

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
IN-OFFICE REVIEW/BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 95-16855

Exam Date: 10-28-2015

1. Does this qualify for an in-office field exam (IDAPA 035.02.r)? X Y N
- a. Irrigation of 5 acres or less
- b. Storage of up to 14.6 AF for stockwater purposes only
- c. Any use other than irrigation or storage, if the combined diversion rate is 0.24 cfs or less
- d. Other < >
2. Current Owner: Name: Sam Gridley and Paul Ventura
- Owner of Record Correct? X Y N
- Address of Record Correct? X Y N
- If No: Address : Added email address
- According to Kootenai County records updated 09/28/2015, Samuel B Gridley is the owner of the property.
3. Beneficial Use Fees have been paid: X Y N Receipt No: C101046
4. SOURCE TRIBUTARY
- Coeur D Alene Lake Spokane River
- Method of Determination: GIS
- Change in Source: Y X N

B. OVERLAP REVIEW

1. Other water rights with the same place of use: NO Overlap

Water Right No.	Source	Purpose of Use	Basis
95-8207	Ground water	Domestic	License

Comments: Water right 95-8207 is owned by Powderhorn Bay Water Association. This is a ground water domestic water right that services ten homes including the lot associated with this permit. This permit is for domestic external uses only and that condition should be carried over to licensing.

Permit 95-13055 is a domestic permit for the lot directly to the north that has a shape file overlapping slightly on to the taxlot associated with permit 95-16855. Permit 95-13055 overlap appears to be a slight mapping error that should be corrected when the permit is licensed and the shape is re-created. There are multiple shapes in GIS that slightly overlap the property boundary however these shapes are for domestic rights that do not appear to match with names associated with this property. Other overlaps in the QQ that are not direct overlaps are listed in the overlap analysis.

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

Water Right No.	Source	Purpose of Use	Basis

Comments: The point of diversion for this permit is Coeur D Alene Lake. There are no direct overlaps with the POD. There are 6 other water rights that list Coeur D Alene lake as the source in the two QQ's associated with this permit however none of these are direct overlaps or share the same POD location.

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

[illegible]

Method of Determination: GIS

Change in POD? ☒ X ☐ N Amendment Required? ☒ X ☐ N2. **PLACE OF USE:** 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	
48N	04W	14											X						
		Lot #											L6						
48N	04W	15																X	
		Lot #																L1	
Total Acres =																			

PLACE OF USE: 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	
48N	04W	14											X						
		Lot #											L6						
48N	04W	15																X	
		Lot #																L1	
Total Acres =																			

Method of Determination: GIS and aerial photography

Change in POU? ☒ X ☐ N Amendment Required? ☒ X ☐ N☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

☒ X 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
		1 HP Per application notes			

*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
N/A	N/A					

2. Measurements: In house field exam, no measurement s taken, see theoretical sheet

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

Theoretical calculation = 0.04 cfs

Permit allowed = 0.04 cfs

License recommend for 0.04 cfs.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\quad X 3.5 \quad} =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\quad X 214 X 1.9835 \quad} =$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

G. PURPOSE OF USEIrrigation ☒ Y ☒ X ☐ N # Stock _____ Domestic # of Homes ☒ 1 _____

Other: Fire protection

Change in Purpose of Use? ☐ Y ☒ X ☐ N

Method of Determination: Aerial photo shows one home

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

-This permit qualifies for an in-house field exam. Aerial photos show two buildings on the property with one possibly being a garage. This permit was for domestic external use only at one home along with fire protection. It appears that water right 95-8207 owned by Powderhorn Bay Water Association provides the domestic water for internal uses at this property.

-Conditions

-Condition #240 was replaced with #239 as it clarifies domestic use is for 1 home

-All four other conditions on the permit (187, x15, 004, 077) should be carried over to licensing.

Have conditions of permit approval been met? ☒ X Yes ☐ No**I. RECOMMENDATIONS****1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Domestic	01/01 to 12/31	0.04 CFS	0.6 AF
Fire Protection	01/01 to 01/01	0.04 CFS	
<u>Totals:</u>		0.4 CFS	0.6 AF

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

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Other: < >

J. AUTHENTICATION Steven Visosky, Water Resource Agent

Field Examiner's Name  Date 10-28-2015

Reviewer  Date 10-29-2015

Attachment to In-House Field Exam

95-16855

Map created by Steven Visosky 10-28-2015



- Point of Diversion
- Place Of Use Boundary
- Township/Range
- Sections
- QQ

0 0.01 0.02 0.04 Miles



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 95-16855
 Reviewer: Steven Visosky
 Date of Review: 10/27/2015

P/D No.:	Well #1	Well #2	Well #3	
PUMP HORSEPOWER	1	1	1	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	20	20	20	
DISCHARGE PRESSURE	30	40	50	
RATE OF FLOW (cfs)	0.07	0.05	0.05	0.06
	31	25	20	25.32

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

The permit holder stated they were using a 1 HP pump on their original application. The above calculations assume there would be a twenty foot lift from the lake to the roof of the house for sprinklers related to fire protection and or landscape sprinklers. Assuming standard pressures related to operating outdoor sprinklers, it would be safe to say that a 1 HP pump would deliver the rate of 0.04 cfs listed on the permit.

Process	Basin Sequence	Draft	Owner	Source	POD/ POU	SES E	Total Acres	License Review Comments
Water Right	95-12479	N	CALKINS, KURT	COEUR D ALENE LAKE	POU	X	0	Domestic to the north
Water Permit	95-13055	N	ROBINSON ETUX, ROBERT W	COEUR D ALENE LAKE	POU	X	0	Domestic, lot directly to the north of permit
Adjudication Recommendation	95-15040		THOMAS RETZEL LIVING TRUST	GROUND WATER	POU	X	0	Domestic, north
Water Permit	95-16855	N	GRIDLEY, SAM;	COEUR D ALENE LAKE	POU	X	0	PERMIT FOR COMARISON
Water Right	95-16855	Y	GRIDLEY, SAM;	COEUR D ALENE LAKE	POU	X	0	PERMIT FOR COMARISON
Water Right	95-4050	N	KENNAUGH, GEORGE L	SPRING	POU	X	0	Domestic different source, from claim, different name- west of permit
Adjudication Recommendation	95-4050		RAYTON FLOYD ULLRICH	SPRING	POU	X	0	Domestic different source, different name- west of permit
Water Right	95-4107	N	KENNAUGH, GEORGE L	COEUR D ALENE LAKE	POU	1.0	1	Irrigation- from claim-different name-west of permit
Adjudication Recommendation	95-4107		RAYTON FLOYD ULLRICH	COEUR D ALENE LAKE	POU	X	0	Irrigation- from claim-different name west of permit
Water Right	95-4412	N	DUNN, BARBARA J;	COEUR D ALENE LAKE	POU	X	0	Domestic, from claim different name, west of permit
Water Right	95-4413	N	DUNN, BARBARA J;	SPRINGS	POU	X	0	Domestic from claim, different name, different source west of permit
Water Right	95-7980	N	MARTIN, ADELA A; MARTIN, JACK	SPRING	POU	X	0	Domestic, different source, different name, west of permit
Water Right	95-8207	N	POWDERHORN BAY WATER ASSN	GROUND WATER	POU	X	0	Domestic, differnt source, - different name -water assn- Overlap of shape slightly onto property as it may deliver water to property.
Water Right	95-8764	N	UNDERWOOD, LAWRENCE	COEUR D ALENE LAKE	POU	X	0	Domestic, different name, west of permit
Water Right	95-8929	N	BLAIR, RHONDA L; FAULKNER, THOMAS C; MC CARTY, JOAN S; MC CARTY, LOU; MOORE, CHARMAINE; MOORE, ERVIN; THORPE, EILEEN; VERMILLION.	GROUND WATER	POU		2.5	Different source- west of permit
Adjudication Recommendation	95-8929		BLAIR, RHONDA L; FAULKNER, THOMAS C; MC CARTY, JOAN S; MC CARTY, LOU; MOORE, CHARMAINE; MOORE, ERVIN; THORPE,	GROUND WATER	POU		2.5	Different source- west of permit
Water Right	95-9054	N	FAULKNER, THOMAS C	COEUR D ALENE LAKE	POU		0.2	North west of permit

Adjudication Recommendation 95-12856	Meyer, Richard	COEUR D ALENE LAKE	POU		2	Recommendation to the lot directly to the south of permit from a license
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Process	Basin Sequenc	Dr aft	Owner	Source	POD/ POU	SW SW	Total Acre	License Review Comment
Water Right	95- 16855	Y	GRIDLEY , SAM; VENTURA, PAUL	COEUR D ALENE LAKE	POU	X	0	Permit under review
Water Right	95-4175	N	WOMACK, C E	COEUR D ALENE LAKE	POU	X	0	South
Water Right	95-8207	N	POWDERHORN BAY WATER ASSN	GROUND WATER	POU	X	0	Domestic ground water - south and west water assn
Water Permit	95- 13055	N	ROBINSON ETUX, ROBERT W	COEUR D ALENE LAKE	POU	X	0	Domestic for lot directly to the north of this permit
Water Permit	95- 16855	N	GRIDLEY , SAM; VENTURA, PAUL	COEUR D ALENE LAKE	POU	X	0	PERMIT UNDER REVIEW

Process	Basin Sequence	Draft	Owner	Source	POD/POU	SESE	Total Acres	License review comments
Water Right	95-12479	N	CALKINS, KURT	COEUR D ALENE LAKE	POD	X	0	North
Water Right	95-4050	N	KENNAUGH, GEORGE L	SPRING	POD	X	0	Different source west
Water Right	95-4107	N	KENNAUGH, GEORGE L	COEUR D ALENE LAKE	POD	X	0	west
Water Right	95-4412	N	DUNN, BARBARA J;	COEUR D ALENE LAKE	POD	X	0	west
Water Right	95-4413	N	DUNN, BARBARA J;	SPRINGS	POD	X	0	west
Water Right	95-7980	N	MARTIN, ADELA A; MARTIN, JACK	SPRING	POD	X	0	North west
Water Right	95-8215	N	KELLY, LESTER J; KELLY,	COEUR D ALENE LAKE	POD		0	north west
Water Right	95-8764	N	UNDERWOOD, LAWRENCE	COEUR D ALENE LAKE	POD	X	0	north west
Adjudication Recommendati on	95-15040		THOMAS RETZEL LIVING TRUST	GROUND WATER	POD	X	0	north west
Adjudication Recommendati on	95-4050		RAYTON FLOYD ULLRICH	SPRING	POD	X	0	north west
Adjudication Recommendati on	95-4107		RAYTON FLOYD ULLRICH	COEUR D ALENE LAKE	POD	X	0	north

Water Right	95-16855	X	0	PERMIT UNDER REVIEW
Water Right	95-4175	X	0	POD -Coeur D Alene Lake - South
Water Permit	95-13055	X	0	POD for lot with permit directly to the north
Water Permit	95-16855	X	0	PERMIT UNDER REVIEW
Recommendation	95-12856	X		Pod for recommendation for lot directly to the south