

MEMORANDUM

Date: July 17, 2008
To: Water Right File 37-8759
From: jstanton
Re: Field Report Narrative

Today I visited this property to do a re-exam as requested by the attorney for the owner. The sprinkler system was on this time, and I was able to observe additional land being watered on this hillside above the grassy flat ground. About 0.1 acres of additional land is being recommended; the purpose of this is for fire protection, which is a big concern in this mountainous area. Additional diversion volume is also recommended.

The original exam stated that there was no flow meter, but this is not entirely correct. There is an in-line meter in the 1" line that serves the sprinkler system. With the largest set of pop-up heads in operation (12 heads at about 2.5 gpm each), 33.5 gpm (0.07 cfs) was measured; at the allowed 0.03 cfs per acre, only 0.03 cfs can be recommended, however.

There is not a lockable controlling works suitable for watermaster control as required on the permit, but the watermaster is currently working on this issue in WD 37. I propose to license the permit ASAP and let the watermaster deal with this issue.

IDAHO DEPARTMENT OF WATER RESOURCES

STAFF ANALYSIS SHEET FOR BENEFICIAL USE FIELD EXAMS:

PERMIT NO. 37-8759 Re-Exam

A. Items To Be Placed In Exam File (Items A & B to be Completed by Compiler)

- (☒) Blank Field Report & Notice of Completed Exam
- (☒) Copy of App. for Permit, Approved Permit, Amendments, Orders, Assignments, Proof of Beneficial Use, SRBA Claim (Claim Filed? _____ Required? _____)
- () Well Inspection Form, Dairy Water-Use Worksheet (if applicable)
- () Well Log(s) & Groundwater Measurement Analysis Form (if applicable)
- () Copy of Orthophotoquad Map
- (☒) 660-Scale Aerial Photo (Examiner Will Obtain If Applicable)
- () Government Lot Plats (If Applicable)

B.1. P/D Overlap - Yes or No? If Yes, Include Copy of Overlapping Rights & Claims

- If Yes, Type of Overlap: () Add Acres or Uses to Existing System
() Increase Rate of Flow or Volume

B.2. P/U Overlap - Yes or No? If Yes, Include Copies of Overlapping Rights & Claims

- If Yes, Type of Overlap: () Increase Rate of Flow or Volume
() Add Supplemental Water Source
() Increase Acres Within Tracts

C. Field Exam Appointment Made:

Date 7-10-08 Time 10 am Place POH

Contact Person & Phone _____

D. Post-Exam Review & Processing

Exam Completed 7-10-08 Notice of Completion Turned In _____
Field Report Completed 7-14-08 J. F. Stanton 7-14-08
Signature of Examiner & Date
Field Report Reviewed by Sr. Agent _____ (Initial & Date)
Field Report Reviewed by Region Mgr. _____ (Initial & Date)
Field Report Sent to S.O. _____ Region Card File Updated _____

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 37-7859 re-exam

1. Owner: Donna F Tuttle Phone No. _____

Current Address: c/o James A. Speck, PO Box 987, Ketchum, ID 83340 726-4421

2. Accompanied by: Tom Denker EXAM DATE: 7-10-08

Address: c/o Evergreen Landscaping, PO Box 1156 Ketchikan Phone No. 726-5267

Relationship to Permit Holder: employed to maintain property

3. Source: Groundwater tributary to _____

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 SYSTEM

1. Point(s) of Diversion:

[illegible]

2. Place(s) of Use:

Indicate Method of Determination

[illegible]

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.

Scale: 1" = _____

____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

☒ Aerial Photo Attached
(required for irrigation of 10+ acres)

☒ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
	Franklin	3	?	Foulds	Model 406S-20

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Hensley Flow Meter	in-line		452		1"	

2. Measurements: Irrigation use measured at 33.5 gpm (0.07 cfs) with 12 2.5 gpm pop-up sprinklers running. Pump rated at 45 gpm (0.10 cfs) at 50 psi & 45' lift per Walker Water Systems (well driller/pump installer).

E. NARRATIVE/REMARKS/COMMENTS

This re-exam was conducted at the request of attorney Jim Speck in order to resolve a dispute over the recommended pon for irrigation. The water system was shut down for the season during the original exam, so I only recommended the area that was in planted trees, lawn, & other non-native vegetation.

By observing the sprinkler system in operation, I could see that an additional area uphill from the recommended pon is also watered. The additional area consists of sagebrush & natural grass that is presumably watered for fire-prevention purposes. This seems entirely reasonable, so am adding an additional 0.1 acres to the recommended pon.

I also added a tiny bit of ground north of pond to the shape, but this had little effect on the total acreage.

It appeared to me that some of the land shown as parking area in the original exam has now been sodded. I am not counting this small patch as part of the recommended pon.

The original exam stated that there was no flow meter, but this was not entirely correct. There is a meter in the 1" line that serves the irrigation system, but not in the lines to the other uses. Tom said that the meter was put in several years ago, and the amount of recorded usage confirms this.

There is apparently no locking mechanism currently on the system that the watermaster could use to shut down irrigation outside the lawn area, as required by the permit. The watermaster is working on this issue in District 37, so I do not intend to pursue the matter at this time. Recommend that the license be issued ASAP.

I was ably assisted by Benny Walker of IDWR on this exam.

Have conditions of permit approval been met? ☐ yes ☒ no

F. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

$$1.1 \text{ ac} \times 0.03 \text{ cfs/ac} = 0.033 \text{ cfs. Allow } 0.03 \text{ cfs}$$

Domestic - Allow 0.04 cfs standard rate for 1 home

Div To Storage - Allow permitted rate of 0.05 cfs

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.1 \times 3.5 = 3.85$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.03 \times 184 \times 1.9835 = 10.9$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.85 \text{ AFA, Allow } 3.9 \text{ AFA}$$

2. Volume Calculations for Other Uses:

Domestic - Allow 0.6 AFA standard in-house volume

Fire Protection Storage - Allow permitted volume of 0.1 AFA

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Irrigation	5-1	10-31	0.03	3.9
Domestic	1-1	12-31	0.04	~~0.04~~ 0.6
Div To Storage	1-1	12-31	0.05	
Fire Protection Storage	1-1	12-31		0.1
Totals:			0.09	4.6

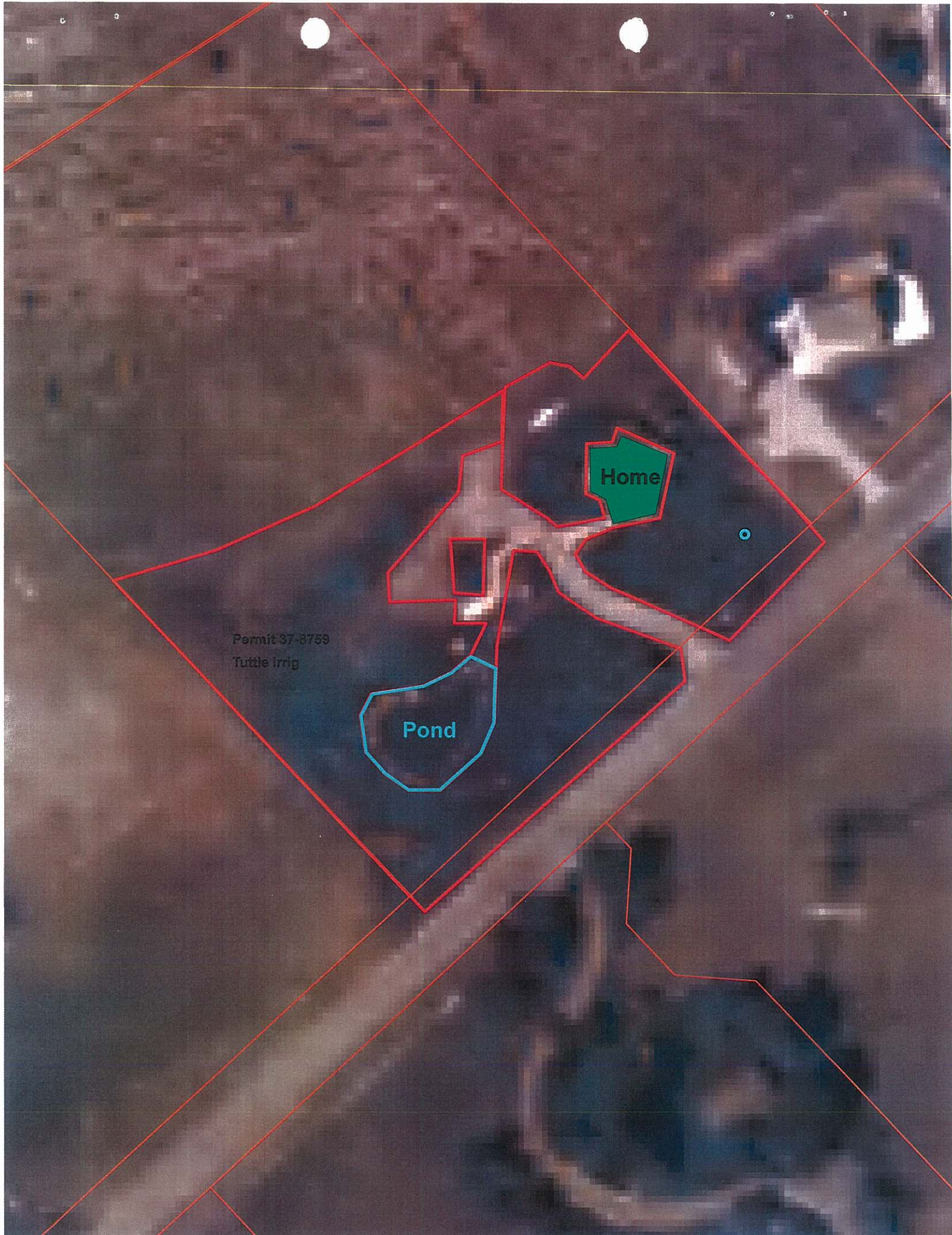
2. Recommended Amendments

☐ 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

I. AUTHENTICATIONField Examiner's Name J.F. Stanton Date 7-14-08

Reviewer _____ Date _____

SEAL



Home

Permit 37-8759
Tuttle Irrig

Pond

Comment Report

37-8759

1. jstanton 11/13/2007 Field Report Narrative

Comment: On 11-6-07, I visited the subject property accompanied by the caretaker (the owner lives in California, spending only about 30 days here each year, mainly on weekends). The single well near the NE corner of the property serves a home, about 1 acre of lawn and landscaping via a buried sprinkler system, and a lined pond that holds water for fire protection. The pond is more for aesthetic purposes, but only fire protection is on the permit. A removable pump recycles pond water to a short stream/waterfall that runs back into the pond in order maintain water quality. A 4" pipeline in the pond feeds a fire hydrant near the south edge of the driveway in case water is needed for fire fighting. A float valve on the line to the pond opens as needed to keep the pond full. A 3 hp motor and pump in the well are rated at 0.10 cfs per Walker Water Systems.

The property address is #47 Eagle Creek Road. This is not a platted subdivision. It is Tax Lot 4018 in Blaine County.

This permit was approved based on the availability of Right 37-496C. This right has been recommended in the SRBA for irrigation, but this needs to be changed to mitigation. The right is left in the Big Wood River so that groundwater is available for this permit. When the mitigation right is not available due to a priority cutoff, the watermaster sends a letter to the owner (probably to her lawyer Jim Speck) to that effect. In such cases, no more than 1/2 acres should be watered. While the permit requires a measuring device and lockable controlling works, neither exists. This is a buried system with at least 2 pipelines running from the well. The domestic use and 1/2 acre of irrigation cannot be shut off, so this condition does not appear to have any practical value. The watermaster does not personally shut off wells, anyway. Recommend these requirements be dropped. The alternative is to order the owner to tear up their whole property to put in a system that can physically be controlled by a watermaster that has neither the time nor the inclination to do so. Then we should probably also order the watermaster to personally control this diversion (and any other wells subject to priority cutoffs).

2. jstanton 7/14/2008 Field Report Narrative

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3. VAULT 10/2/1996 Extension of Time Received

Comment: Extension of Time Received

4. KTOWNSEN 1/21/2000 Proof of Beneficial Use Rcvd

Comment: Proof of Beneficial Use Rcvd

Stanton, Jim

From: Stanton, Jim
Sent: Monday, July 14, 2008 2:21 PM
To: Edl, Michele
Cc: Stanton, Jim
Subject: Draft Lic 37-8759 Tuttle Trust
Attachments: Draft Lic 37-8759 Tuttle.doc

7/14/2008

IDaho DEPARTMENT OF WATER RESOURCES

STAFF ANALYSIS SHEET FOR BENEFICIAL USE FIELD EXAMS:

PERMIT NO.

5
37-08729

A. Items To Be Placed In Exam File (Items A & B to be Completed by Compiler:

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If Yes, Type of Overlap: () Increase Rate of Flow or Volume
() Add Supplemental Water Source
() Increase Acres Within Tracts

C. Field Exam Appointment Made:

Date 11-6-07

Time 1:30 pm

Place Tattle property

Contact Person & Phone _____

D. Post-Exam Review & Processing

Exam Completed 11-6-07

Notice of Completion Turned In 12-3-07

Field Report Completed 12-3-07

JF Stanton 12-3-07
Signature of Examiner & Date

Field Report Reviewed by Sr. Agent _____ (Initial & Date:

Field Report Reviewed by Region Mgr. _____ (Initial & Date:

Field Report Sent to S.O. _____ Region Card File Updated _____