive and you will continue up to the top of the driveway. Our house will be on the left but you will continue to the right by our yellow shed to a turnaround and the pond you will be looking at is on the right. You can drive to the pond if you like or park in the turnaround. The pond on the right has an island in the middle and a tree. You will see a second pond on the left but I am assuming it is the one on the right that you are interested in. Finally, I am not sure what I need to cover in responding to question 18.

Thanks. Tim Greene

Hemenway, Sandy

From: Timothy Greene [tgreene@moscow.com]
Sent: Thursday, September 20, 2012 8:55 PM
To: Hemenway, Sandy
Subject: HONDA PUMP OWNED BY TIMOTHY GREENE FOR POND ON WALLEN ROAD, MOSCOW

Sandy:

I will be sending you a Memorandum in a separate e mail. Maps will be mailed back to you. Below are pictures of the Honda pump available for fire protection.

Regards, Tim Greene



IMG_0188



IMG_0190

Hemenway, Sandy

Subject: FW: 87-10063 Greene, licensing review and request to schedule a field examination on 10/3/2012

From: Hemenway, Sandy

Sent: Tuesday, August 28, 2012 1:30 PM

To: tgreene@moscow.com

Cc: Hemenway, Sandy

Subject: 87-10063 Greene, licensing review and request to schedule a field examination on 10/3/2012

Tim,

I am currently reviewing the water right file for 87-10063 for the licensing process (the final step in this whole process). I would like to conduct a field examination on 10/3/2012, and at this time do not have a confirmed time until after I review all the files in that area. If you are available that day, that would be great, but in the event you are not available or have someone who knows the system, I have the following questions:

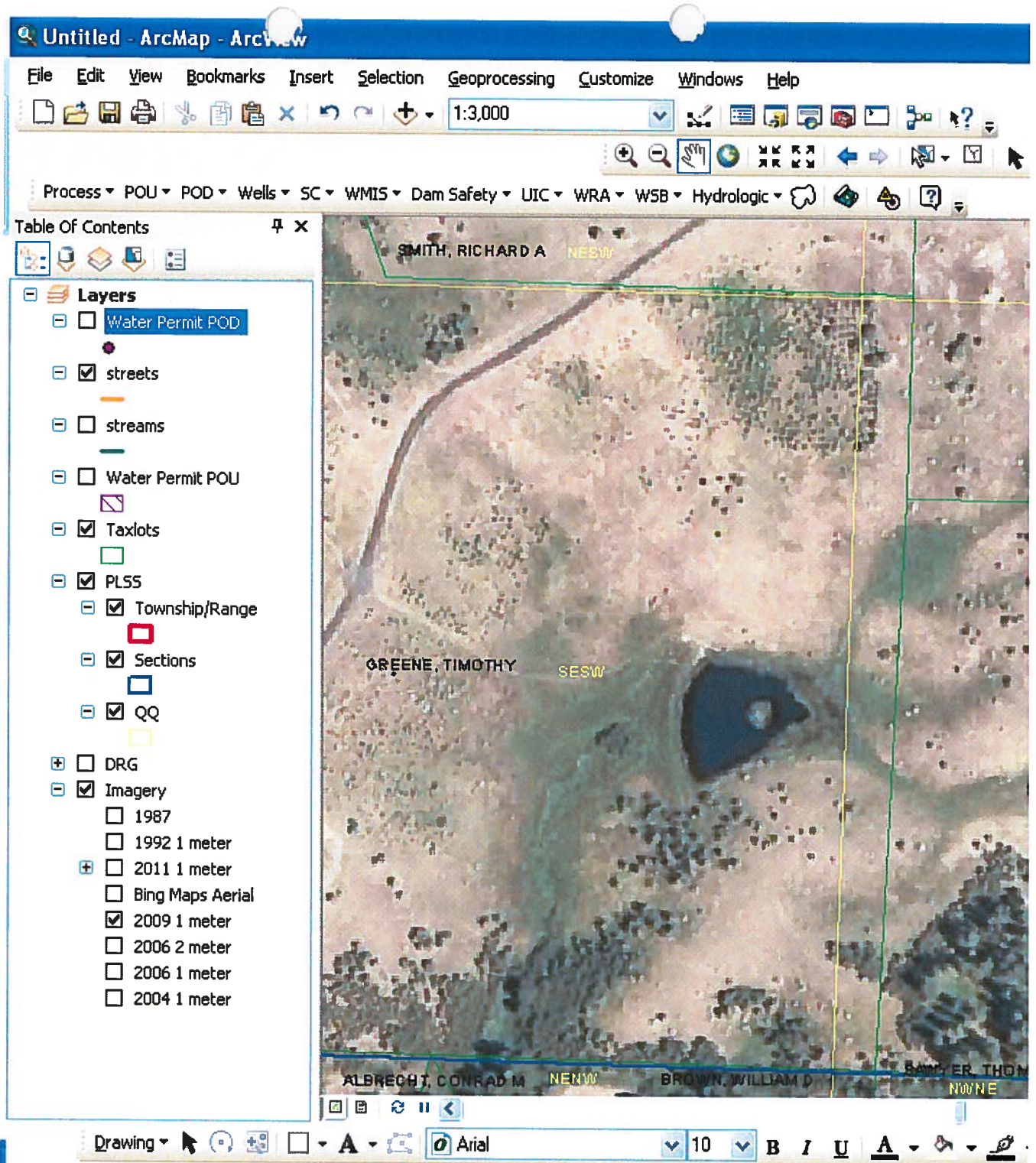
- (1) Do I have your permission to go onto the premises to conduct a field exam on the aesthetic/fire protection and recreation storage pond?
- (2) Can you give me detailed directions to get to your property from Troy, Idaho?
- (3) Is the physical address for the property where the pond is located: 1026 Wallen Rd., Moscow, ID 83843?
- (4) The 3/3/2009 Tax Lot information shows you as the owner, only with 1006 Bellview Rd. McClean, VA 22102 as your address. Do you want your address on your water right to have the Moscow, ID address or the McClean, VA address? If changing it to the McClean, VA address, you can complete and return the address change form found at: <http://www.idwr.idaho.gov/RulesStatutesForms/WaterRights/WaterRightForms.htm> (then scroll down to address change).
- (5) On the attached map, please outline the pond. ***please label and return a copy of the map
- (6) On the attached map, locate and label the point of diversion from the unnamed stream.*** *he's sending map*
- (7) What is the average depth of the pond? *shallow 6" deep end 20'*
- (8) Is there an overflow in the pond, and where is it located? Mark and label it on the map.*** *west end of pond (cement overflow) by cattails*
- (9) Is the pond lined? If so, how and with what? *No*
- (10) What kind of wildlife use this pond? *40 ducks, moose, deer, geese, otters, game birds, song birds, elk birds, hawks, owls, swallows, trout, frogs*
- (11) What is this pond used for that you would classify it as recreational? *fishing, walking around pond, swimming, picnic*
- (12) How is this pond used for fire protection? Do you have a pump, and if so what type, make, model/serial #, Hp, discharge size, lift, and psi it is run at?
- (13) If a pump is used, but not kept out at the pond (kept locked up), please take a picture and attach it with your return email. *he'll send a picture*
- (14) When does the unnamed stream usually run? *assoc. w/ snow melt & run-off (mailing map)*
- (15) What makes up the flow in the unnamed stream (springs, run-off, snow melt, etc)?
- (16) Is this pond used for any other things, other than those uses listed on your permit? *No*
- (17) Is there any supplemental water? *there's a spring in the pond, but can't verify*
- (18) Describe all details of the system, from beginning to end. *constructed 2001, w/ some Id Fish & Game Dept funds (sterilized grass carp to keep pond clean) overflow to the south, terrain surrounding pond is steep adding to additional run-off fish have done well in the pond.*

Honda pump & red fire hose (stored in yellow pole building)

Make/model/serial # Honda WX15, model GXH50, 4 stroke

Hp _____
discharge size 1 1/2" 1

Max. Discharge 63.4 gpm



Sandy Hemenway
 Sr. Water Resource Agent
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