

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 75-7639

Exam Date: 8/21/2012

1. Current Owner: STEELHEAD BEND MUTUAL WATER CO
112 N AGATE DR
SALMON ID 83467-5168
(208)756-3690
2. Accompanied by: Roger Lanni
Phone No: (208) 894-2416
Address: 130 N Agate Drive
Relationship to Permit Holder: Mutual water cooperative operator

3. SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 75-7010 is the original source for the subdivision and allows for 0.6 afa / home
75-14177 supplies irrigation water from the Salmon River for one parcel within the Steelhead Bend subdivision
75-14178 supplies irrigation water from the Salmon River for one parcel within the subdivision
75-14273 and 75-14278 both provide Salmon River water to individual parcels within the subdivision for domestic internal use
75-10829 Belongs to Diane Yakovac. The property owned by Yakovac is not included in the Steelhead Bend subdivision
2. Other water rights with the same point of diversion: none

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

GROUND WATER L10 SE1/4SW1/4 Sec. 3, Twp 18N, Rge 21E, B.M. LEMHI County

Method of Determination: Visual Inspection.

2.

<u>PLACE OF USE:</u>			DOMESTIC																
Twp	Rge	Sec	NE				NW				SW				SE				
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>Totals</u>
18N	21E	3			X						X			X		X	X		
					L 6														
18N	21E	10		X															

Method of Determination: GIS Mapping and Visual Inspection

3. Y Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
Y Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
Y Aerial Photo Attached (required for irrigation of 10+ acres).
Y 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
E0009409	Franklin	5	2821138110	Franklin	

D. FLOW MEASUREMENTS n/a

2. Measurements: none

E. FLOW CALCULATIONSX Additional Computation Sheets Attached

Measured Method: n/a

IDWR Water Use Information for 280 Households: 0.7 cfs

Theoretical calculation: 0.24 cfs

Recommended rate: 0.24 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation: n/a

 $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \text{n/a}$ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \text{n/a}$ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \text{n/a}$

2. Volume Calculations for Other Uses:

274 lots X 0.6 AF = 164.4 AF

Recommended volume: 164 AF

1.2 AF X 274 lots = 328.8 AF Combined limit for 75-7010

G. NARRATIVE/REMARKS/COMMENTS

Steelhead Bend Mutual Water Co. receives water from a well in T18N R21E Section 3 SESW Gov Lot 10. This water right adds a third point of diversion for the subdivision's water supply. Steelhead Bend developed this permit as a secondary water supply. Water use under this permit would be available if water supplied under 75-7010 proved inadequate for the increasing population in the subdivision. As of time of the field exam there were 10 residences permanently occupied. Forty-three of the lots were undeveloped. The 2004 imagery shows structures on 30 lots within the subdivision.

Water right 75-7010 is the primary water supply for the subdivision. The original pump house on the southern end of the neighborhood shelters 2 pumps in T18N R21E Section 10 NWNE Gov Lot 1. The second point of diversion for this water right is housed at the base of Galena Grade in T18N R21E Section 3 NWSE Gov Lot 7.

All of the wells feed into a common system. A 6 inch main line traverses the length of the subdivision from the southern pump to the northern booster. There is an extension line to the pump developed under this right. Four inch pipes emanate from the mainline. A 2 inch pipe takes water under highway 93, uphill to the 300 gallon expansion tank at the top of Galena Grade. According to the system operator this tank is kept full. This same booster supplies water to the residents at the top of the hill.

The new well house covered under this permit houses three 119 gallon water tanks. A check valve within the pump house moderates flow. If the pressure drops below 62 psi the pump covered under this right turns on. The pump covered under this right was not on at the time of the field exam. The operator was concerned about turning on the pump and altering the system.

The developers originally planned to build on the west side of the river; however, this land was never developed. As of the time of this report, 16 acres were irrigated under water right 75-7605.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	1/01 to 12/31	0.24 CFS	164 AF
<u>Totals:</u>		0.24 CFS	164 AF

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

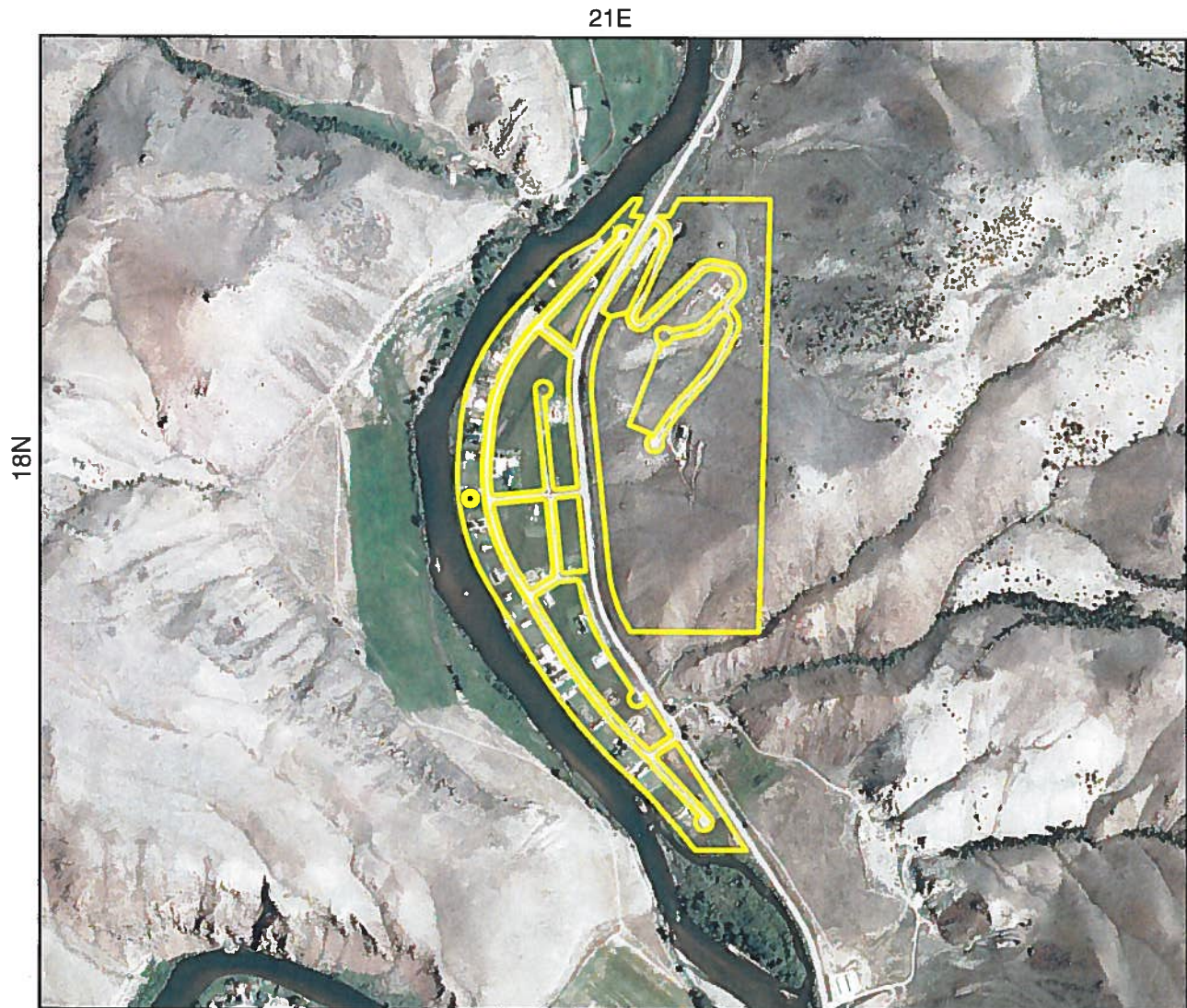
I. AUTHENTICATION

Field Examiner's Name Summit Del Date 12/19/2013

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Water Right License
75-7639

This map depicts the DOMESTIC place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.

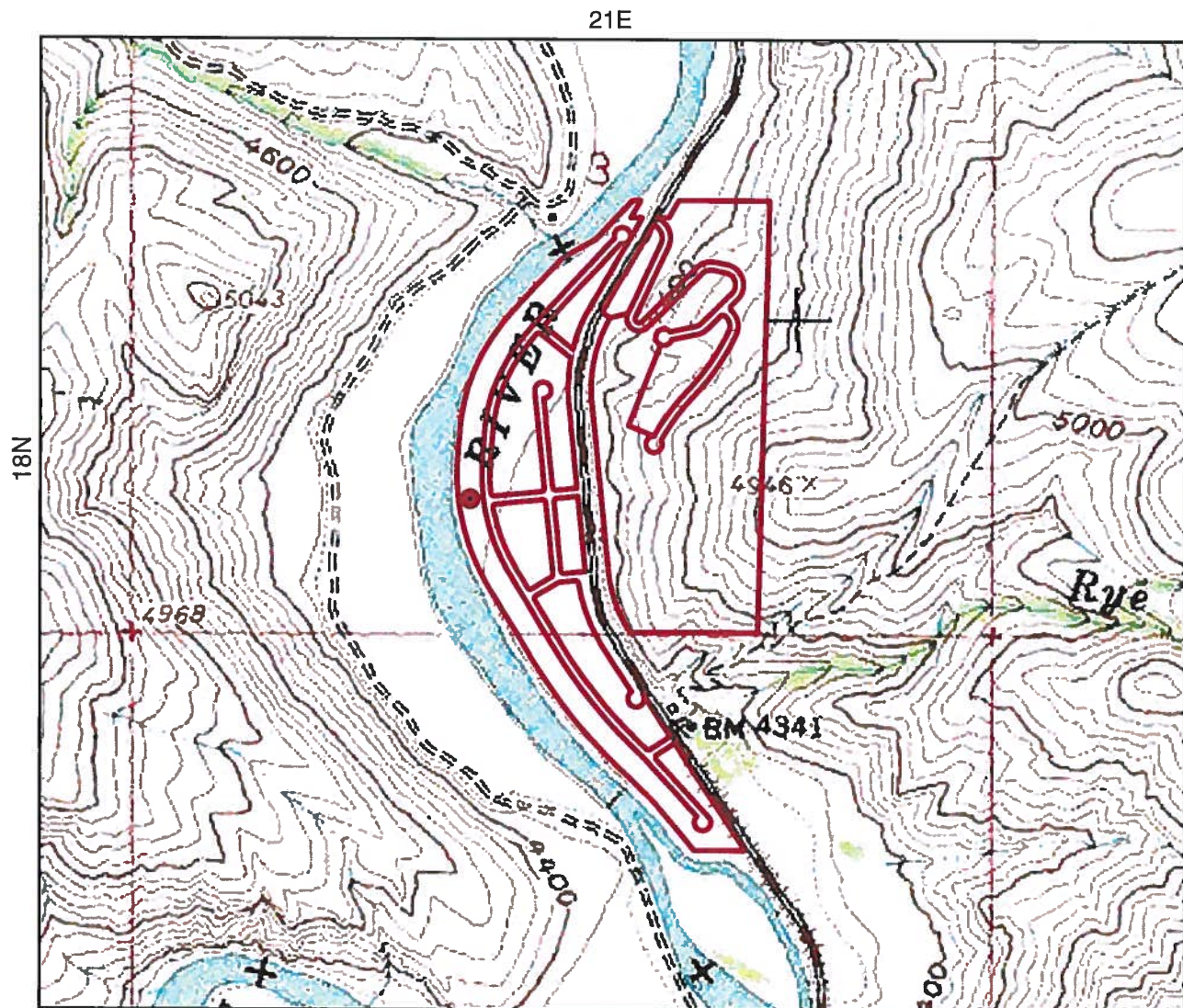


- Point of Diversion
- Place Of Use Boundary



State of Idaho
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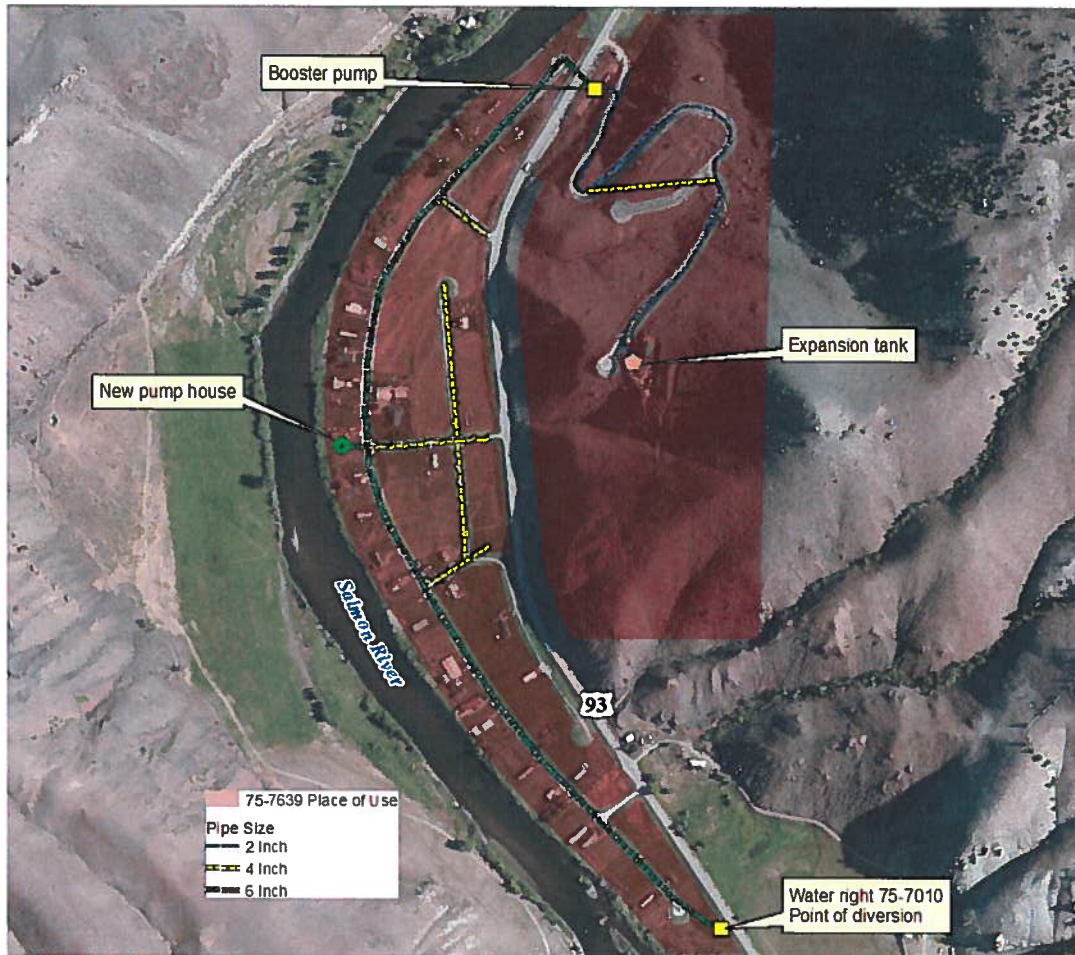
- Point of Diversion
- Place Of Use Boundary



0 0.25 0.5 Miles

No. C 154466	Due no later than Apr 30, 2013 Annual Report Form		2. Registered Agent and Office (NOT A P.O. BOX)																																			
Return to: SECRETARY OF STATE 450 N 4th STREET PO BOX 83720 BOISE, ID 83720-0080	1. Mailing Address: Correct in this box if needed. STEELHEAD BEND MUTUAL WATER CO. CAROLYN G LANNI 130 N AGATE DR SALMON ID 83467		CAROLYN G LANNI 130 N AGATE DR SALMON ID 83467																																			
NO FILING FEE IF RECEIVED BY DUE DATE			3. New Registered Agent Signature.																																			
4. Corporations: Enter Names and Business Addresses of President, Secretary, Directors, Treasurer, Vice Pres. <table border="1"> <thead> <tr> <th>Office Held</th> <th>Name</th> <th>Street or PO Address</th> <th>City</th> <th>State</th> <th>Country</th> <th>Postal Code</th> </tr> </thead> <tbody> <tr> <td>President</td> <td>Roger Lanni</td> <td>130 N. Agate Dr.</td> <td>Salmon Id</td> <td>Lemhi</td> <td></td> <td>83467</td> </tr> <tr> <td>Vice Pres.</td> <td>Wayne White</td> <td>202 Crystle Rd</td> <td>Salmon Id</td> <td>Lemhi</td> <td></td> <td>83467</td> </tr> <tr> <td>Sec/director</td> <td>Carolyn Lanni</td> <td>130 N. Agate Dr.</td> <td>Salmon Id.</td> <td>Lemhi</td> <td></td> <td>83467</td> </tr> <tr> <td>director</td> <td>Linda Andrysek</td> <td>111 N Agate dr</td> <td>Salmon Id.</td> <td>Lemhi</td> <td></td> <td>83467</td> </tr> </tbody> </table>				Office Held	Name	Street or PO Address	City	State	Country	Postal Code	President	Roger Lanni	130 N. Agate Dr.	Salmon Id	Lemhi		83467	Vice Pres.	Wayne White	202 Crystle Rd	Salmon Id	Lemhi		83467	Sec/director	Carolyn Lanni	130 N. Agate Dr.	Salmon Id.	Lemhi		83467	director	Linda Andrysek	111 N Agate dr	Salmon Id.	Lemhi		83467
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5. Organized Under the Laws of: IDAHO C 154466	6. Signature: <u>Carolyn G. Lanni</u> Date: <u>2-20-13</u> Name (type or print): <u>Carolyn G Lanni</u> Title: <u>Sec</u>																																					
Issued 02/14/2013 by SLD		129251																																				

System Diagram for Water Right 75-7639



Steelhead Bend Mutual Water Co. receives water from a well in T18N R21E Section 3 SESW Gov Lot 10. This water right adds a third point of diversion for the subdivision's water supply. Steelhead Bend developed this permit as a secondary water supply. Water use under this permit would be available if water supplied under 75-7010 proved inadequate for the increasing population in the subdivision. As of time of the field exam there were 10 residences permanently occupied. Forty-three of the lots were undeveloped. The 2004 imagery shows structures on 30 lots within the subdivision.

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THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

6

Water Right No.: 75-7639
 Examiner: Sandy Thiel
 Date of Field Exam: 8/21/2012

P/D No.:	Option 1	OPTION 2	OPTION 3	
PUMP HORSEPOWER	5	5	5	
BOOSTER HORSEPOWER	0	0	0	
PUMPING LEVEL	16	16	16	
DISCHARGE PRESSURE	40	50	60	
FRICTION	0	0	0	
RATE OF FLOW (cfs)	0.28	0.23	0.20	AVE
(gpm)	127.5	105.1	89.4	107.4

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.

Examiners Notes:

To determine lift, we used 10 feet below the static as is the standard. A back calculation on the first exam existing license on the other water right for this system confirms that the lift would be approximately 16 feet compared to the measurement made during the other licensing exam. The pressure used is a standard for domestic type systems.

State of Idaho Public Water System Enhanced Sanitary Survey

WATER SYSTEM INVENTORY INFORMATION

SURVEY DATE

PWS #

9/18/2013

(mm/dd/yyyy)

7300048

Name of Public Water System:

Steelhead Bend Unit 2

of Groundwater Sources:

2 # of Storage Facilities:

of Surface Water Sources:

0 Total Storage (gal):

Date of Last Survey:

03/02/2009

Health District: ☐ N/A

Eastern Idaho Public Health District

DEQ Region: ☒ N/A

County:

Lemhi

Number of Service Connections:

21

Residential Population:

18

Status:

☒ Approved

☐ Disapproved

Water Purchased From: ☒ N/A

PWS #:

Name:

Water Sold To: ☒ N/A

PWS #:

Name:

Owner Type:

Private

Legal Entity:

HA

Water System Classification:

☐ Community Water System

☐ Nontransient Noncommunity

☒ Transient Noncommunity - NC

Combined Sources?

☒ Yes ☐ No

If yes, ☐ Well Field

☐ Manifold/Spring Box

Sources Combined:

System Classification:

Distribution:

VSWS

Treatment: ☒ N/A

Seasonal Operation

Dates: ☒ N/A

Date Open:

Date Closed:

Responsible Charge Operator (DO):

☐ No DO

☐ N/A - Identify Operator for GW-NC PWS

Legal Owner's Name:

☒ Mr. ☐ Ms. Roger Lanni

☐ Mr. ☐ Ms. Roger Lanni

Properly Licensed?

☐ Yes ☐ No

☐ N/A-GW-NC

License Type:

☐ N/A

Mailing Address:

130 North Agate Dr.

License Number:

130 North Agate Dr.

City, State, Zip Code:

Salmon, Idaho 83467

Telephone

Day: (208) 894-2416

Night: (208) 894-2416

City, State, Zip Code:

Salmon, ID 83467

Telephone

Day: (208) 894-2416

Night: (208) 894-2416

Fax:

E-mail:

Fax:

E-mail:

Substitute Responsible Charge Operator (OP):

☐ No OP

☐ N/A for GW-NC PWS

Individuals present during inspection:

☐ Mr. ☐ Ms.

Properly Licensed?

☐ Yes ☐ No

☐ N/A-GW-NC

License Type:

☐ N/A

Name: Wayne White

Title: Board member

Mailing Address:

License Number:

Name: Glenn Hugunin

Title: EHS

City, State, Zip Code:

Telephone

Day:

Night:

Physical location of the PWS (Township, Range, Section):

E-mail:

Fax:

Samples taken at the time of survey by inspector?

☐ Yes ☒ No

If yes, what:

Survey performed by:

Name: Glenn Hugunin

Title: Environmental Health Specialist

Phone #: 208-756-2122

Agency:

☐ IDEQ

☒ Health Dept.

☐ Other:

yes no n/a unk note

☐ ☐ ☒ ☐ ☐

☐ ☒ ☐ ☐ ☐

☐ ☐ ☒ ☐ ☐

☐ ☐ ☒ ☐ ☐

☐ ☐ ☒ ☐ ☐

General Information

1. Have previously required Significant Deficiencies & Deficiencies been addressed?

2. Have modifications been made to the PWS since the last ESS?

3. If yes, are the modifications considered to be significant?

4. If yes, were plans and specs submitted to and approved by DEQ?

5. Are there any known issues or problems with equipment or operation of the PWS

that could negatively effect the quality of the water produced? (If yes, comment)

Comments:

Sanitary Survey Index

Modules used:

☒ General Information 1

☒ Groundwater Source 2

☐ Storage

☒ Hypopneumatic Tanks 1

☒ Distribution 1

☒ Pumping 1

☒ Financial Capacity 1

☒ Managerial Capacity 1

☐ Treatment Application

☐ Disinfection

☐ Notes

☒ Photo Log 1

Total Modules 9

GROUNDWATER SOURCE - PG.1

SURVEY DATE

PWS #

A separate sources form must be filled out for each groundwater source in the PWS.

9/18/2013

(mm/dd/yyyy)

7300048

Tag #:	Common Name of Source:	Source:	Is this Source Treated?
(Secondary)	Steelhead Bend Unit 2 (Sec	☒ Well ☒ Manifold ☐ Spring ☐ Spring Box	☐ Yes ☒ No
Physical Location: Center of subdivision			Treatment Objective: ☒ N/A
			Treatment Types: ☒ N/A (Identify Treatment Train in Comments)
Is there a well log for the groundwater source? ☐ Yes ☐ No ☐ N/A ☒ Unk			
Pump Capacity (GPM)	Casing Size (in)	Date Drilled:	Well Depth (Ft)
☒ Unk	☐ Unk	☒ Unk	☒ Unk
Is the Casing Screened?	Screen Depth (Ft):	Is the Casing Perforated?	Perforation Depth (Ft):
☐ Yes ☐ No ☒ Unk	☐ N/A ☒ Unk	☐ Yes ☐ No ☒ Unk	☐ N/A ☒ Unk
From:			
To:			
Latitude (Decimal):			
Longitude (Decimal):			

All Sources

1. This source is:

- ☐ Active ☐ Proposed
☐ Inactive ☒ Emergency (<60 days per year)

yes	no	n/a	unk	note
☐	☐	☐	☒	☐

2. Has there been a Source Water Assessment conducted for the source?

Date:

3. Has a final GWUDI determination been done for this source?

Date: ☐ N/A 4-36 if source is a spring

yes	no	n/a	unk	note
☒	☐	☐	☐	☐

☐ Significant ☐ Deficiency

WELL INFORMATION

4. Is the well on a separate lot that is large enough to provide a minimum distance of 50 feet between the well and the nearest property line? (applicable if constructed after 11/1/77)

Are the following minimum distances from the PWS well being met?

- | yes | no | n/a | unk | note |
|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| ☐ | ☐ | ☐ | ☒ | ☐ |
| ☐ | ☐ | ☐ | ☒ | ☐ |
| ☐ | ☐ | ☐ | ☒ | ☐ |
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| ☒ | ☐ | ☐ | ☐ | ☐ |
5. - Gravity sewer line.....50 Ft.
6. - Pressure sewer line.....100 Ft.
7. - Individual home septic tank.....100 Ft.
8. - Individual home disposal field.....100 Ft.
9. - Individual home seepage pit.....100 Ft.
10. - Privies.....100 Ft.
11. - Livestock.....50 Ft.
12. - Canals, streams, ditches, lakes, ponds and tanks used to store nonpotable substances.....50 Ft.
13. Are pesticides, herbicides, fertilizers, portable containers of petroleum products, or other toxic or hazardous materials stored on the well lot?
14. Are pesticides, herbicides, or fertilizers applied to the well lot?
15. Is the well in a pit? If yes, Date constructed:
16. Was the well that is located in a pit installed after 11/5/64?
17. If pit was installed prior to 11/5/64 - Has DEQ granted an exception and does the pit have water tight construction of pit walls and floor, a floor drain and an acceptable pit cover?
18. Is the well protected from unauthorized entry? (Recommended)
19. Does the casing extend a minimum of 18 inches above the final ground surface and/ or 12 inches above the pump house floor?
20. Is the well vented with the open end of the vent screened and terminated downward at least 18 inches above the final ground surface?
21. Is the well provided with a sanitary cap that prevents surface water entry?
22. Is the well cased and sealed in such a manner that surface water cannot enter the well?

COMMENTS:

(Please indicate question number)

This is the secondary well which is activated if the primary well fails. No. 19 The casing is about 6" above the floor but no evidence of flooding. No. 20 The well is not vented.

GROUNDWATER SOURCES - PG. 2		Common Name elhead Bend Unit 2 (prim)	SURVEY DATE 9/18/2013	PWS # ID7300015																																																																										
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:5%;">yes</th> <th style="width:5%;">no</th> <th style="width:5%;">n/a</th> <th style="width:5%;">unk</th> <th style="width:5%;">note</th> <th></th> </tr> <tr> <td>☒</td> <td>☒</td> <td>☐</td> <td>☐</td> <td>☒</td> <td>WELL INFORMATION (cont.)</td> </tr> </table>			yes	no	n/a	unk	note		☒	☒	☐	☐	☒	WELL INFORMATION (cont.)	COMMENTS: (Please indicate question number) No.23, 31 There is a threaded sample tap /AVB.																																																															
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IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT 58084
Use Typewriter or Ballpoint Pen

Office Use Only
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 1/4 1/4
Lat: _____ Long: _____

1. DRILLING PERMIT NO. 75-96-E0050-000
Other IDWR No. 75-07639

2. OWNER: Steelhead Bend Water Co
Name HC 61 Box 48C
Address Salmon State ID Zip 83467

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

North ☒ or South ☐
East ☒ or West ☐
Twp. 18 Rge. 21 Sec. 3
Gov't Lot _____ County _____
Lat: _____ Long: _____
Address of Well Site Elk Bend Hwy City Salmon
Lt. 40 Blk. _____ Sub. Name _____

4. USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other multiple

5. TYPE OF WORK check all that apply (Replacement etc.)

☐ New Well ☐ Modify ☐ Abandonment ☐ Other _____

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
<u>BEAUMONT</u>	<u>0</u>	<u>2</u>	<u>500</u>		<u>TEMP CASING</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 62
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8</u>	<u>1</u>	<u>62</u>	<u>250</u>	<u>STEEL</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method None
☐ Screens Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

6 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: Sealing well seal

11. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time
<u>180</u>		<u>62</u>	<u>2 HRS</u>

Water Temp. 52.0 Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered 18

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>12</u>	<u>0</u>	<u>6</u>	<u>TOP SOIL</u>	☒	☐
<u>6</u>	<u>20</u>	<u>20</u>	<u>BOULDERS GRAVEL</u>	☒	☐
<u>8</u>	<u>20</u>	<u>40</u>	<u>BOULDERS BIG HARD</u>	☒	☐
<u>8</u>	<u>40</u>	<u>62</u>	<u>BOULDERS GRAVEL SAND</u>	☒	☐

RECEIVED
DEC 06 1996
Department of Water Resources
RECEIVED
NOV 26 1996
Department of Water Resources
Eastern Region
MICROFILMED
FEB 05 1997
Completed Depth 62 (Measurable)
Date: Started 11/7/96 Completed 11/8/96

13. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name Harbor Drilling Firm No. 6430

Firm Official Clay Fisher Date 11/11/96

and Supervisor or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

PHOTOGRAPHER AND DATE OF PHOTOS: Sandy Thiel, August 21, 2012
FILE NUMBER 75-7639



Salmon River in the background

Well house located in the middle of
the Steelhead Bend Subdivision
looking west

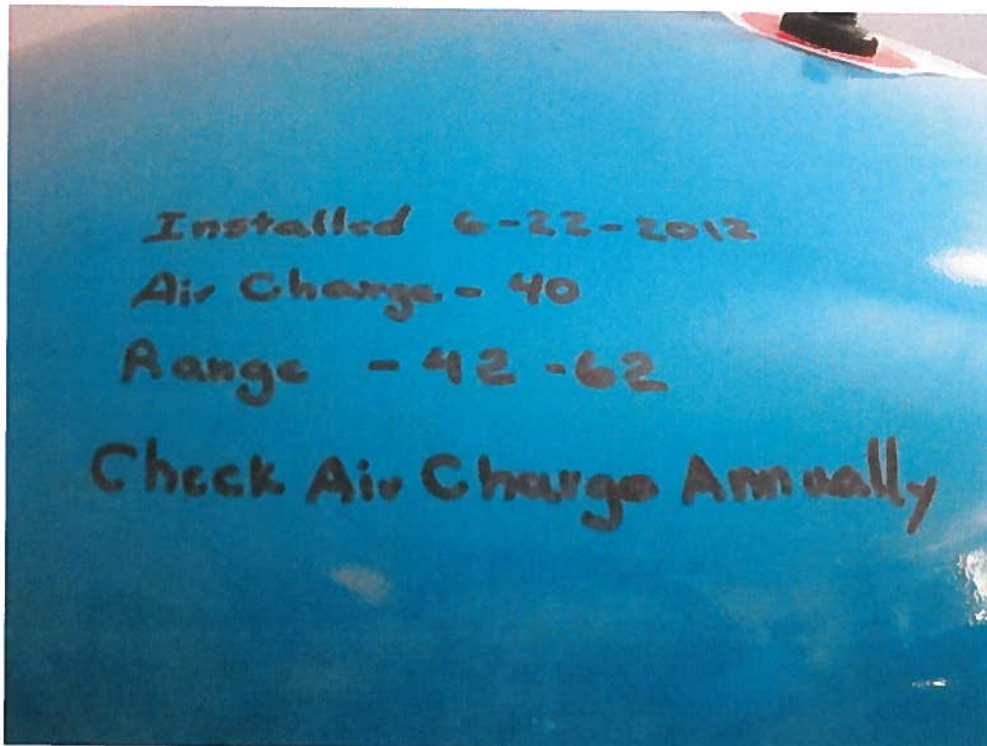
Foreground arrow shows the pipe
location



Tanks inside the new pump
house



Gage in pump house



Tank information



Tank information





Inside pump house for
water right 75-7010



Location of the northern booster pump at the base of Galena Grade



Inside the booster pump house