

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-10889

Exam Date: 5/11/2016

1. Current Owner:
RON PRATTE 4400 W EARHART WAY CHANDLER AZ 85226 (208)277-7774

2. Accompanied by: Leon Elliott
Phone No: 208-446-3670
Relationship to Permit Holder: Grounds Keeper

3. **SOURCE:**
COEUR D ALENE LAKE

TRIBUTARY:
SPOKANE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 95-12295 and 95-9178
2. Other water rights with the same point-of-diversion: 95-12295

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

COEUR D ALENE LAKE NW¼SW¼ Sec. 20, Twp 48N, Rge 04W, B.M. KOOTENAI County

Method of Determination: Maps and GPS. POD location at 116° 53.676, 47° 29.271

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
48N	04W	20							0.3 L 2			1.7 L 2							2.0

Total Acres: 2

Method of Determination: Google Earth and Arc map.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

X Indicate weir size/pipe as applicable.X Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.X Aerial Photo Attached (required for irrigation of 10+ acres).X 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
	FRANKLIN	7.5			

*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

2. Measurements: UNABLE TO PERFORM MEASUREMENT. UNITED CROWN PUMP CONTACTED AND THEY VERIFIED THEY INSTALLED A 60 GPM 7.5 HP FRANKLIN PUMP FOR IRRIGATION.

E. FLOW CALCULATIONS

Measured Method:

_____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2 \text{ AC} \times 3 \text{ AF} = 6.0 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.06 \times 246 \times 1.9835 = 29.3 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 6.0 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Field exam with Leon Elliot (applicant's grounds keeper) showed unknown pump size from lake for irrigation. A call to United Crown Pump on 3/14/17 confirmed pump installed was a 60 gpm 7.5hp Franklin. Application was for various uses, however, only irrigation was developed and used. Mr. Elliot said they tried using lake water for the water feature but it was not successful. He said the water did not react well to chemicals that were added and grew algae and other things. Diversion to storage, aesthetic, and aesthetic storage will be removed from license. Mr. Elliot stated they used well water for water feature and applicant's representative will be contacted about filing an adjudication claim or application to cover it.

The water system was tough to understand because numerous builders and contractors had worked on it and nobody can a clear understanding of how it worked. It appeared that water was pumped from lake up a hill to a filtration system. After it was filtered it was put into a small underground vault with a large pressure tank above. The vault would feed the pressure tank and irrigation would be done in various sections around the property while lake pump kept vault full.

Pump is capable of producing 60 gpm or 0.13 cfs. License will be issued for 0.06 cfs for the irrigation of 2 acres. Applicant also has another permit 95-12295 for the irrigation of 5 acres. After both exams and tracing out irrigation on Arc map it was determined that applicant was irrigating 6.3 acres. Licenses will have overlap condition stating when both rights are combined cannot exceed 0.13 cfs and the irrigation of 6.3 acres. Condition 928 will also be placed on both licenses because applicant has an adjudication claim 95-9178 for domestic use from the lake.

License will also show a new QQ in the pou as SWNW gov lot 2. Because application and permit showed NWSW gov lot 2 we can make correction to show all QQ in gov lot 2.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>
IRRIGATION	03/15 to 11/15	0.06 CFS
<u>Totals:</u>		0.060 CFS

2. Recommended Amendments

Change P.D. as reflected above Add P.D. as reflected above X None
 Change P.U. as reflected above X Add P.U. as reflected above None

I. AUTHENTICATION

Field Examiner's Name Adam Franklin Date 3-27-2017
 Reviewer Morgan Case Date 4/11/2017

State of Idaho
Department of Water Resources
Attachment to Field Exam
95-10889

IRRIGATION



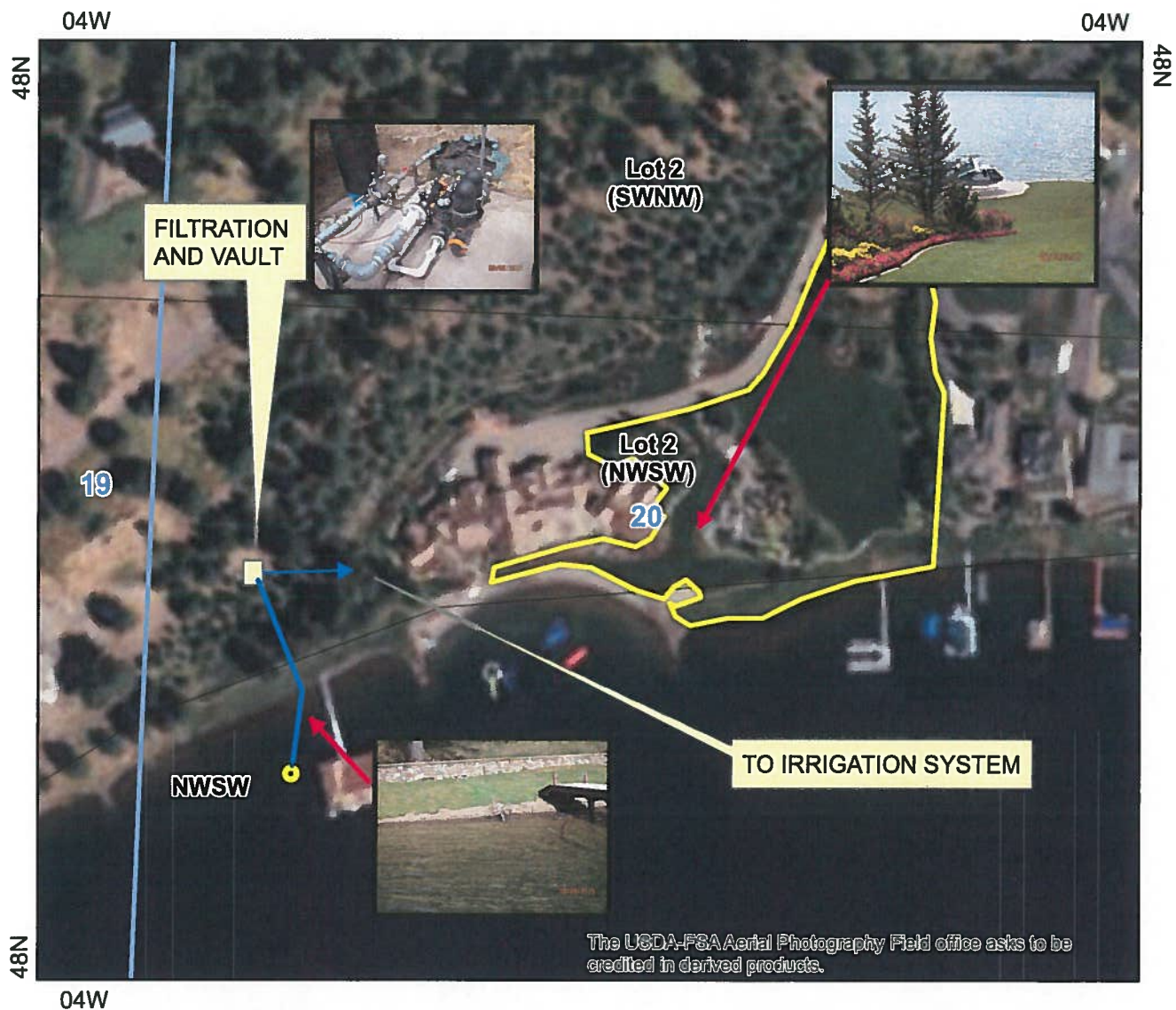
-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.035 0.07 0.14 Miles



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SYSTEM DIAGRAM



- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections

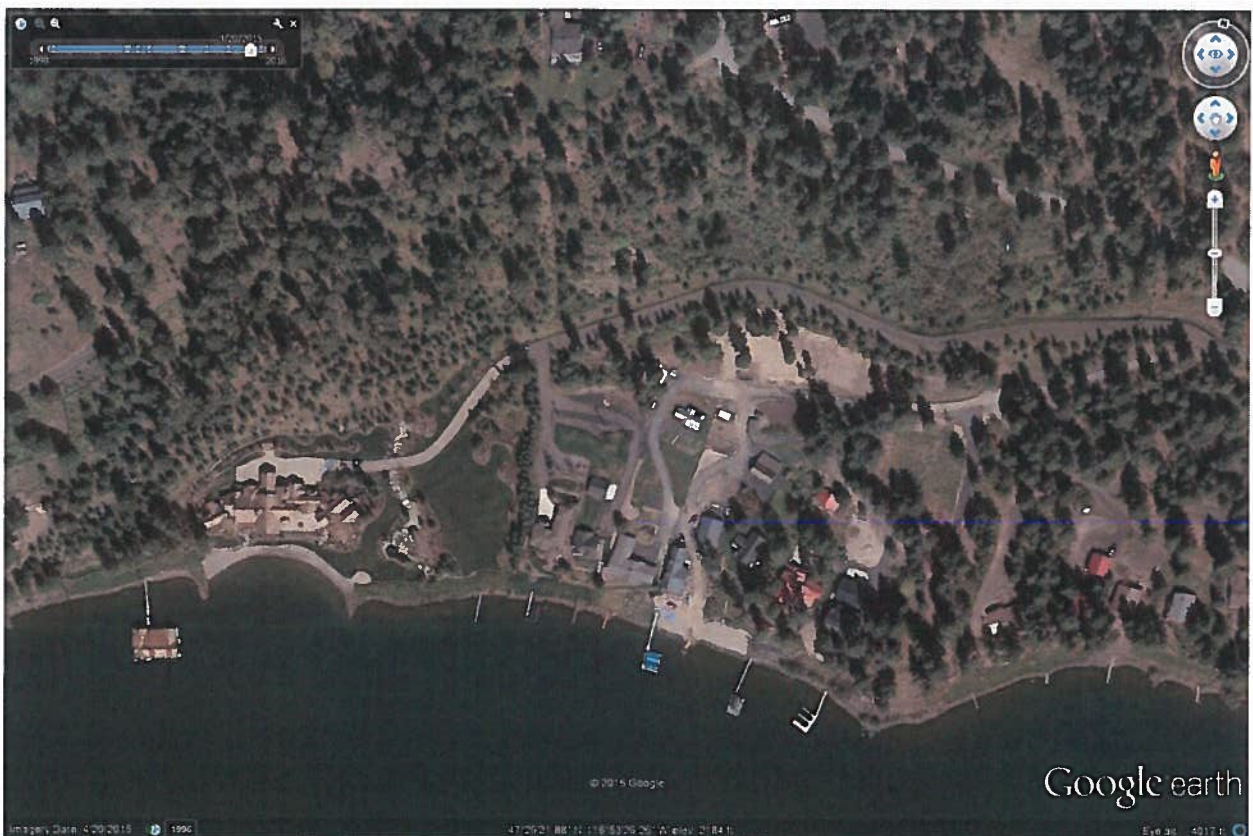
0 0.02 0.04 0.08 Miles



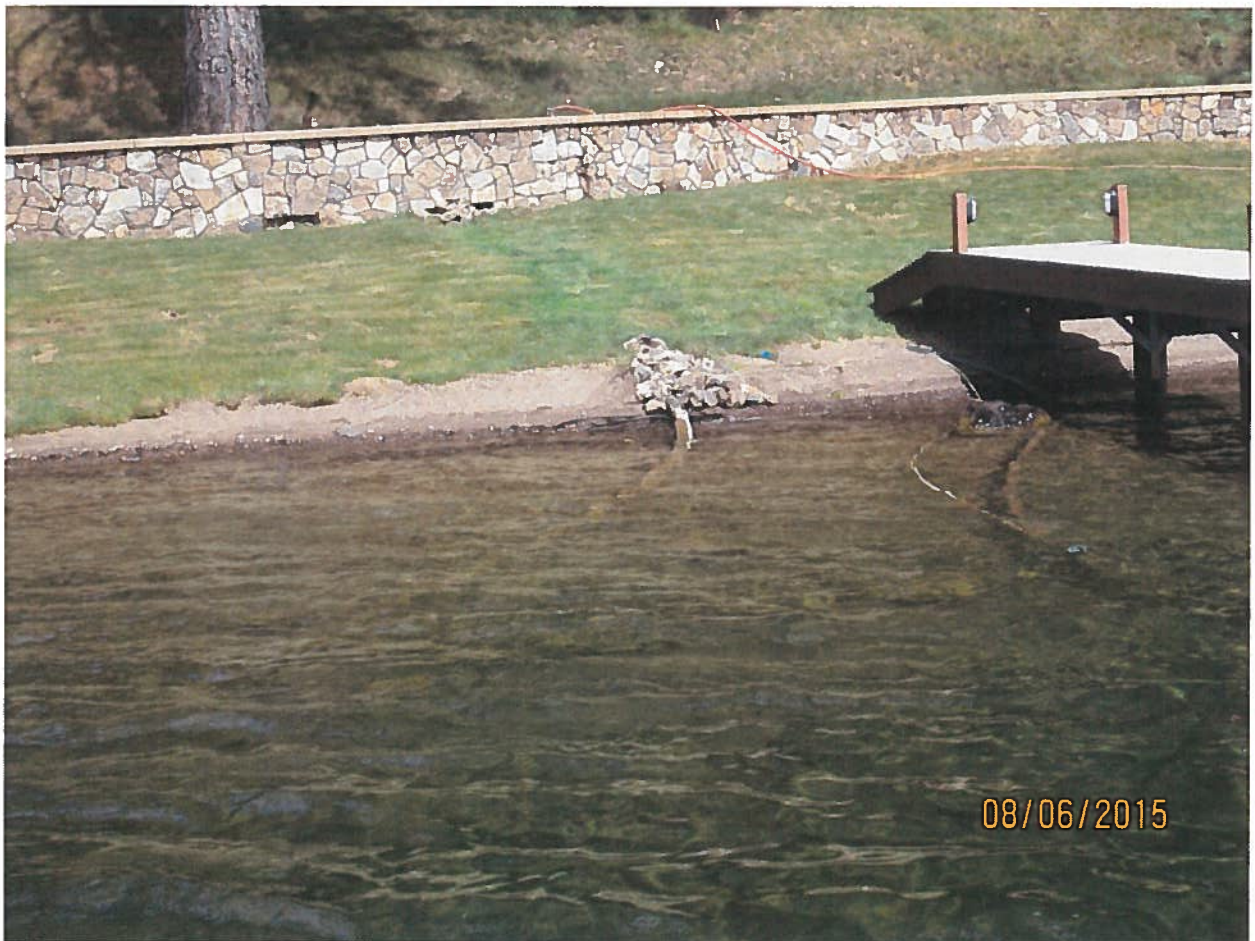
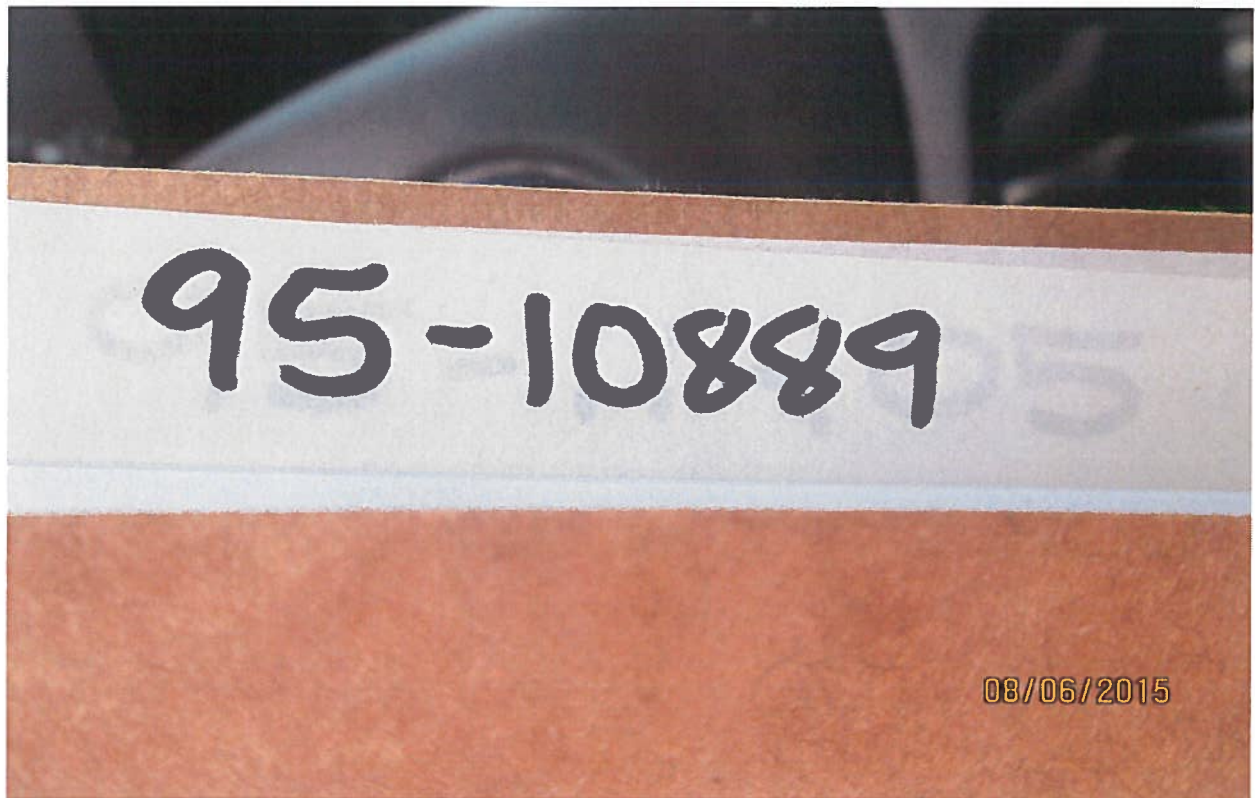
GOOGLE EARTH IMAGES TO SHOW THE IRRIGATION FOR WATER RIGHTS 95-12295 AND 95-10889



GOOGLE EARTH IMAGE FROM 7/23/2013



GOOGLE EARTH IMAGE FROM 4/20/2015



Point of diversion. One point is for irrigation and 2nd point is for domestic adjudication claim 95-9178.



View from boat house above where pump is located.



Filtration system for lake water. Water is pumped from lake to filtration to small storage tank and then pumped to irrigation system.



Irrigating dry spots with hose and sprinklers.





