

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 75-7588

Exam Date: 8/8/2012

1. Current Owner: BILL GATTUNG
88 LOIS LN
SALMON ID 83467
(208)756-3704
2. Accompanied by: Jana Gattung
Phone No: 208.756.3704
Address: 88 Lois Lane
Relationship to Permit Holder: Bill's daughter and the current land owner
3. SOURCE TRIBUTARY
GATTUNG SLOUGH SALMON RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 75-4062 and 14736
2. Other water rights with the same point of diversion: none

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

GATTUNG SLOUGH L1 SE1/4SE1/4 Sec. 12, Twp 20N, Rge 21E, B.M. LEMHI County

Method of Determination: GPS and visual inspection

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	
20N 21E 12													9.6			13.0	22.6
20N 22E 7									2.1	.3	25.0					L 1	27.4
									L 9		L 3						
Total Acres:	50																

Method of Determination:

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. none

Well or Diversion
ID No.***Motor Make****Hp****Motor Serial No.****Pump Make****Pump Serial No. or Discharge**
Size

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Serial No.
Flow Tracker	P2317

2. Measurements: Total discharge 3.47 cfs

(See attachment)

E. FLOW CALCULATIONS

Measured Method: Flow Tracker

The permit allows 1.3 cfs50 acres X 0.02 = 1.0 cfsRecommended diversion amount for irrigation of 50 acres: 1.0 cfs**F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 50 \text{ acres} \times 3.5 = 175$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 1 \times 214 \times 1.9835 = 424.5$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 175 \text{ AF}$$

2. Volume Calculations for Other Uses: none**G. NARRATIVE/REMARKS/COMMENTS**

A headgate on Gattung Slough in T20N R21E Section 12 SESE provides irrigation water for 50 acres between Williams Creek and Fife Ditch. Water from Williams Creek flows out of a canyon approximately 1/3 of a mile to the northeast of the headgate and flows across or under Rainbow Ditch. Williams Creek branches into two channels approximately 560 feet from the headgate. Some of the water flows south into Gattung Slough. The other branch flows to the northeast. Eventually the two channels connect about 850 feet downstream from the headgate. Water from Rainbow Ditch may contribute to the flow in Williams Creek below their intersection near the entrance to the canyon. Rainbow Ditch water does enter Gattung Slough at a point shown in the lower left corner. Fife Ditch does not contribute irrigation water to the 50 acres.

The headgate controls Gattung Slough water for flood irrigation. A primary channel flows from the headgate to the north, northeast. Other channels branch from this primary conduit throughout the 50 acres.

A condition in the water right permit indicates that a straight length conduit or ditch be installed to measure water in connection with the right. The headgate meets these criteria. A second condition specifies that a lockable device also be installed. The headgate construction allows for a "T" handle that could be chained and locked. The headgate is adjustable and allows for the control of water flow.

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>
IRRIGATION	04/01 to 10/31	1.000 CFS	
<u>Totals:</u>		1.000 CFS	

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

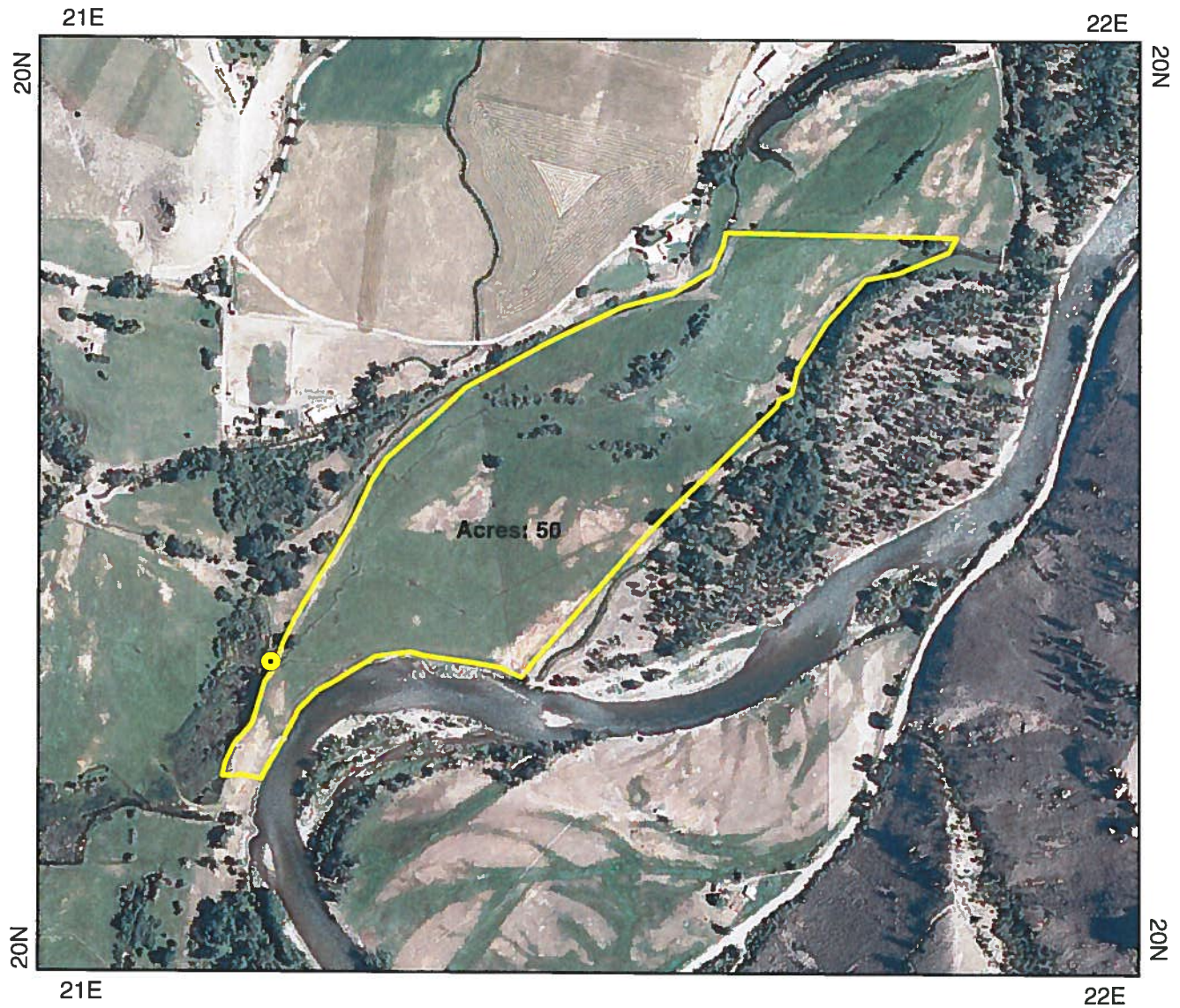
I. AUTHENTICATION

Field Examiner's Name Sandra Lee Hill Date 2/1/2013

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Water Right License
75-7588

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



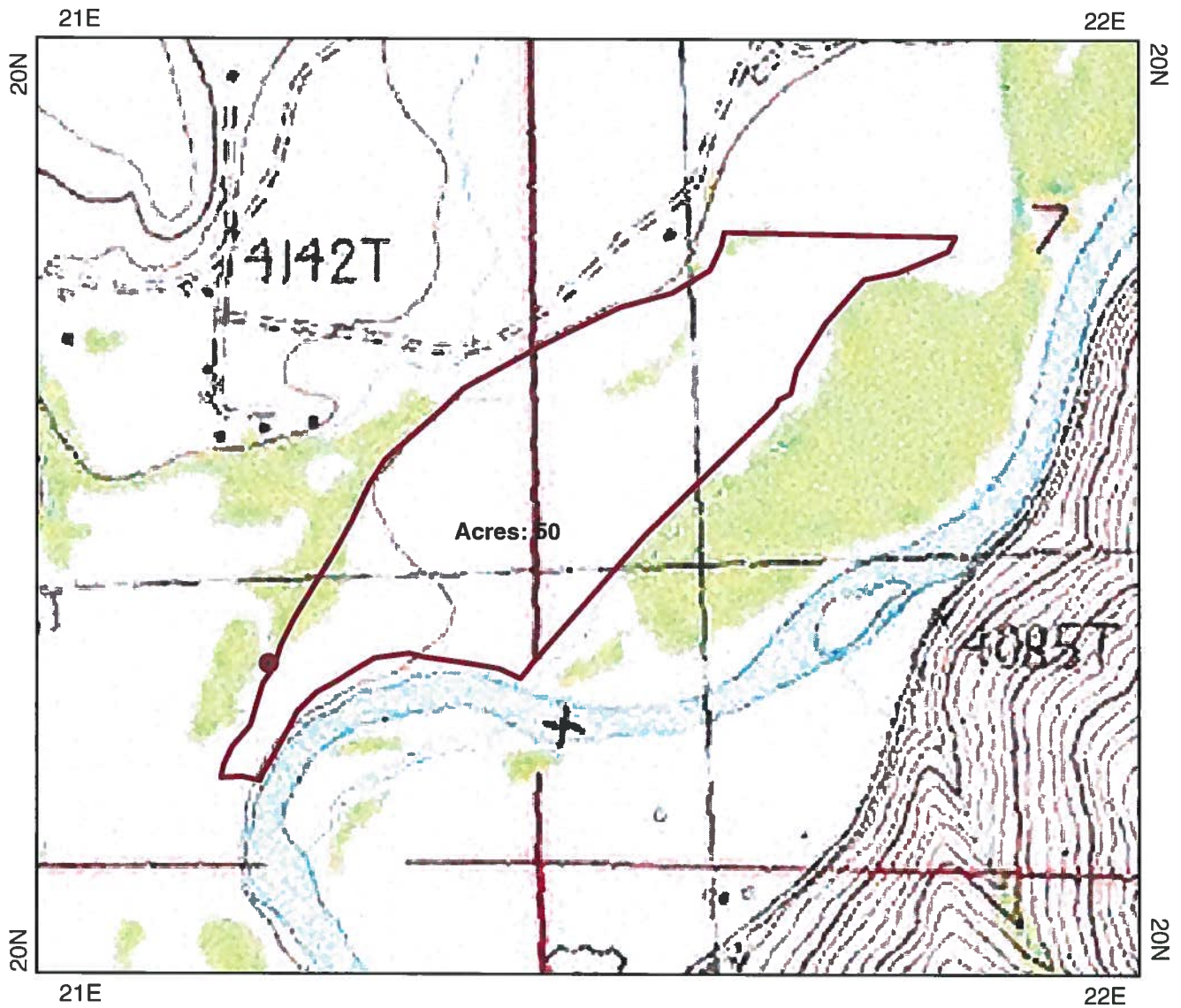
- Point of Diversion
- Place Of Use Boundary



0 0.25 0.5 Miles

State of Idaho
Department of Water Resources
Water Right License
75-7588

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

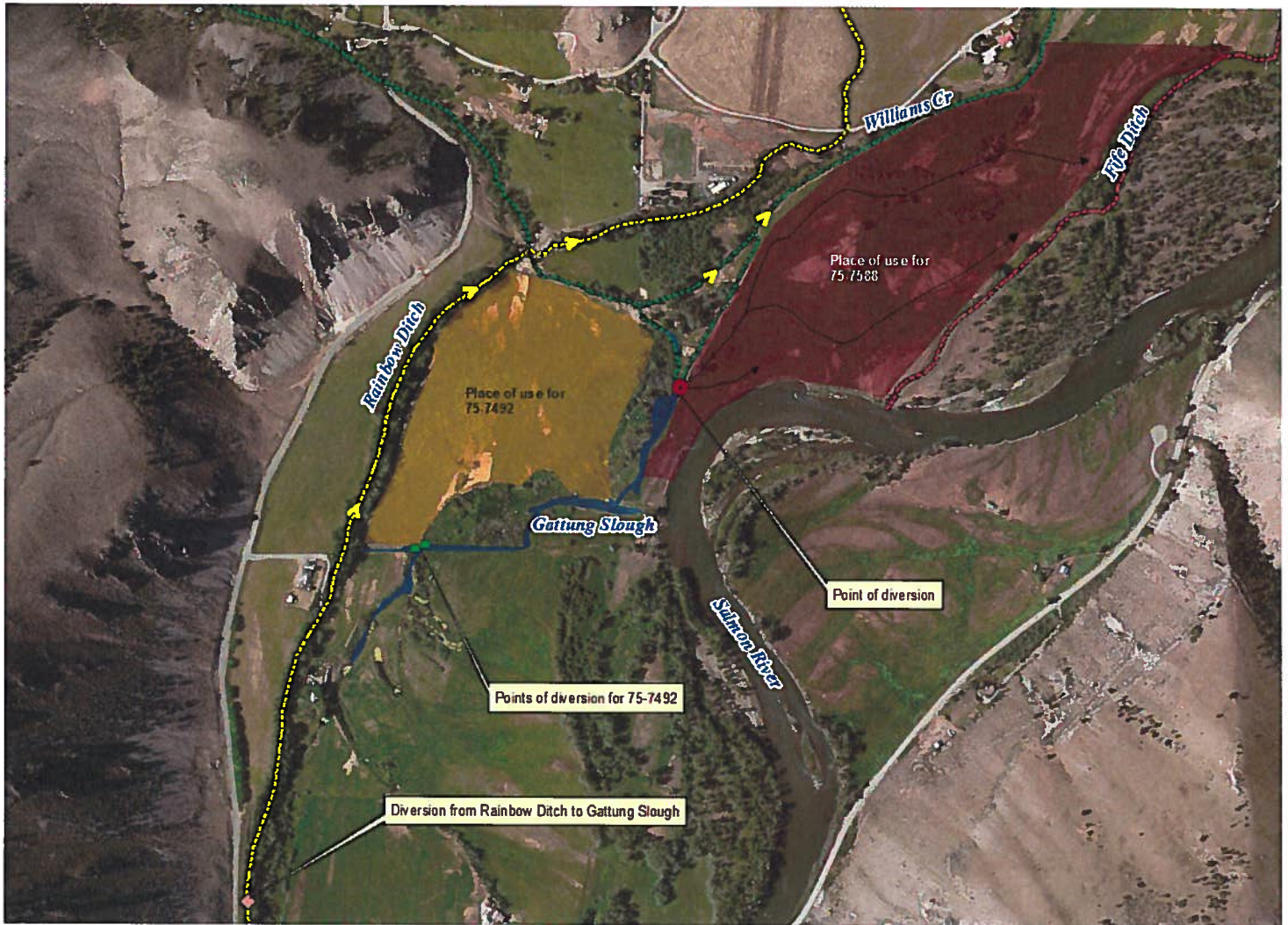


- Point of Diversion
- Place Of Use Boundary



0 0.25 0.5 Miles

Water Distribution System Water Right 75-7588



A headgate on Gattung Slough in T20N R21E Section 12 SESE (shown above as a red dot) provides irrigation water for 50 acres (shaded red above) between Williams Creek and Fife Ditch. Water from Williams Creek flows out of a canyon approximately 1/3 of a mile to the northeast of the headgate and flows across or under Rainbow Ditch. Williams Creek branches into two channels approximately 560 feet from the headgate. Some of the water flows south into Gattung Slough. The other branch flows to the northeast. Eventually the two channels connect about 850 feet downstream from the headgate. Water from Rainbow Ditch may contribute to the flow in Williams Creek below their intersection near the entrance to the canyon. Rainbow Ditch water does enter Gattung Slough at a point shown in the lower left corner. Fife Ditch does not contribute irrigation water to the 50 acres.

The headgate controls Gattung Slough water for flood irrigation. A primary channel flows from the headgate to the north, northeast. Other channels branch from this primary conduit throughout the 50 acres (shown as black lines, ending with arrows).

A condition in the water right permit indicates that a straight length conduit or ditch be installed to measure water in connection with the right. The headgate meets this criteria. A second condition specifies that a lockable device also be installed. The headgate construction allows for a "T" handle that could be chained and locked. The headgate is adjustable and allows for the control of water flow.

Historically both 75-7492 and 75-7588 belonged to Bill Gattung. Currently, they are held by his children.

Discharge Measurement Summary

Date Generated: Fri Jan 25 2013

File Information

File Name GUTTUNG.WAD
Start Date and Time 2012/08/08 11:49:37

Site Details

Site Name
Operator(s) MM

System Information

Sensor Type FlowTracker
Serial # P2317
CPU Firmware Version 3.5
Software Ver 2.30
Mounting Correction 0.0%

Units (English Units)

Distance ft
Velocity ft/s
Area ft²
Discharge cfs

Discharge Uncertainty

Category	ISO	Stats
Accuracy	1.0%	1.0%
Depth	0.2%	1.4%
Velocity	1.4%	2.3%
Width	0.2%	0.2%
Method	2.7%	-
# Stations	5.1%	-
Overall	6.0%	2.9%

Summary

Averaging Int. 40 # Stations 10
Start Edge LEW Total Width 3.900
Mean SNR 27.1 dB Total Area 3.730
Mean Temp 14.00 °F Mean Depth 0.956
Disch. Equation Mid-Section Mean Velocity 0.9311
Total Discharge 3.4725

Measurement Results

St	Clock	Loc	Method	Depth	%Dep	MeasD	Vel	CorrFact	MeanV	Area	Flow	%Q
0	11:49	2.70	None	0.900	0.0	0.0	0.0000	1.00	1.1614	0.180	0.2090	6.0
1	11:49	3.10	0.6	1.100	0.6	0.440	1.1614	1.00	1.1614	0.440	0.5110	14.7
2	11:51	3.50	0.6	1.200	0.6	0.480	1.2162	1.00	1.2162	0.480	0.5837	16.8
3	11:52	3.90	0.6	1.100	0.6	0.440	1.3389	1.00	1.3389	0.440	0.5891	17.0
4	11:53	4.30	0.6	1.050	0.6	0.420	1.2064	1.00	1.2064	0.420	0.5065	14.6
5	11:55	4.70	0.6	1.000	0.6	0.400	1.0253	1.00	1.0253	0.400	0.4100	11.8
6	11:56	5.10	0.6	1.050	0.6	0.420	0.8517	1.00	0.8517	0.420	0.3576	10.3
7	11:57	5.50	0.6	1.000	0.6	0.400	0.4603	1.00	0.4603	0.400	0.1841	5.3
8	11:59	5.90	0.6	1.000	0.6	0.400	0.2208	1.00	0.2208	0.550	0.1215	3.5
9	11:59	6.60	None	0.000	0.0	0.0	0.0000	1.00	0.0000	0.000	0.0000	0.0

Rows in italics indicate a QC warning. See the Quality Control page of this report for more information.

Discharge Measurement Summary

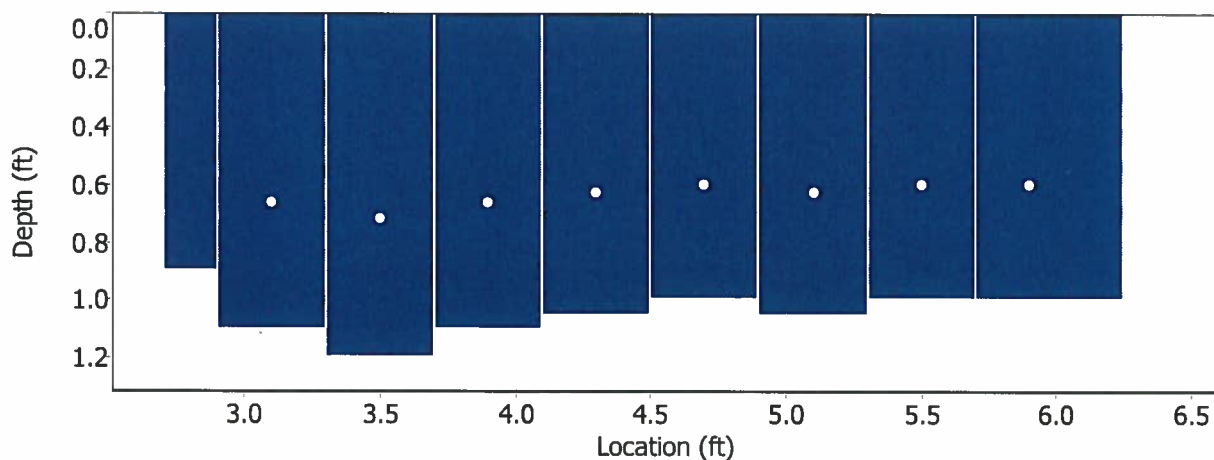
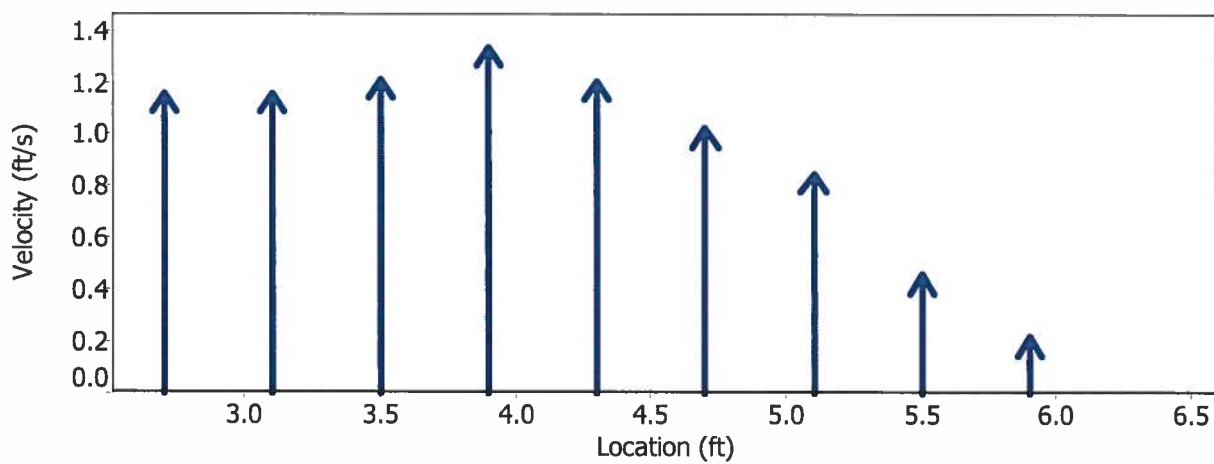
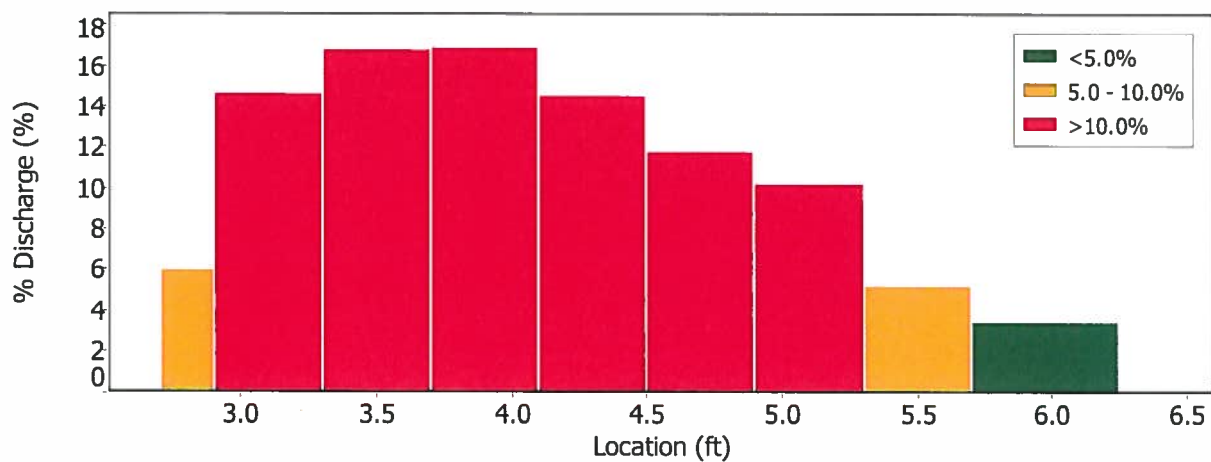
Date Generated: Fri Jan 25 2013

File Information

File Name GUTTUNG.WAD
Start Date and Time 2012/08/08 11:49:37

Site Details

Site Name
Operator(s) MM



Discharge Measurement Summary

Date Generated: Fri Jan 25 2013

File Information

File Name GUTTUNG.WAD
Start Date and Time 2012/08/08 11:49:37

Site Details

Site Name
Operator(s) MM

Quality Control

No Quality Control warnings

Discharge Measurement Summary

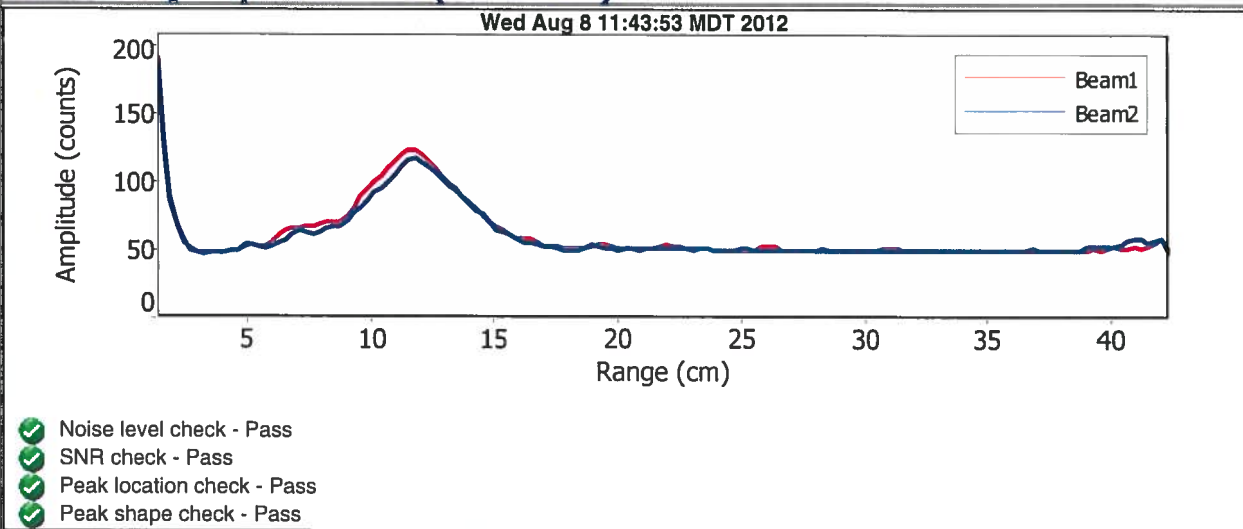
Date Generated: Fri Jan 25 2013

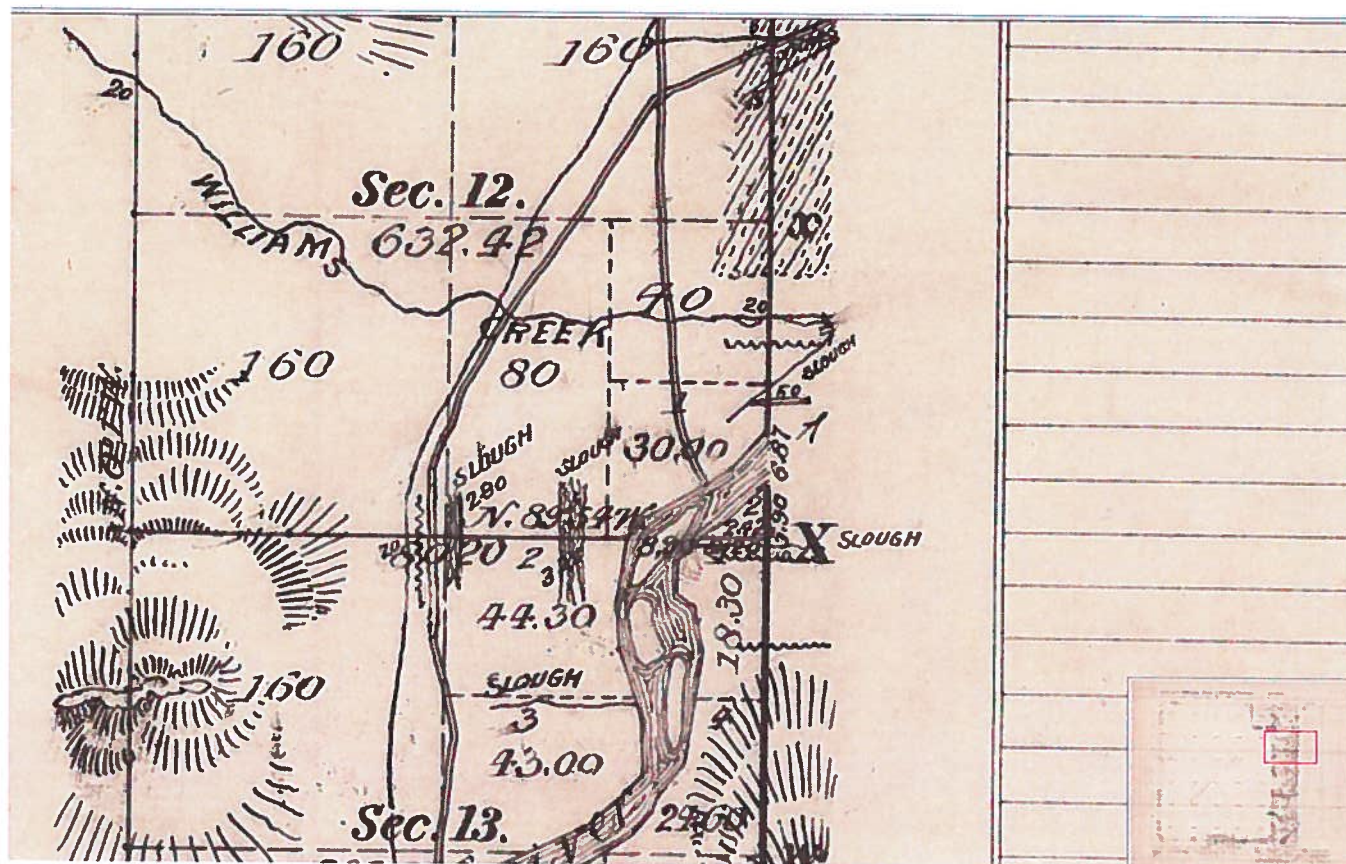
File Information

File Name GUTTUNG.WAD
Start Date and Time 2012/08/08 11:49:37

Site Details

Site Name
Operator(s) MM

Automatic Quality Control Test (BeamCheck)

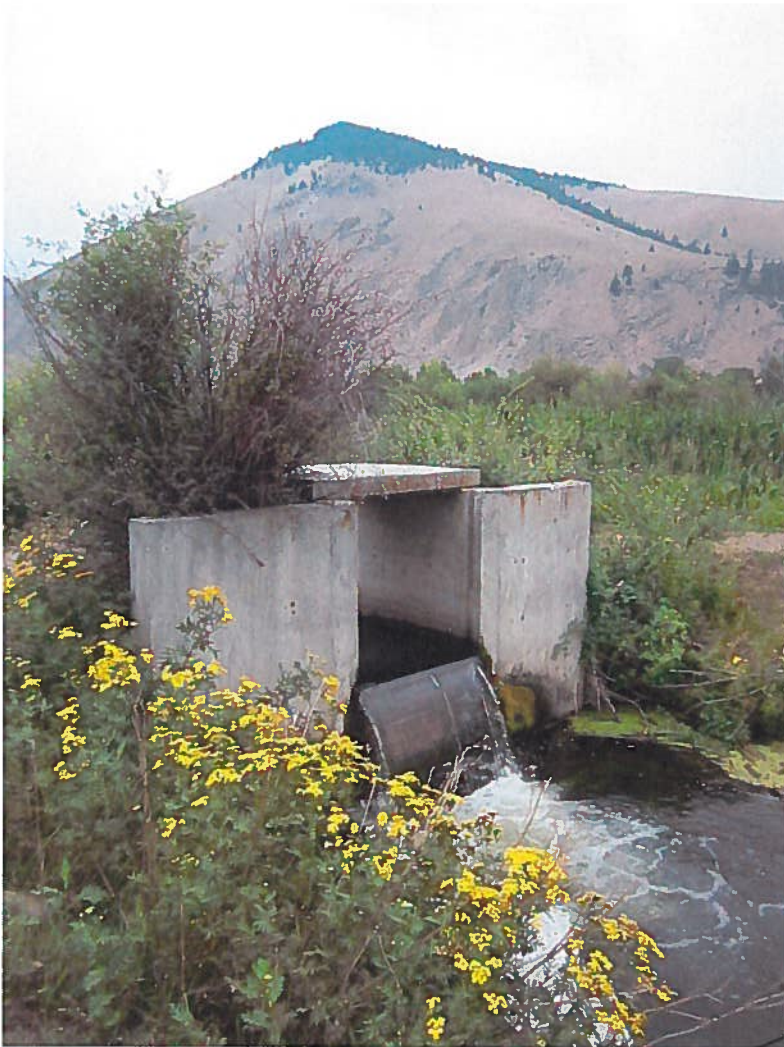


The 1892 survey shows a confluence Williams Creek and an unnamed slough. The location of the slough coincides with the currently named Gattung Slough.

The image above is a screen shot of the survey plat from the following website:

http://www.glorerecords.blm.gov/details/survey/default.aspx?dm_id=40038&sid=vkgbtb4f.mdb#surveyDetailsTabIndex=1

PHOTOGRAPHER AND DATE OF PHOTOS: Sandy Thiel, August 8, 2012
FILE NUMBER 75-7588



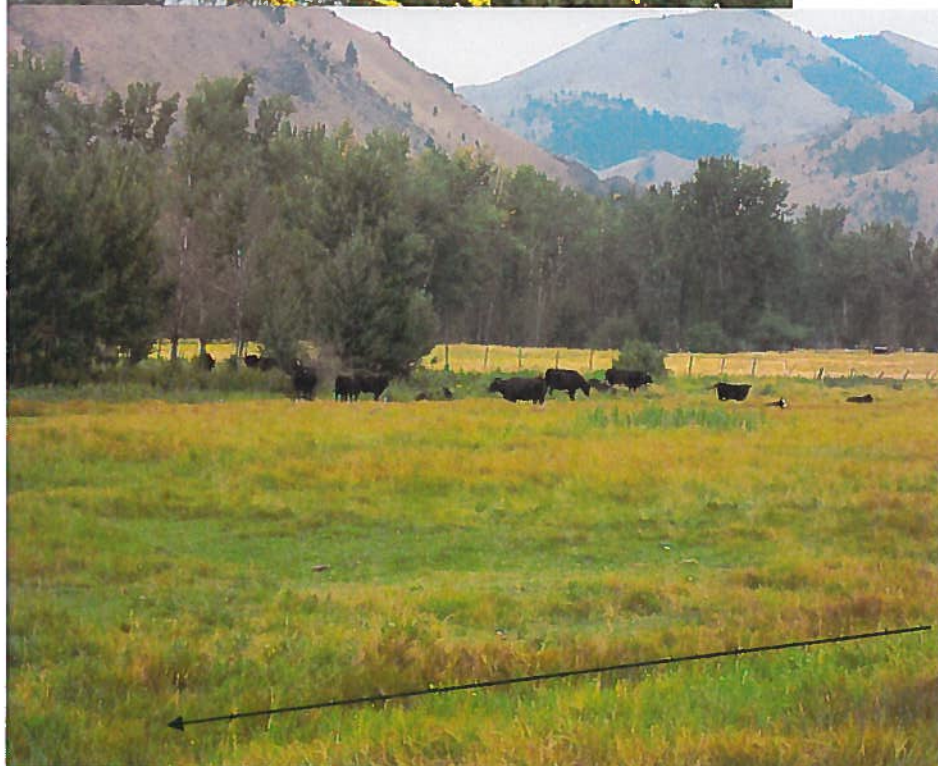
This photo shows the headgate that controls the flow from Gattung Slough

Gattung Slough, above the headgate
The Salmon River is visible to the far left





Williams Creek below the headgate



This photo shows the land irrigated under this water right. The arrow indicates the direction of flow in one of the flood irrigation channels

The pasture is southeast of the headgate



Looking west, southwest along Williams Creek toward the direction of the headgate
The arrow shows the location of the headg