

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 97-07441
Exam Date: 6/29/2017

1. Current Owner:
ROBERT WALLY DRISCOLL 1723 W 12TH AVE SPOKANE WA 99204 (509) 467-5818
2. Accompanied by: Robert Driscoll

3. **SOURCE:**
PRIEST LAKE

TRIBUTARY:
PRIEST 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 SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

PRIEST LAKE SE¼NE¼ Sec. 12, Twp 60N, Rge 05W, B.M. BONNER County
PRIEST LAKE SE¼NE¼ Sec. 12, Twp 60N, Rge 05W, B.M. BONNER County

Method of Determination: Maps and GPS. POD's located at -116° 55.065, 48° 34.194

2.

PLACE OF USE: FIRE PROTECTION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
60N	05W	12	X L 1			X													
60N	05W	12				X L 3													

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
60N	05W	12	X L 1																

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	
60N	05W	12	1.2 L 1			0.1													1.3
60N	05W	12				0.1 L 3													.1

Total Acres: 1.4

Method of Determination: Google Earth, Arcmap, Bureau of Land Management General Land Office Records.

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
PUMP 1	MYERS	1	16409FM		
PUMP 2	UNKNOWN				

*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
5 GALLON BUCKET						

2. Measurements: 5 gallon bucket test measured in 23 seconds

5 gal / 23 sec x 60 sec = 13.0 gpm or 0.03 cfs

E. FLOW

CALCULATIONS

Measured Method: N/A

_____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1.4 \text{ AC} \times 3.0 \text{ AF} = 4.2 \text{ AF}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 214 \times 0.03 \times 1.9835 = 12.7 \text{ AF}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 4.2 \text{ AF}$$

2. Volume Calculations for Other Uses: Domestic use for 1 RV

$$2 \text{ people} \times 50 \text{ gpd} \times 365 \text{ days} = 36,500 \text{ gpy} / 325,850 \text{ gal/af} = 0.1 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

Field exam with applicant, Robert Driscoll, showed water diverted from Priest Lake for domestic, irrigation, and fire protection purposes. The applicant had two pumps on his dock as one was used for the domestic and irrigation and the 2nd was only in case of fire. A 5 gallon bucket test was performed on the pump that supplied the irrigation and domestic water and was filled in 23 seconds. The 5 gallon bucket showed the pump was capable of 13 gpm or 0.03 cfs. A diversion rate for the fire protection pump was not taken at time of exam because it is an exempt use and it could confuse the licensed diversion rate. By amending the license to add a point diversion, there could not be any clarity between which POD could divert what rate on the license. By adding the 2nd POD, the applicant can divert up to 0.03 cfs from either point for domestic, irrigation, and fire protection. If a higher rate was given for fire protection, there would be no way of identifying which point of diversion would be limited to irrigation and domestic.

An amendment of permit was required because this location had a very confusing legal description layout. Upon review it was found that the uses and point of diversion were not all located in government lot 1 like it was applied for. There was some use in the NENE government lot 1 but there was also usage in the SENE and SENE of government lot 3. Because an amendment was required, we decided to add the additional point of diversion to correctly show the number of diversion points the applicant had. A map has been attached to show the actual location of QQ lines that all uses were based upon. Because our mapping layer cannot be changed easily, that map will be in the backfile as a reference. The layout maps will show some differences, but license was based upon the DRG lines and not our overlay of the QQ lines.

The applicant had numerous hoses strung all over the property for irrigation uses. The applicant would run a couple of tripod sprinklers at a time. The applicant also had hoses running to far northern edge of his property which was forested in order to keep the understory brush green. He said he did this to keep it green in case of fire. He did say he did not run the rear sprinklers as much as he ran the grass sprinklers near the lake. The irrigation was measured out to be 1.4 acres of irrigation. The domestic use was a RV trailer the applicant had on the property. The water was used in the trailer for all domestic uses except drinking. The trailer was hooked up to septic and generally served two people staying in the trailer. The domestic use will be given a daily volume of 100 gallons and will be given a total annual volume of 0.1 acre-feet.

There are going to be a lot of changes from the conditions on the permit to the license. The following conditions will be removed at time licensing; 26A, X59 (the property description say un-platted and not in a subdivision). Condition R62 will be changed to correct condition R66 and WB9 will be changed to address the minimum lake level of Priest Lake. Condition X15 will be added along with 227 to address the minimum stream flow on Priest River. Condition 132 will be slightly modified to identify the domestic use as an RV. Conditions 077 and 004 will remain.

There does not appear to be any overlap concerns. Water right 97-7233 appears to be further west based upon the map provided in backfile. Water rights 97-7088 and 97-7089 are both in the name of the Dobson's who own a property further to the west of this right. Because an adjudication has not occurred in the 97 basin, it is challenging to determine with 100 percent accuracy on whether there any overlap with these other rights.

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>	<u>ANNUAL VOLUME</u>
IRRIGATION	04/01 to 10/31	0.03 CFS	
FIRE PROTECTION	01/01 to 12/31	0.03 CFS	
DOMESTIC	01/01 to 12/31	0.03 CFS	0.1 AF

Totals: 0.030 CFS

2. Recommended Amendments

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

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

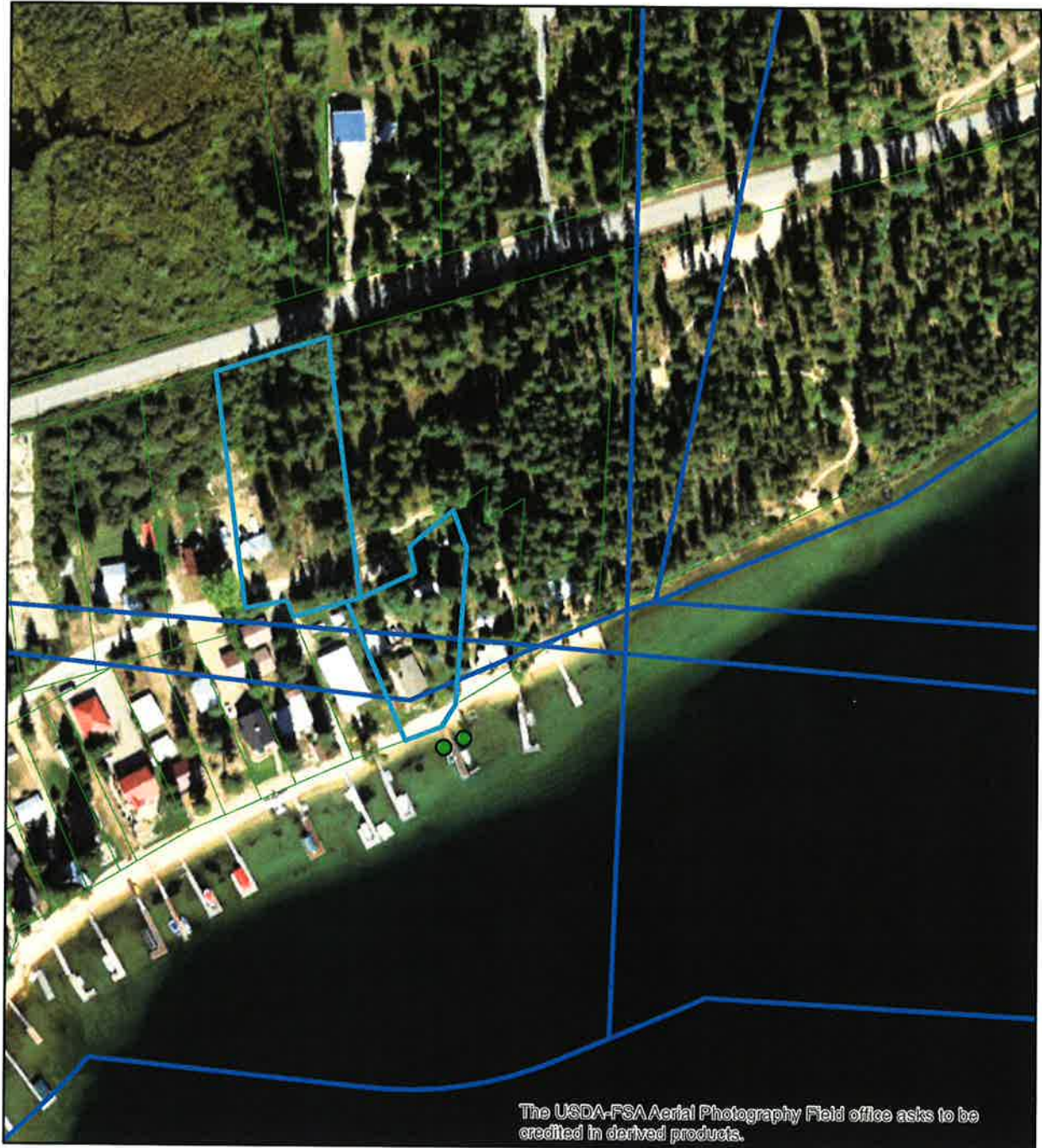
I. AUTHENTICATION

Field Examiner's Name Adam Fink Date 10/31/18

Reviewer Douglas Jones P.E. Date 1/28/19

CORRECTED MAP FOR 97-7441

This map reflects the proper location of QQ which will not be reflected on the attachment maps.



Legend

-  KALISPELL-BAY
-  Taxlots

0 0.02 0.04 0.08 Miles



State of Idaho
Department of Water Resources
Attachment to Field Exam
97-7441

DOMESTIC / SYSTEM DIAGRAM



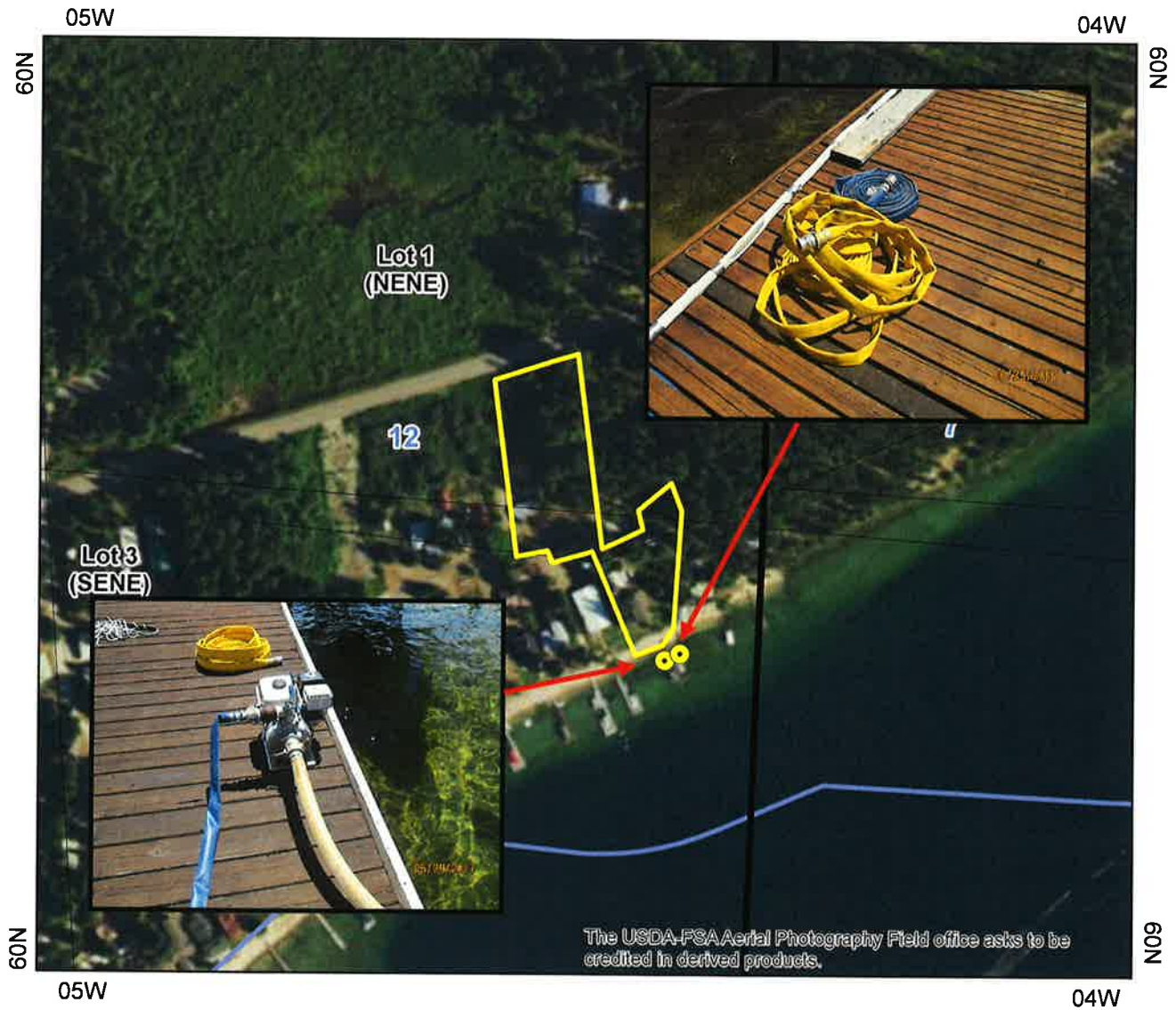
- Point of Diversion
- Place Of Use Boundary
- Townships
- PLS Sections

0 0.035 0.07 0.14 Miles



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FIRE PROTECTION



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

0 0.035 0.07 0.14 Miles



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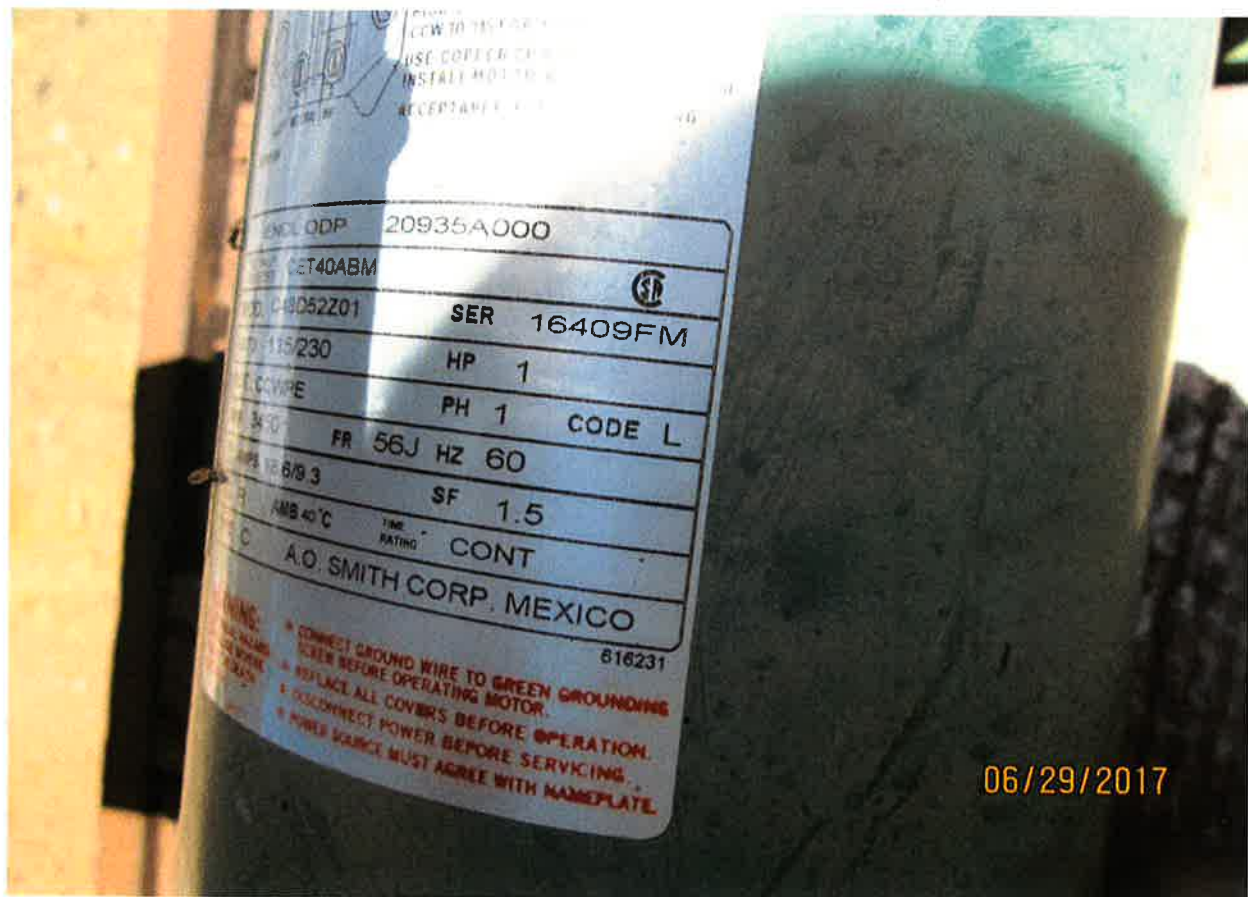
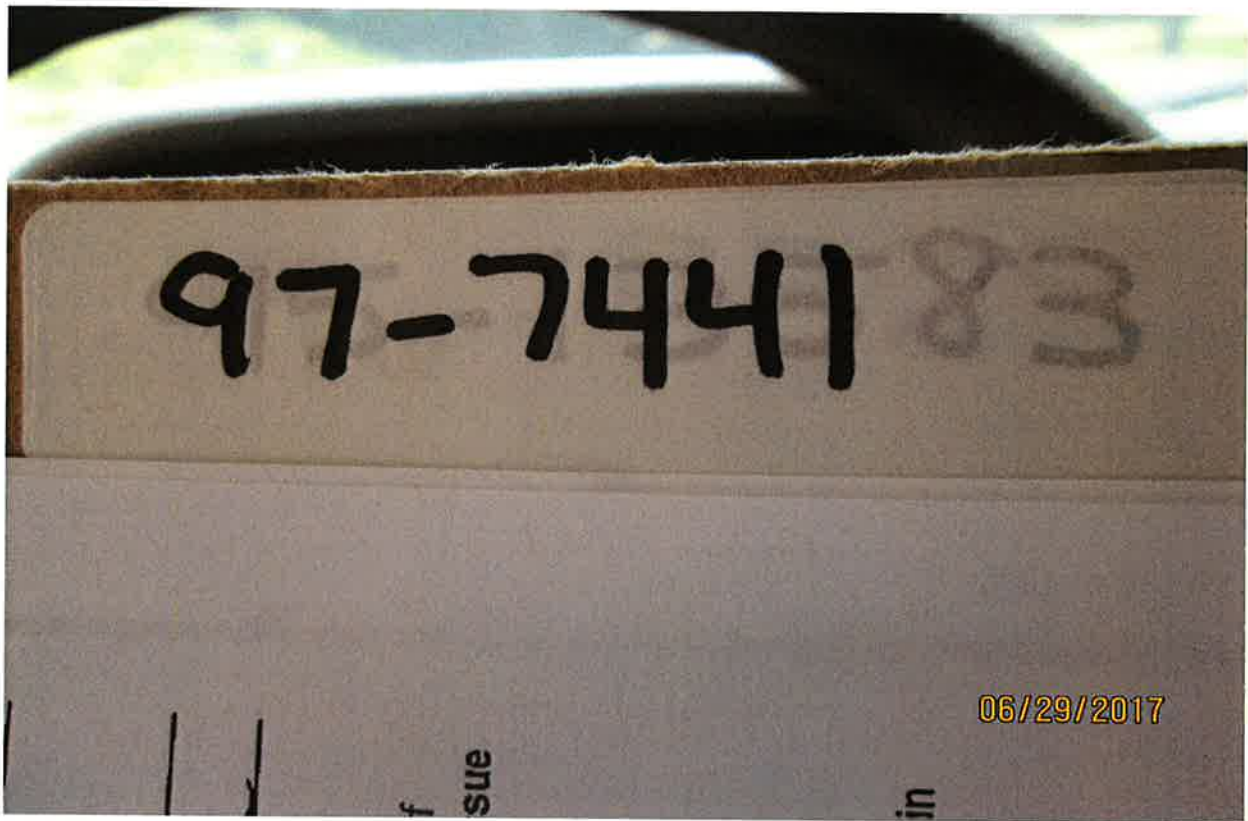
IRRIGATION / SYSTEM DIAGRAM



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

0 0.035 0.07 0.14 Miles





1hp pump at POD.



Pump on dock.



Applicant had separate pump for fire protection only. Amendment of Permit will add a 2nd POD for fire pump.



Fire hoses out in case of fire.



Domestic use was for RV trailer that was hooked up to septic system.



POU irrigation.





POU irrigation.





POU irrigation.





Applicant irrigated his 2nd property that was north of home to keep green in case of fire.