STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-17482
Exam Date: 07/23/2020

1. Current Owner:
ROBERT R HOLLINGSWORTH 3956 TREVINO DR COEUR D ALENE ID 83815

2. Accompanied by: Robert R Hollingsworth
Phone No: 208-661-7021
Address: Same as above
Relationship to permit Holder: Permit Holder

3. **SOURCE:** CEDAR CREEK

Tributary WOLF LODGE CREEK

Method of Determination: Arcmap and DRG.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
95-14411	GROUNDWATER	DOMESTIC	DECREED

Comments: Right 95-14411 is decreed for same applicant, and uses ground water for domestic use.

2. Other water rights with the same point-of-diversion: NO Overlap

Water Right No.	Source	Purpose of Use	Basis

Comments: _____

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**
CEDAR CREEK SE¼ SE¼, Sec. 32, Twp 50N, Rge 02W, B.M. KOOTENAI County

Method of Determination: GPS; POD is a submersible pump in creek located at -116°36.661, 47°37.900.

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
50N	02W	32																0.4	0.4

Total Acres: 0.4

Method of Determination: Field exam and Arcmap.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.
__X__ 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
__X__ 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
N/A					

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5 GAL BUCKET TEST						

2. Measurements: Three 5 gallon bucket tests were completed from 1 inch pvc pipe where it entered 24 hr use cistern, with average of three resulting in diversion flow rate of 5 gal / 41.63 sec x 60 sec/min = 7.2 gpm = **0.02 cfs.**

E. FLOW CALCULATIONS

Measured Method: 5 GAL Bucket Test = (5 gal / 41.23 sec) x 60 sec/min = 7.28 gpm
= (5 gal / 42.51 sec) x 60 sec/min = 7.06 gpm
= (5 gal / 41.16 sec) x 60 sec/min = 7.29 gpm
Average of 3ea 5 GAL Bucket Tests = (7.28 gpm + 7.06 gpm + 7.29 gpm) / 3 = 7.2 gpm = 0.02 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$V_{I.R}$ = (Acres Irrigated) x (Irrigation Requirement) = 0.4 ac x 3.0 afa = 1.2 af

$V_{D.R}$ = [Diversion Rate (cfs)] x (Days in Irrigation season) x 1.9835 = 0.02 cfs x 246 days x 1.9835 = 9.8 af

V = Smaller of $V_{I.R}$ and $V_{D.R}$ = 1.2 af

2. Volume Calculations for Other Uses:

Irrigation use is from a surface water source, as such there are no volumes applied to license.

G. NARRATIVE/REMARKS/COMMENTS

Field exam conducted on 7/23/2020 with applicant, Robert Hollingsworth, showed water being diverted from a creek using a ¼ HP submersible pump for irrigation purposes. Applicant routed 1 inch PVC pipe to a concrete cistern, for 24 hour impoundment use, before servicing a pressurized irrigation system. Three 5 gallon bucket flow measurements were taken to determine the diversion rate, with average of three measurements equaling 5 gal / 41.63 sec x 60 sec/min = 7.2 gpm = **0.02 cfs**, which will be applied as the maximum diversion rate on license.

Applicant permitted for 2.0 acres of irrigation; at time of field exam, the irrigated acreage was sketched out. During licensing review, irrigation acreage was traced out using Arcmap aerial imagery and equals 0.4 acres. The annual volume requirement equals 0.4 ac x 3.0 afa = 1.2 af, but as this is a surface water source right, no volumes are applied to license. Applicant used 1 inch PVC pipe to route water from the POD to the POU, which incorporated a small pressure tank to service two runs of pressurized sprinklers and soaker hose lines that border applicant's driveway. Irrigation use is primarily to water trees that line driveway, as well as some ground cover plants and grass.

Condition 26A was removed from permit at time of licensing. All other conditions remain for licensing. Right 95-14411 overlaps this rights POU, and uses well water for domestic purposes, but on a separate system than this Right's irrigation system resulting in no concern for overlap. There are no other overlap concerns for this right.

Have conditions of permit approval been met? __X__ Yes ____ No

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use	Rate of Diversion
IRRIGATION	03/15 to 11/15	0.02 CFS
	Totals:	0.02 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

Luke Bates - Water Resource Agent

Field Examiner's Name _____ Date 8/20/2020

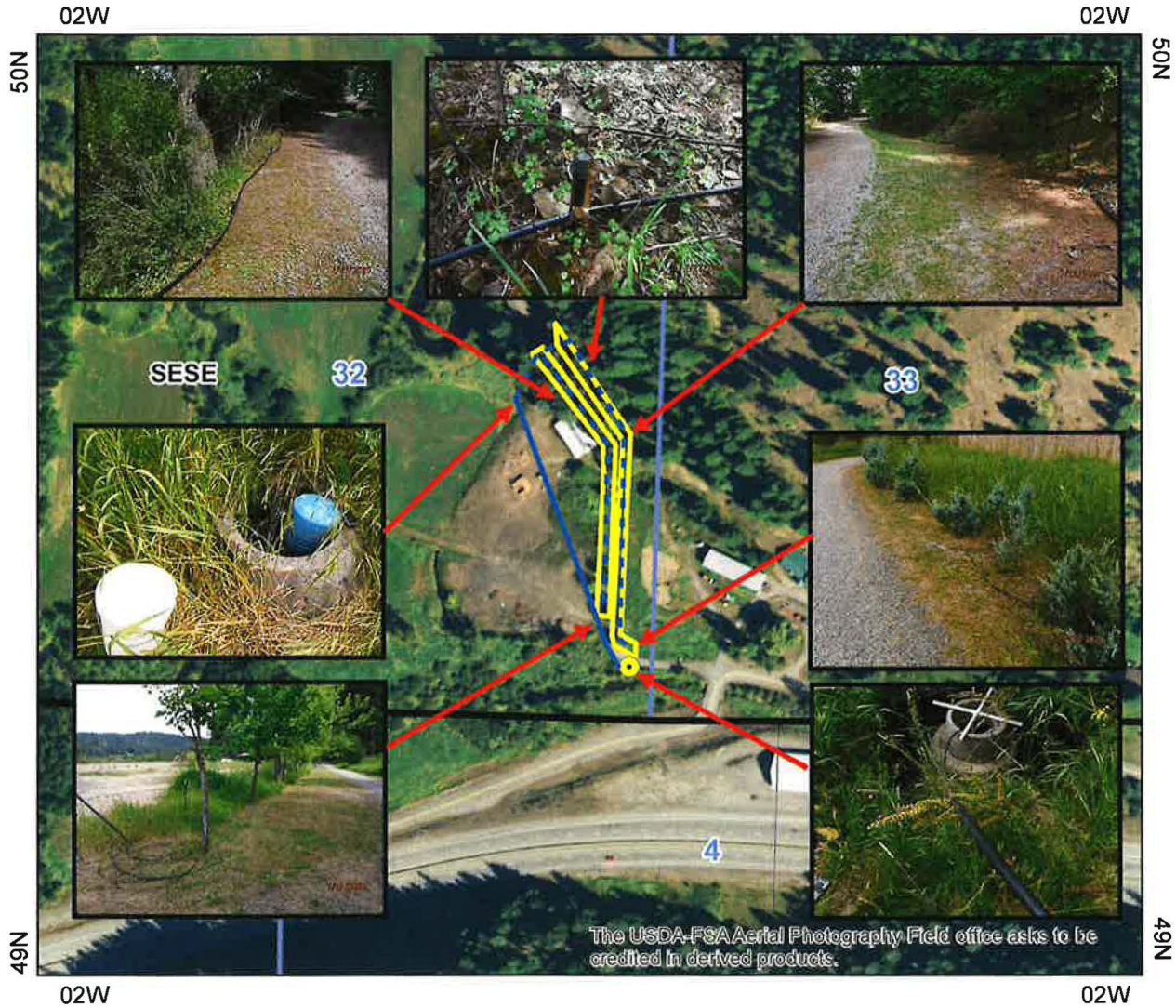
Reviewer _____ Date 8/21/2020

State of Idaho
Department of Water Resources

Attachment to Field Exam

95-17482

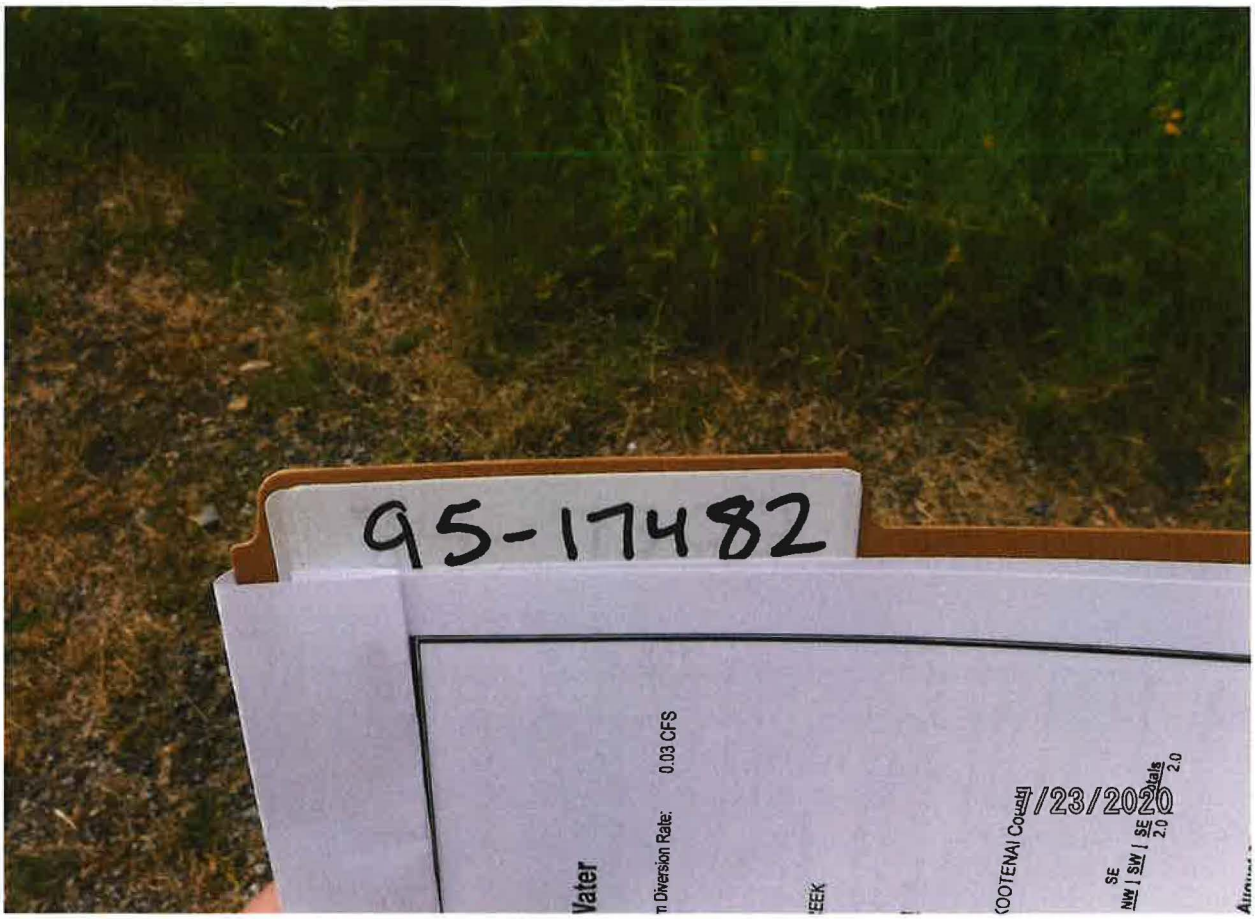
IRRIGATION system diagram.



Point of Diversion
Place Of Use Boundary
Townships
PLS Sections
Quarter Quarters

0 0.035 0.07 0.14 Miles

N



POD – SUBMERSIBLE PUMP IN CEDAR CREEK

EVERBILT ¼ HP SUBMERSIBLE SUMP PUMP

STORAGE CISTERN – 24 HOURS USE FOR IRRIGATION

IRRIGATION POU

IRRIGATION SPRINKLER SYSTEM

IRRIGATION POU

IRRIGATION POU

IRRIGATION SYSTEM AT POU

IRRIGATION SYSTEM PVC PIPE

IRRIGATION POU