

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-31891

Exam Date: 5/15/2018

1. Current Owner:
CLARRISSA GARRIGUS 2845 S AVONDALE AVE NAMPA ID 83686-1410 (208) 577-8502 And
SCOTT GARRIGUS 2845 S AVONDALE AVE NAMPA ID 83686-1410 (208) 577-8502

2. Accompanied by: Josh Kling (Foreman) and John Hofferd (Security Interest holder)
Phone No: (208) 866-6082
Address: 24520 BOISE RIVER RD, PARMA, ID 83660
Relationship to Permit Holder: Foreman and security interest holder

3. **SOURCE:**
UNNAMED DRAIN

TRIBUTARY:
BOISE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: **63-32839** and **63-33078**
2. Other water rights with the same point-of-diversion: **63-32838**, **63-32839**, **63-32840**, **63-33078**, **63-34457**, and **63-4595**

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

UNNAMED DRAIN L1 (NE¼NE¼) Sec. 6, Twp 04N, Rge 04W, B.M. CANYON County

Method of Determination: Field exam and aerial imagery

2.

PLACE OF USE: WILDLIFE STORAGE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	05W	36													X				

PLACE OF USE: WILDLIFE

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
05N	05W	36	X	X	X	X									X				
05N	05W	36	X L 1	X L 2		X L 1													

Method of Determination: Field exam and aerial imagery

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
NA	NA	NA	NA	NA	NA

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Velocimeter	Acoustic Doppler	SonTec Flow Tracker	NA	NA	NA	NA

2. Measurements: A FlowTracker was used to measure the unnamed ditch flow at the POD and helped obtain a velocity through the 21.5" pipe that feeds the WILDLIFE STORAGE area.

E. FLOW CALCULATIONS

Measured Method:

 X Additional Computation Sheets Attached

See the attached cartoon of the 21.5" pipe and Discharge Measurement Summary for calculations

F. VOLUME CALCULATIONS1. Volume Calculations for WILDLIFE:

V_R = IDWR does not have a policy/standard volume for beneficial use developed under WILDLIFE use.

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Wildlife season}) \times 1.9835 = 5.00 \text{ cfs} \times 365 \text{ days} \times 1.9835 = 3,619.9 \text{ AF or } \mathbf{3,620 \text{ AF}}$

$V = \text{Smaller of } V_R \text{ and } V_{D.R.} = \mathbf{3,620 \text{ AF}}$

2. Volume Calculations for WILDLIFE STORAGE:

V_R = IDWR does not have a policy/standard volume for beneficial use developed under WILDLIFE use. However, based on the pond capacity and annual seepage/evaporation losses, a calculated volume is accomplished. (Pond Capacity) + seepage loss + evaporation loss = 35.2 AF pond capacity + 45.0 AF seepage loss + 38.3 AF evaporation loss = **118.5 AF**

$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Wildlife season}) \times 1.9835 = 5.00 \text{ cfs} \times 365 \text{ days} \times 1.9835 = 3,619.9 \text{ AF or } \mathbf{3,620 \text{ AF}}$

$V = \text{Smaller of } V_R \text{ and } V_{D.R.} = \mathbf{118.5 \text{ AF or } *119 \text{ AF per reporting standards.}}$

****Recommendations are limited to the permitted volume of 65.0 AF. A new WR application is necessary to add the remaining 54 AF for Wildlife Storage.***

G. NARRATIVE/REMARKS/COMMENTS

Permit No. 63-31891 authorizes a diversion rate of 5.00 cfs for Wildlife (5.0 cfs), Wildlife Storage (65 AF), Water Quality Improvement (5.00 cfs), and Water Quality Improvement Storage (65.0 AF) purposes. A field exam was conducted by WRAs Cody Parker and Aaron Skinner on May 15, 2018, who were accompanied by Josh Kling, Ranch Foreman and John Hoffer, Security Interest Partner.

BACKGROUND:

The purpose of this right is to improve the quality of water of the unnamed irrigation drain prior to it entering the Boise River by running water through a restored historical wetland (application). The field exam revealed that the water quality improvement and water quality improvement storage components have not been developed. NRCS established a "Conservation Easement Boundary" around the property, but water quality efforts have not taken place. Therefore, recommendations will only include wildlife and wildlife storage use.

Additions were made to the wildlife POU boundary relative to how it was developed. Everything was developed as permitted with the addition of the NESWNE corner acreage. An amendment is necessary to show this change in the POU boundary.

System Description:

Water is diverted through a slide gate from an unnamed drain (stream) and conveyed to the POU via a dirt ditch/drain. There are three options available to divert water from the conveyance system; 1) concrete ditch that runs northeast along the property line, 2) a dirt ditch that runs parallel with the concrete ditch until the dirt road that separates the NESE and SENE QQs, and 3) a 21.5" diameter PVC pipe that feeds the storage pond. All water is returned to the Boise River on the north end of the property as outlined on the system diagram map.

Syphon tubes are used to flood the land encompassed by the POU boundary. Corrugated pipes return excess and flow through water back into the various ditches. The delivery system and diversion are gravity fed. Water is diverted to storage at various rates throughout the year. As the pond/canal fills, water flows into the surrounding area. Max depth was measured at the concrete control structure's high water mark located at 43°43'36.76"N, 116°52'18.96"W.

Diversion Rate and Volume:

The permitted rate of 5.00 cfs was verified to be accurate and recommended to licensing. The unnamed ditch/drain capacity was checked during the field exam. The flow rate at the POD was calculated to be 12.34 cfs and suitable to carry existing WRs and the permitted 5.00 cfs for this right. Below is the list and totals for each right using the same POD and conveyance:

63-32838 => 0.22 cfs
 63-34457=> 0.44 cfs
 63-33078 => 0.74 cfs

63-4595 => 0.52 cfs
 63-32839 => 1.81 cfs
 63-32840 => 0.13 cfs

Total = 3.86 cfs + 5.00 cfs (this right) = 8.86 cfs

The diversion to storage was calculated measuring the water velocity at the discharge point and computing the area of the pipe as shown on the attached cartoon. This produced a diversion to storage of 7.82 cfs.

Volume was calculated accordingly in Section F of this report. Pond analysis was completed using the surface area of 17.6 acres identified during the field exam, average pond depth of 2' (5' max depth X 0.4), evaporation loss from the "Parma" AgriMet station, and seepage was identified from the NRCS Web Soil Survey and classified as SC. The storage was explained to be thigh deep at the pond/canal edge and gradually shallows as you distance from the main pond/canal. Although the max depth is potentially a different soil class, the bulk of the pond is <2' deep and the SC classification is a better representation. Considering these parameters, the total volume required is 118.5 AF. As noted in Section F, a new application will be necessary to add anything over the permitted 65 AF for storage.

The wildlife component will be recommended at 3,620 AF as described in Section F.

Ownership:

Current Canyon County taxlot data was used to verify land ownership and shows Scott Garrigus as the parcel owner matching the permit.

Overlap:

The POD analysis identified WR Nos. 63-32838, 63-32839, 63-32840, 63-33078, 63-34457, and 63-4595. Ditch capacity is sufficient to deliver the overlapping rights, so no limits will be recommended relative to the POD.

POU analysis identified WR Nos. 63-32839 and 63-33078 as overlapping. Both overlapping rights are for irrigation. Wildlife storage POU was flooded as a pond during the development period (2006). At the time of the exam, the fields were irrigated as crop land. The unnamed ditch can adequately delivery all appropriated water. Land owners alternate land use different years, so no limit to wildlife season of use is recommended.

Conditions:

Conditions 26A and 106 were removed and not forwarded to licensing. Condition 121 was updated to 103 and forwarded to licensing. Conditions 01J was removed and language was added "After specific notification by the Department..." per amended order dated 7/18/2007. Conditions R05 and 004 are forwarded to licensing. Condition 220 and 219 were added to specify storage parameters and forwarded to licensing.

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

H. RECOMMENDATIONS

1. Recommended Amounts

BENEFICIAL USE	PERIOD OF USE	DIVERSION RATE	ANNUAL VOLUME
WILDLIFE STORAGE	01/01 to 12/31		65.0 AF
DIVERSION TO STORAGE	01/01 to 12/31	5.00 CFS	
WILDLIFE	01/01 to 12/31	5.00 CFS	3,620 AF
	<u>Totals:</u>	5.00 CFS	3,620 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

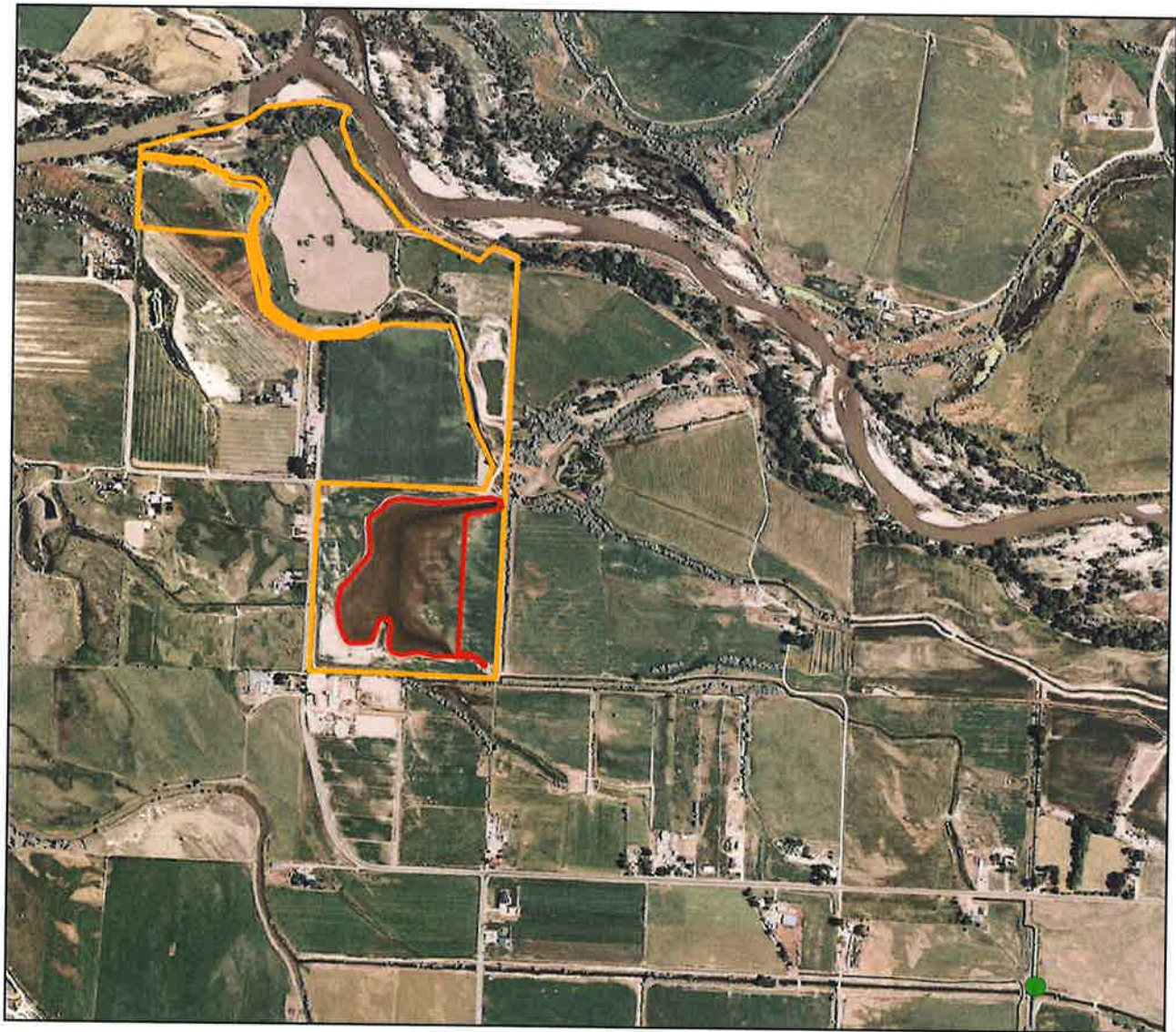
☐ Change P.U. as reflected above ☒ Add P.U. as reflected above ☐ None

I. AUTHENTICATION

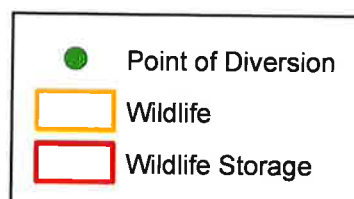
Field Examiner's Name  Date 7/5/2018
 Reviewer  Date 7/11/18

State of Idaho
Department of Water Resources
Point of Diversion and Place of Use
Water Right Permit No. 63-31891

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

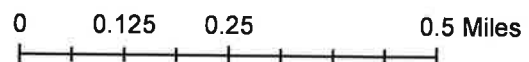
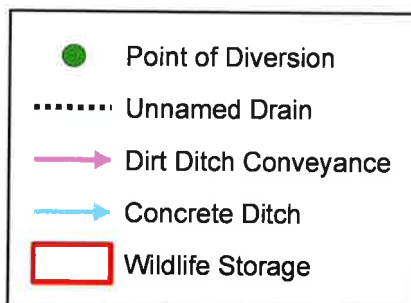
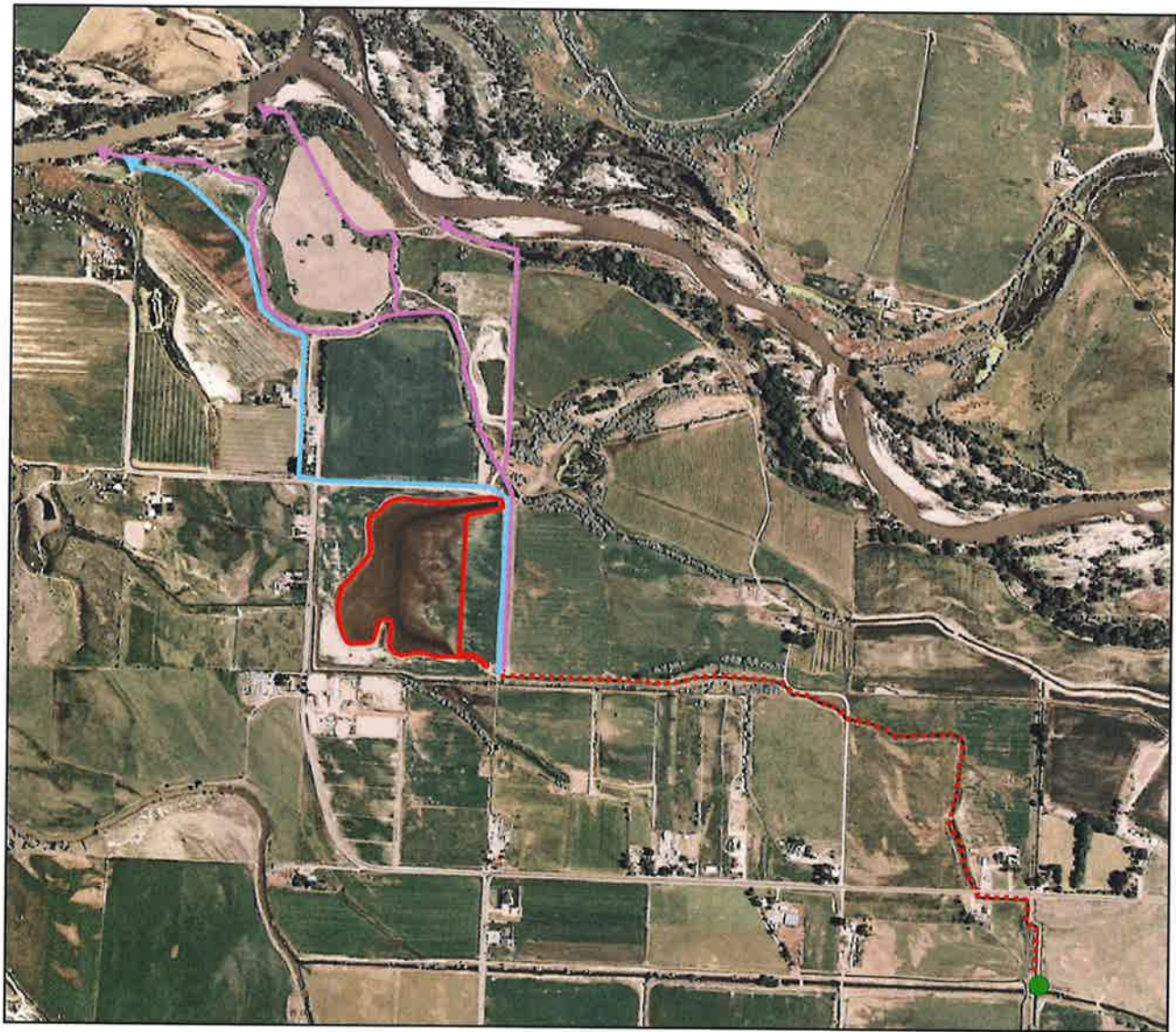


0 0.125 0.25 0.5 Miles

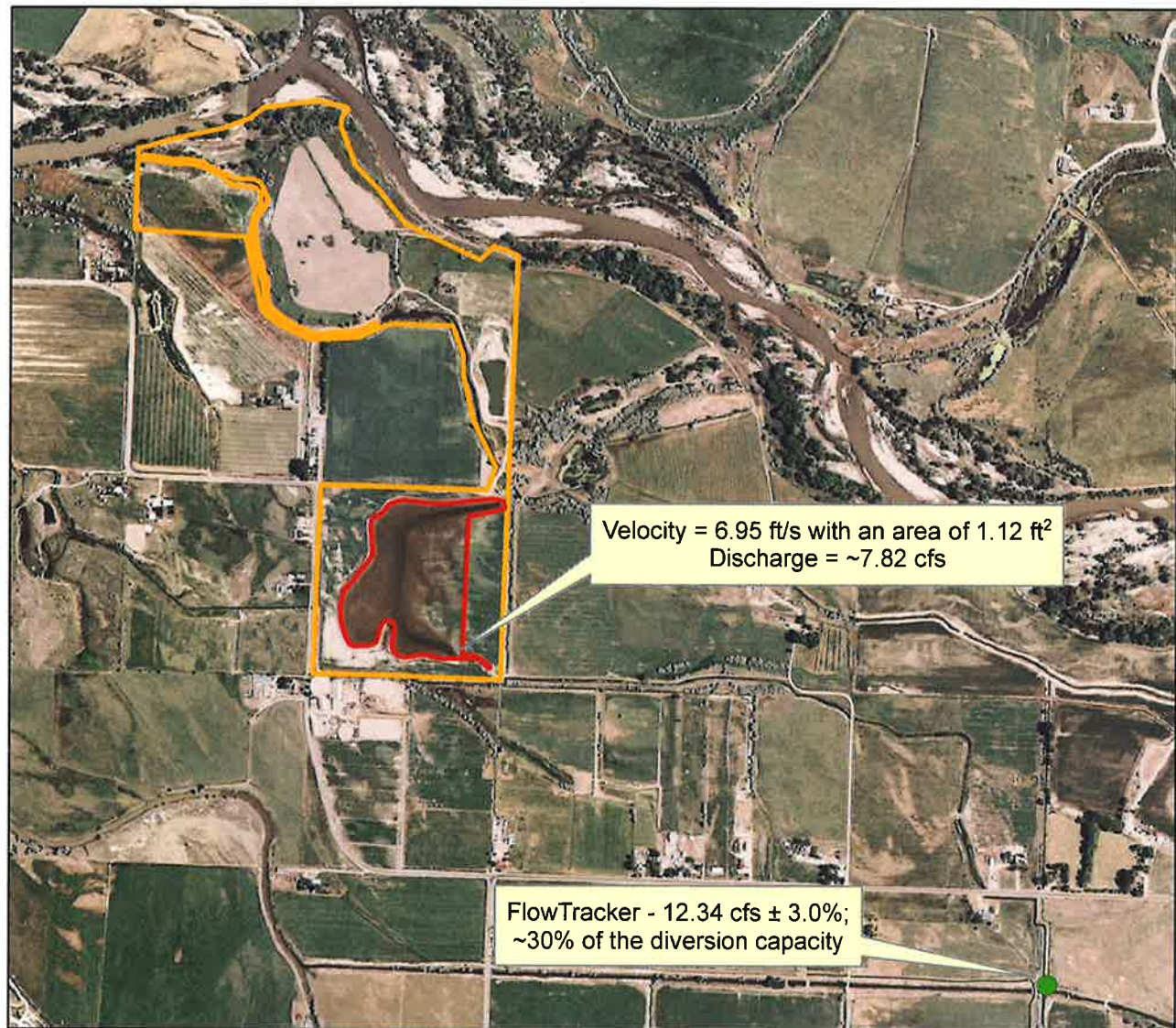


State of Idaho
Department of Water Resources
System Diagram
Water Right Permit No. 63-31891

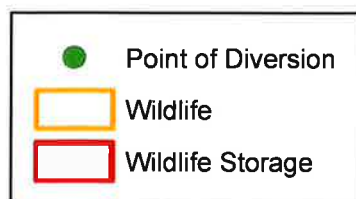
This map depicts the WILDLIFE and WILDLIFE STORAGE place of use boundary for this water right at the time of this approval and is attached to the approval document soely for illustrative purposes.



State of Idaho
Department of Water Resources
Measurements
Water Right Permit No. 63-31891



0 0.125 0.25 0.5 Miles



Discharge Measurement Summary

Date Generated: Wed May 16 2018

File Information

File Name SCOTT1.WAD
Start Date and Time 2018/05/15 11:39:16

Site Details

Site Name SLOUGH
Operator(s) AS

System Information

Sensor Type FlowTracker
Serial # P4553
CPU Firmware Version 3.7
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%	1.3%
Velocity	2.5%	2.5%
Width	0.2%	0.2%
Method	2.8%	-
# Stations	3.9%	-
Overall	5.5%	3.0%

Summary

Averaging Int.	20	# Stations	13
Start Edge	LEW	Total Width	7.000
Mean SNR	48.4 dB	Total Area	7.825
Mean Temp	61.08 °F	Mean Depth	1.118
Disch. Equation	Mid-Section	Mean Velocity	1.5770
		Total Discharge	12.3394

Measurement Results

St	Clock	Loc	Method	Depth	%Dep	MeasD	Vel	CorrFact	MeanV	Area	Flow	%Q
0	11:39	1.00	None	0.400	0.0	0.0	0.0000	1.00	3.2684	0.200	0.6536	5.3
1	11:42	2.00	0.6	1.300	0.6	0.520	3.2684	1.00	3.2684	0.975	3.1863	25.8
2	11:45	2.50	0.6	1.400	0.6	0.560	2.7116	1.00	2.7116	0.700	1.8980	15.4
3	11:50	3.00	0.6	1.500	0.6	0.600	2.1929	1.00	2.1929	0.750	1.6447	13.3
4	11:52	3.50	0.6	1.500	0.6	0.600	1.8556	1.00	1.8556	0.750	1.3917	11.3
5	11:54	4.00	0.6	1.300	0.6	0.520	1.6893	1.00	1.6893	0.650	1.0979	8.9
6	11:57	4.50	0.6	1.300	0.6	0.520	1.2759	1.00	1.2759	0.650	0.8293	6.7
7	11:57	5.00	0.6	1.300	0.6	0.520	0.9121	1.00	0.9121	0.650	0.5928	4.8
8	11:59	5.50	0.6	1.200	0.6	0.480	0.8471	1.00	0.8471	0.600	0.5083	4.1
9	12:04	6.00	0.6	1.200	0.6	0.480	0.4639	1.00	0.4639	0.600	0.2784	2.3
10	12:06	6.50	0.6	1.100	0.6	0.440	0.5390	1.00	0.5390	0.550	0.2965	2.4
11	12:12	7.00	0.6	1.000	0.6	0.400	-0.0509	1.00	-0.0509	0.750	-0.0381	-0.3
12	12:12	8.00	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

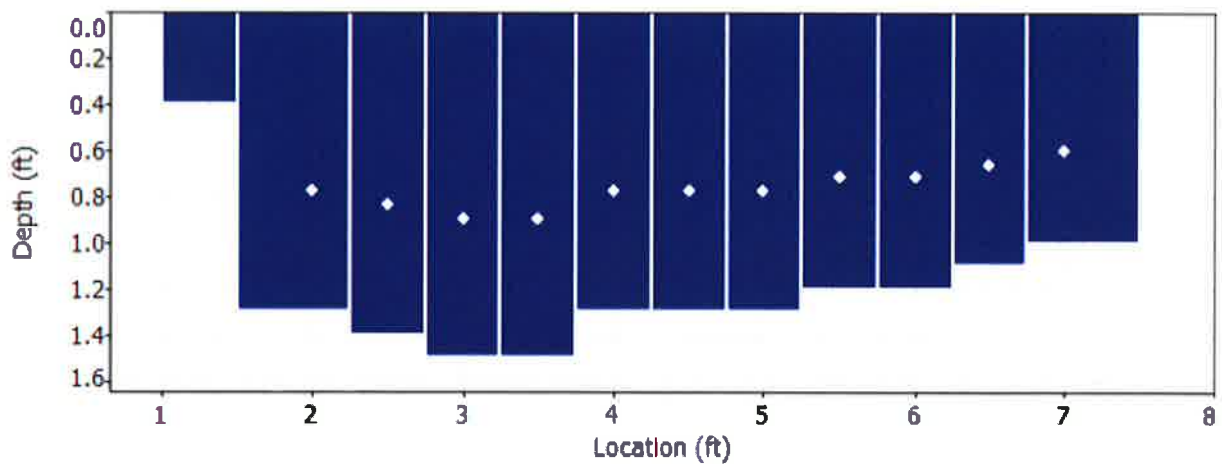
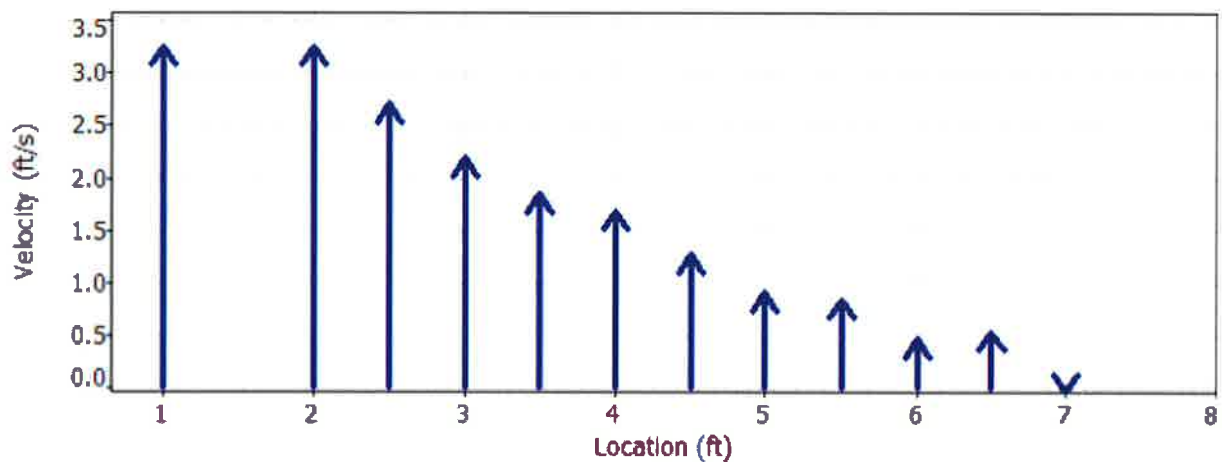
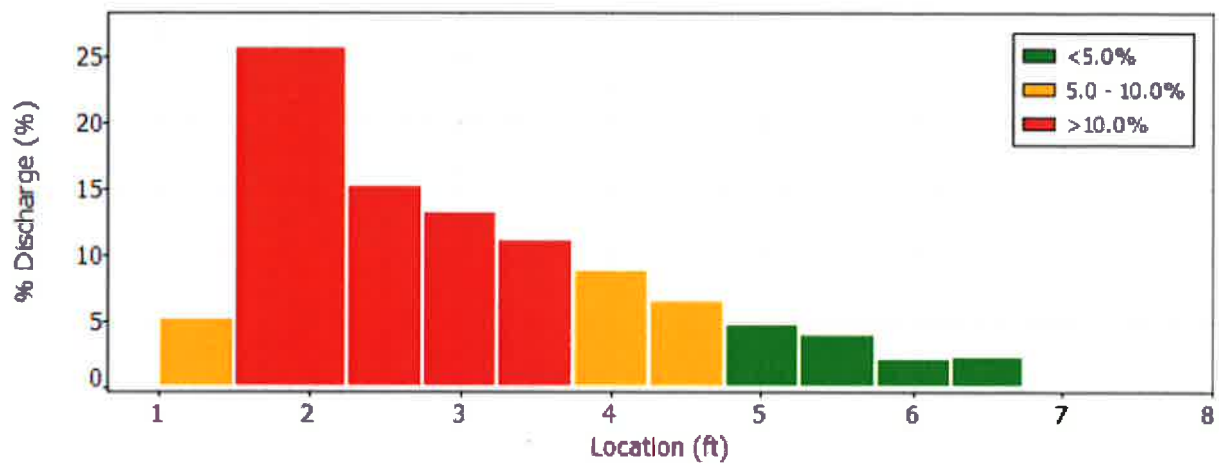
Date Generated: Wed May 16 2018

File Information

File Name SCOTT1.WAD
Start Date and Time 2018/05/15 11:39:16

Site Details

Site Name SLOUGH
Operator(s) AS



Discharge Measurement Summary

Date Generated: Wed May 16 2018

File Information

File Name SCOTT1.WAD
Start Date and Time 2018/05/15 11:39:16

Site Details

Site Name SLOUGH
Operator(s) AS

Quality Control

St	Loc	%Dep	Message
11	7.00	0.6	High angle: -113

Discharge Measurement Summary

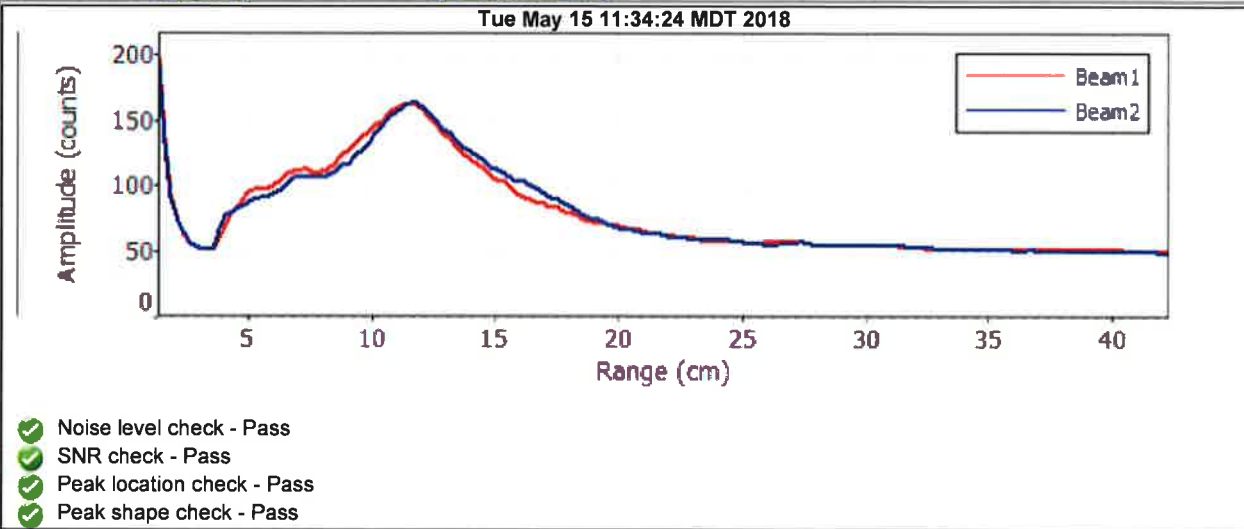
Date Generated: Wed May 16 2018

File Information

File Name SCOTT1.WAD
Start Date and Time 2018/05/15 11:39:16

Site Details

Site Name SLOUGH
Operator(s) AS

Automatic Quality Control Test (BeamCheck)

Diversion Calculations to Storage/Main Ditch

WR Permit No. 63-31891

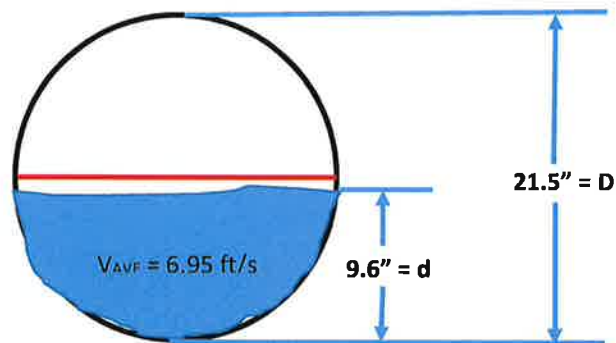
Prepared by: Aaron Skinner

Date: 5/19/2018

21.5" diameter pipe

Average Velocity = 6.95 ft/s (FlowTracker reading)

Pipe was 45% full (0.8' depth) = 9.6"



$$d/D = 0.4465 = 45\%$$

$$A/D^2 = 0.3428 \text{ (see attached Appendix 16.A)}$$

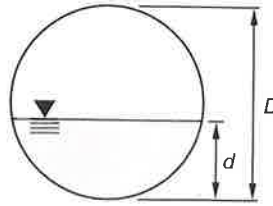
$$0.3428 \times 21.5''^2 = A; A = 158.49''^2$$

$$A = 158.49''^2 / (144''^2/1''^2) = 1.10 \text{ ft}^2$$

$$Q = \text{Area} \times V_{\text{AVE}}$$

$$Q = 1.10 \text{ ft}^2 \times 6.95 \text{ ft/s} = \mathbf{7.65 \text{ cfs}}$$

APPENDIX 16.A
Area, Wetted Perimeter, and Hydraulic Radius
of Partially Filled Circular Pipes



$\frac{d}{D}$	$\frac{\text{area}}{D^2}$	$\frac{\text{wetted perimeter}}{D}$	$\frac{r_h}{D}$	$\frac{d}{D}$	$\frac{\text{area}}{D^2}$	$\frac{\text{wetted perimeter}}{D}$	$\frac{r_h}{D}$
0.01	0.0013	0.2003	0.0066	0.51	0.4027	1.5908	0.2531
0.02	0.0037	0.2838	0.0132	0.52	0.4127	1.6108	0.2561
0.03	0.0069	0.3482	0.0197	0.53	0.4227	1.6308	0.2591
0.04	0.0105	0.4027	0.0262	0.54	0.4327	1.6509	0.2620
0.05	0.0147	0.4510	0.0326	0.55	0.4426	1.6710	0.2649
0.06	0.0192	0.4949	0.0389	0.56	0.4526	1.6911	0.2676
0.07	0.0242	0.5355	0.0451	0.57	0.4625	1.7113	0.2703
0.08	0.0294	0.5735	0.0513	0.58	0.4723	1.7315	0.2728
0.09	0.0350	0.6094	0.0574	0.59	0.4822	1.7518	0.2753
0.10	0.0409	0.6435	0.0635	0.60	0.4920	1.7722	0.2776
0.11	0.0470	0.6761	0.0695	0.61	0.5018	1.7926	0.2797
0.12	0.0534	0.7075	0.0754	0.62	0.5115	1.8132	0.2818
0.13	0.0600	0.7377	0.0813	0.63	0.5212	1.8338	0.2839
0.14	0.0688	0.7670	0.0871	0.64	0.5308	1.8546	0.2860
0.15	0.0739	0.7954	0.0929	0.65	0.5404	1.8755	0.2881
0.16	0.0811	0.8230	0.0986	0.66	0.5499	1.8965	0.2899
0.17	0.0885	0.8500	0.1042	0.67	0.5594	1.9177	0.2917
0.18	0.0961	0.8763	0.1097	0.68	0.5687	1.9391	0.2935
0.19	0.1039	0.9020	0.1152	0.69	0.5780	1.9606	0.2950
0.20	0.1118	0.9273	0.1206	0.70	0.5872	1.9823	0.2962
0.21	0.1199	0.9521	0.1259	0.71	0.5964	2.0042	0.2973
0.22	0.1281	0.9764	0.1312	0.72	0.6054	2.0264	0.2984
0.23	0.1365	1.0003	0.1364	0.73	0.6143	2.0488	0.2995
0.24	0.1449	1.0239	0.1416	0.74	0.6231	2.0714	0.3006
0.25	0.1535	1.0472	0.1466	0.75	0.6318	2.0944	0.3017
0.26	0.1623	1.0701	0.1516	0.76	0.6404	2.1176	0.3025
0.27	0.1711	1.0928	0.1566	0.77	0.6489	2.1412	0.3032
0.28	0.1800	1.1152	0.1614	0.78	0.6573	2.1652	0.3037
0.29	0.1890	1.1373	0.1662	0.79	0.6655	2.1895	0.3040
0.30	0.1982	1.1593	0.1709	0.80	0.6736	2.2143	0.3042
0.31	0.2074	1.1810	0.1755	0.81	0.6815	2.2395	0.3044
0.32	0.2167	1.2025	0.1801	0.82	0.6893	2.2653	0.3043
0.33	0.2260	1.2239	0.1848	0.83	0.6969	2.2916	0.3041
0.34	0.2355	1.2451	0.1891	0.84	0.7043	2.3186	0.3038
0.35	0.2450	1.2661	0.1935	0.85	0.7115	2.3462	0.3033
0.36	0.2546	1.2870	0.1978	0.86	0.7186	2.3746	0.3026
0.37	0.2642	1.3078	0.2020	0.87	0.7254	2.4038	0.3017
0.38	0.2739	1.3284	0.2061	0.88	0.7320	2.4341	0.3008
0.39	0.2836	1.3490	0.2102	0.89	0.7384	2.4655	0.2995
0.40	0.2934	1.3694	0.2142	0.90	0.7445	2.4981	0.2980
0.41	0.3032	1.3898	0.2181	0.91	0.7504	2.5322	0.2963
0.42	0.3130	1.4101	0.2220	0.92	0.7560	2.5681	0.2944
0.43	0.3229	1.4303	0.2257	0.93	0.7612	2.6061	0.2922
0.44	0.3328	1.4505	0.2294	0.94	0.7662	2.6467	0.2896
0.45	0.3428	1.4706	0.2331	0.95	0.7707	2.6906	0.2864
0.46	0.3527	1.4907	0.2366	0.96	0.7749	2.7389	0.2830
0.47	0.3627	1.5108	0.2400	0.97	0.7785	2.7934	0.2787
0.48	0.3727	1.5308	0.2434	0.98	0.7816	2.8578	0.2735
0.49	0.3827	1.5508	0.2467	0.99	0.7841	2.9412	0.2665
0.50	0.3927	1.5708	0.2500	1.00	0.7854	3.1416	0.2500

Total Storage Calculations

FILE NUMBER	63-31891
REVIEWER	Aaron Skinner
DATE	5/16/2018

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total seepage, evaporation and fill capacity required for a pond.

User Input
Calculated value
Formula Explanations

Surface Area (AC.)	17.6	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	2	"Average Pond Depth" depicts the actual depth of the pond either measured or estimated. Note: If you know the maximum depth and not the average depth, the Field Examiner's Handbook suggests multiplying the maximum depth by 0.4 to get the average depth, or you can use any method that seems reasonable to attain average depth.
Pond Capacity (AF)	35.2	Pond Capacity is calculated by multiplying the Pond Surface Area by the Average Pond Depth. If you know the capacity, divide the capacity by surface area and enter the average pond depth in the space above. Note: If pond capacity is determined using a method shown on the "Pond Capacity" sheet, the user may need to modify the value of "Pond Capacity" (cell B9) manually. Note that if the value is modified manually, the formula will be altered for future use.
Multiple Fill Volume Above Initial Fill to Fulfill From Storage Needs- "Multiple Fills" (AF)	0	The "Multiple Fill Volume Above Initial Fill" is the acre-feet of water required to meet a <i>from storage</i> component if the <i>from storage</i> component exceeds a one time fill. This section should not include the amount of water needed to fill the pond initially or the amount of water needed to maintain the pond level due to evaporation or seepage. For example: if a pond has a capacity of 5 acre feet and 2.5 acre feet of seepage and evaporation, but the pond is used for irrigation that requires 10 acre feet of from storage for the irrigation use, then you would insert 5 acre feet into this location (10 acre feet needed - 5 acre feet from the initial fill = 5 acre feet of additional storage needed). Note: You must have a "From Storage" component exceeding the initial fill on the permit to include a volume in this space.
Estimated Seepage Loss (AF)	45.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	38.3	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	118.5	The "Total Volume Required" is calculated by adding the Pond Capacity, Multiple Fills, Seepage Loss, and Evaporation Loss amounts to determine the total amount of storage required.

Flow Rate into Pond (CFS)	5.00	The "Flow Rate into Pond" depicts the actual flow, either measured or estimated, into the pond. For offstream facilities, this will be equivalent to "diversion to storage" rate.
Highest Daily Evaporation Rate From Evaporation Tab. (mm/Day)	4.29	This number is carried over from the "Evaporation Loss" sheet. It is the highest recorded number in the "Precipitation Deficit Table".
Required Daily Maintenance Volume (AF/Day)	0.37	"Required Daily Maintenance Volume" is the maximum volume of water needed on any given day during the year to maintain pond volume. It is calculated by adding the highest daily evaporation loss to the average daily seepage loss in acre feet. The average daily seepage loss is calculated by dividing the "Estimated Seepage Loss" by 365 days. This is acceptable, since the seepage rate shouldn't vary throughout the season unless the pond completely freezes over during the winter months. The highest daily evaporation loss is calculated by dividing the Highest Daily Evaporation Rate by the 304.8 conversion factor and multiplying this number by the pond surface area to attain a combined daily acre feet requirement.
Minimum Maintenance Flow (CFS)	0.19	The "Minimum Maintenance Flow" is the minimum amount of flow required to maintain the level of the pond. This number is determined by dividing the "Maximum Required Daily Maintenance Volume" by 1.9835. This flow can be used to determine if the flow rate into the pond is adequate to maintain the pond level.
Days Required to Fill the Pond	4	The "Days Required to Fill the Pond" is calculated by dividing the "Pond Capacity" by the "Flow Rate" minus "Minimum Maintenance Flow" multiplied by 1.9835. This section will assist you in determining if the flow rate being diverted to the pond is adequate to fill the pond while maintaining the pond level. The length of time to fill the pond will help determine if the flow rate is adequate for the size of pond being proposed. If this number is approximately 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond.
Days Required to Fill the Pond at 13,000 Gallons per Day	-106	Some water users may want to fill a pond under the 13,000 gallons per day domestic exemption. The "Days Required to Fill the Pond at 13,000 Gallons per Day" is calculated by converting the "Pond Capacity" and the "Required Daily Maintenance Volume" to gallons. The "Pond Capacity" is then divided by 13,000 gallons minus the "Required Daily Maintenance Volume" in gallons to determine the number of days to fill pond. If this number is approximately 6 months (180 days) or more, the reviewer should have a discussion with the applicant to make sure he/she understands that it will take a significant length of time to fill the pond. Negative values indicate that the supply of 13,000 gallons per day is not enough volume to overcome the required daily maintenance volume; the pond will never fill.

Evaporation Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the annual evaporation losses from a pond.

FILE NUMBER	63-31891
REVIEWER	Aaron Skinner
DATE	5/16/2018

User Input
Calculated value
Formula Explanations

The acronyms used on the Kimberly Research Center website are defined below:

P = Precipitation
ET= Evapotranspiration
P _d = Precipitation deficit
P _d =ET-P

USING THIS SPREADSHEET

Use the link below to access the Kimberly Research Center website. This website provides the Precipitation Deficit for a station most representative of the pond under examination. The Precipitation Deficit is the total amount of free water surface evaporation minus the precipitation for a given area, which gives the total amount of evaporative losses incurred by the pond. There are several weather sites that are used throughout the state. IDWR staff can find the nearest site using Arc Map. The shape file containing the sites can be found at <X:/Spatial/Climate/ETIdahostations.shp>.

Instructions:

1. Use the link below to navigate to ET Idaho 2012.
2. Select the station which is most representative to your pond location.
3. Click Submit Query.
4. Under "Land Covers with Evapotranspiration Estimates," select "Open Water - Shallow Systems (ponds, streams)" or "Open Water - small stock ponds" depending on the pond size.
5. Click the link to "Precipitation Deficit."
6. Reference and copy (ctrl + C) the first subheading "Mean" values.
7. Click the "Paste Values from ET Idaho" button. The table will automatically enter a zero (0) for any negative precipitation deficit values.

Found at: <http://data.kimberly.uidaho.edu/ETIdaho/>

Precipitation Deficit

Station: Parma (AgriMet -- PMAI)

Month	mm/day ¹	Days per month	mm/Month
Jan	0.00	31	0.00
Feb	0.38	28	10.64
March	1.28	31	39.68
April	2.00	30	60.00
May	2.63	31	81.53
June	3.42	30	102.60
July	4.29	31	132.99
August	3.80	31	117.80
September	2.67	30	80.10
October	1.13	31	35.03
November	0.10	30	3.00
December	0.00	31	0.00

PLEASE NOTE: The seasonal average for precipitation deficit should not be used for calculations because precipitation often exceeds evaporation during wetter months of the year. If the pond is kept full, excess precipitation during wetter months does not serve to refill the pond during drier months.

For example, see Sandpoint KSPT (NWS -- 108137), the annual precipitation deficit is -106 mm. However, April through September have positive precipitation deficit values. To properly estimate the annual volume of water necessary to refill a pond due to evaporation losses, the table will automatically enter a zero (0) for each month that the precipitation value is reported as a negative value.

As described above, precipitation offsets evaporation in winter months, so the net effect is that wintertime precipitation deficit is usually zero.

Total mm/year = 663.37

$[(\text{mm/yr}) \div (\text{convert to feet})] \times (\text{Surface area of pond, in acres}) = \text{Evaporation Loss in Acre Feet}$

$$(663.37 \div 304.8) \times 17.60 = 38.3 \text{ AFA}$$

Seepage Loss Calculations

This spreadsheet has been designed by Idaho Department of Water Resources to estimate the total annual seepage losses from a pond.

FILE NUMBER	63-31891
REVIEWER	Aaron Skinner
DATE	5/16/2018

User Input
Calculated value
Formula Explanations

INPUTS

Pond Surface Area (AC.)	17.6	AC.
-------------------------	------	-----

Pond Surface Area (SQ. FT.)	766656	SQ. FT.
-----------------------------	--------	---------

I used the following method to obtain my Soil Classification Information:	NRCS Web Soil Survey	
My Soil Classification is	SC	
Suggested Seepage Rate (FT./DAY)	0.0070	FT./DAY

Formula: (Surface Area X Seepage Rate) X 7.48 = Gallons Per Day Loss		
--	--	--

Convert to GPD	40142	GPD
----------------	-------	-----

Total Seepage Loss (AFA)	45.0	AFA
--------------------------	------	-----

Though sand and gravel seepage rates may actually be higher, the maximum allowable rate is 0.2 ft/day, pursuant to Administrative Memo "Seepage Loss Standards for Ponds and Reservoirs."

Suggested Seepage Rates for Different Soil Types:
GW, GP, GM, GC, SW, SP and SM (silty sand, sand silt mixtures and gravel mixtures) = 0.2 ft per day
OL and ML (inorganic silts - very fine sands, silty, or clayey fine sands) = 0.02 ft per day
SC (clayey sands, sand clay mixtures) = 0.007 ft per day
CL (Low to medium plasticity clays) = 0.003 ft per day
MH, OH, PT and CH (high plasticity clays) = 0.0003 ft per day
LINED PONDS (liners can be chemical, fabric, or bentonite) = 0 ft per day
Ponds Intercepting Groundwater (excavated ponds filled by ground water) = 0 ft per day

PLEASE NOTE: The initial basis for the Suggested Seepage Rates in the table above is found on Page 16 of Seepage from Fish Ponds, Bulletin 599, August 1989 Alabama Agricultural experiment Station, Auburn University, Auburn University Alabama. If you don't know the soil type, please refer to the map provided at the NRCS Web Soil Survey (Tab #1), an ArcMap Soil Classification Map (Tab #1.1), or published NRCS Soil Survey (Tab #1.2). Use "0" if the pond fill relies on the water table.

ETIdaho 2012 -- **Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho**Please send suggestions for improving this site to robbison@kimberly.uidaho.edu Copyright 2012, University of Idaho.

Parma (AgriMet -- PMAI)

Statistics based on thirty year normal spans 1990 to 2011 years

For a different land cover or crop click on the above link.

You can highlight this table and copy via the clipboard to a Microsoft Excel or OpenOffice spreadsheet to plot or otherwise work with this data.

Open water - shallow systems (ponds, streams)															
Precipitation Deficit (Click here for a graph)															
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Growing Season ^a	Non Growing Season ^b	Annual
Mean ^c	mm/day												mm		
Monthly ^c	-0.43	0.38	1.28	2.00	2.63	3.42	4.29	3.80	2.67	1.13	0.10	-0.54	632	0	632
15-Day Moving Average ^d	-0.49	0.34	1.27	2.04	2.64	3.46	4.33	3.76	2.64	1.12	0.15	-0.48			
7-Day Moving Average ^e	-0.46	0.35	1.26	2.03	2.65	3.44	4.32	3.77	2.63	1.13	0.10	-0.51			
3-Day Moving Average ^f	-0.43	0.36	1.27	2.02	2.63	3.42	4.30	3.79	2.66	1.12	0.09	-0.52			
Standard Deviation ^h	mm/day												mm		
Monthly ^h	0.76	0.46	1.18	0.61	1.82	0.72	0.68	0.69	0.48	0.97	0.44	1.02	110	0	110
15-Day Moving Average ^d	0.74	0.54	1.02	0.76	1.77	1.00	0.52	0.62	0.68	0.99	0.57	0.82			
7-Day Moving Average ^e	1.00	0.70	1.17	1.11	2.18	1.40	0.65	0.76	0.94	1.37	0.85	1.18			
3-Day Moving Average ^f	1.40	0.99	1.55	1.62	2.65	1.90	0.90	0.94	1.23	1.84	1.17	1.72			
20% Exceedance ^g	mm/day												mm		
Monthly ^g	0.04	0.74	1.91	2.36	3.56	3.93	4.62	4.17	2.95	1.63	0.47	-0.15	740	0	740
15-Day Moving Average ^d	0.44	0.94	2.57	3.07	4.67	4.62	4.96	4.44	3.35	2.24	0.87	0.39			
7-Day Moving Average ^e	0.59	1.31	2.82	3.80	4.77	4.99	5.17	4.63	3.67	2.61	1.31	0.64			
3-Day Moving Average ^f	0.94	1.57	3.55	4.22	5.09	5.39	5.61	5.00	4.07	3.03	1.78	1.08			
80% Exceedance ^m	mm/day												mm		
Monthly ^g	-1.02	-0.17	0.40	1.56	1.68	2.81	3.84	3.08	2.11	0.24	-0.27	-1.07	516	0	516
15-Day Moving Average ^d	-1.77	-0.64	-0.31	0.64	-0.50	1.92	3.57	2.31	1.34	-0.85	-0.91	-2.01			
7-Day Moving Average ^e	-3.37	-1.37	-1.93	-0.64	-3.25	-0.69	3.17	1.75	-0.23	-2.57	-2.36	-3.81			
3-Day Moving Average ^f	-6.19	-3.31	-3.62	-2.46	-7.64	-4.18	1.79	0.63	-3.01	-4.84	-4.52	-7.50			
Ave Highest P _{def}	mm/day												--		
15-Day Moving Average ^d	0.23	0.67	1.91	2.71	3.70	4.23	4.65	4.22	3.09	1.82	0.58	0.24			
7-Day Moving Average ^e	0.46	1.07	2.41	3.35	4.48	4.67	4.90	4.42	3.45	2.31	0.95	0.53			
3-Day Moving Average ^f	0.73	1.40	3.00	3.88	4.88	5.08	5.24	4.78	3.83	2.88	1.34	0.85			
Ave Lowest P _{def}	mm/day												--		
15-Day Moving Average ^d	-1.01	0.05	0.67	1.29	1.43	2.59	4.03	3.38	2.21	0.40	-0.35	-1.11			
7-Day Moving Average ^h	-1.83	-0.42	-0.07	0.23	-0.25	1.36	3.55	2.88	1.53	-0.62	-1.16	-2.25			
3-Day Moving Average ^f	-3.56	-1.55	-1.55	-1.39	-2.81	-0.71	2.65	1.97	0.23	-2.52	-2.63	-4.51			
Special normal distribution parameters for monthly, seasonal, and annual intervals															
Skew ⁿ	-0.01	-0.87	-0.38	-0.19	-0.26	-0.55	-0.24	-0.14	-0.22	-0.32	-0.19	-0.38	-0.16	0.00	-0.16
Kurtosis ^o	0.52	3.16	0.95	3.41	0.84	3.31	0.80	0.60	2.58	0.76	2.45	0.99	2.10	0.00	2.70

^a Growing Season: This is usually the time from green up or planting in the spring to a killing frost or harvest in the fall. It is not applicable for entries without a growing season and will be blank.^b Nongrowing Season: This is usually the time from a killing frost or harvest in the fall to the of green up in the spring. It is not applicable for entries without a growing season.^c Mean of the average daily value for month^d Mean of the fourteen 15-day period averages contained in the month^e Mean of the twenty three 7-day period averages contained in the month^f Mean of the twenty seven 3-day period averages contained in the month^g Mean of the highest/lowest 15-day period average in month^h Mean of the highest/lowest 7-day period average in monthⁱ Mean of the highest/lowest 3-day period average in month^j This value represents the *mean value* for the parameter for the month over the 'normal' period of record. Generally, the 'normal' period is the last thirty years with data.^k This value represents the *standard deviation* for the parameter for the month over the 'normal' period.^l This value represents the *value* for the parameter that has a 20% chance of being exceeded that month during any particular year. Conversely, there is an 80% chance that the parameter value will be less than the *value* shown.^m This value represents the *value* for the parameter that has a 80% chance of being exceeded that month during any particular year. Conversely, there is an 20% chance that the parameter value will be less than the *value* shown.ⁿ This value represents the *skewness (asymmetry)* of the distribution of the parameter values for the month (year) over the 'normal' period. A value near zero indicates that the distribution approximates a normal (Gaussian) and symmetrical distribution. A negative skew indicates that the parameter distribution has relatively few low values compared to high values. A positive skew indicates that the distribution has relatively few high values compared to the number of low values. A skew value near 1 indicates that the underlying distribution approximates a lognormal distribution.^o This value represents the *kurtosis* of the parameter value distribution for the month (year) over the 'normal' period. Kurtosis is a measurement of the height to width ratio of the probability distribution, or the *peakedness (slenderness)*. A normal (Gaussian) distribution has a kurtosis of 3. A high kurtosis distribution has a sharper peak and longer tails, while a low kurtosis distribution has a more rounded peak and shorter tails.

This work and report were prepared by the University of Idaho Research and Extension Center at Kimberly, Idaho under contract with the Idaho Department of Water Resources. Work was supported by funding from IDWR and the Idaho Agricultural Experiment Station and Idaho Engineering Experiment Station. The authors gratefully acknowledge the long-term evapotranspiration data collection and long-standing advice provided by Dr. James L. Wright, USDA-ARS Kimberly (ret.), the more than two decades of high quality agricultural weather data collection by the U.S. Bureau of Reclamation AgriMet system, and the very long-standing, routine data collection by the hundreds of cooperative weather station volunteers across the state who, for more than one-hundred years, have faithfully observed daily air temperature and precipitation.

The citation for the evapotranspiration data used from this site should be: Allen, Richard G. and Clarence W. Robison, 2012. *Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho: Supplement updating the Time Series through December 2008*, Research Technical Completion Report, Kimberly Research and Extension Center, University of Idaho, Moscow, ID.

Questions regarding the data should be addressed to [Clarence W. Robison](mailto:Clarence.W.Robison@uidaho.edu) or [Richard G. Allen](mailto:Richard.G.Allen@uidaho.edu), University of Idaho, Kimberly Research and Extension Center, 3793 North 3600 East, Kimberly, ID 83341. Telephone (208)-423-6610

Intro to Soils [Subtitles and Limitations for Use](#)

Soil Properties and Qualities

Ecological Site Assessment

Soil Reports

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Soil Reports

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AOI Inventory

Building Site Development

Construction Materials

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Land Classifications

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Soil Chemical Properties

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Options

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Include minor soils? ☐

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Fragments on the Soil Surface

Particle Size and Coarse Fragments

Physical Soil Properties

Soil Qualities and Features

Vegetative Productivity

Waste Management

Water Features

Water Management

Soil Map

[Scale](#) (tool to scale) [V](#)



Report—Engineering Properties

Absence of an entry indicates that the data were not estimated. The asterisk "*" denotes the representative texture; other possible textures follow the dash. The criteria for determining the hydrologic soil group for individual soil components is found in the National Engineering Handbook, Chapter 7 issued May 2007(<http://directives.sc.egov.usda.gov/OpenNonWebContent.aspx?content=17757.wba>). Three values are provided to identify the expected Low (L), Representative Value (R), and High (H).

Engineering Properties—Canyon Area, Idaho														
Map unit symbol and soil name	Pct. of map unit	Hydrolo gic group	Depth	USDA texture	Classification		Pct Fragments		Percentage passing sieve number—				Liquid limit	Plasticit y index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
BsA—Bram silt loam, saline-alkali, 0 to 1 percent slopes			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	
Bram, saline-alkali	90	C	0-17	Silt loam	CL, CL-ML	A-6, A-4	0-0- 0	0-3- 5	90-93- 95	90-93- 95	90-93- 95	75-83- 90	24-29 -33	7-9 -12
			17-52	Silt loam, loam, very fine sandy loam	CL, CL-ML	A-6, A-4	0-0- 0	0-3- 5	90-93- 95	90-93- 95	90-93- 95	75-83- 90	22-26 -30	7-10-12
			52-65	Fine sandy loam, gravelly loam	SC, GC-GM	A-6, A-2, A-4	0-0- 0	0-0- 0	55-90-1 00	50-90-1 00	45-58- 70	25-33- 40	22-26 -30	7-10-12
Ch—Chance fine sandy loam														
Chance	85	A/D	0-1	Slightly decomposed plant material	PT	A-8	0-0- 0	0-0- 0	100-100 -100	100-100 -100	60-75-1 00	50-65- 90	—	—
			1-2	Moderately decomposed plant material	PT	A-8	0-0- 0	0-0- 0	100-100 -100	100-100 -100	60-75-1 00	50-65- 90	—	—
			2-14	Fine sandy loam	SC, SC-SM	A-6, A-4	0-0- 0	0-0- 0	100-100 -100	100-100 -100	70-78- 85	40-45- 50	22-29 -35	6-9-13
			14-25	Sandy loam, fine sandy loam	SC-SM, SC	A-6, A-2, A-4	0-0- 0	0-3- 5	80-90-1 00	80-90-1 00	60-73- 85	30-40- 50	20-25 -30	6-9-12
			25-62	Sand, gravel	GP	A-1	0-0- 0	0-0- 0	35-40- 45	35-40- 45	25-30- 35	0-1- 2	0-0- 0	NP

Engineering Properties—Canyon Area, Idaho														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Pct Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			<i>In</i>				<i>L-R-H</i>	<i>L-R-H</i>	<i>L-R-H</i>	<i>L-R-H</i>	<i>L-R-H</i>	<i>L-R-H</i>	<i>L-R-H</i>	
L1A—Leitha fine sandy loam, strongly saline-alkali, 0 to 1 percent slopes														
Leitha, strongly saline-alkali	75	B	0-5	Fine sandy loam	ML, SM	A-4	0-0-0	0-0-0	90-95-100	90-95-100	90-93-95	40-50-60	20-26-31	2-4-6
			5-40	Fine sandy loam	ML, SM, CL, CL-ML	A-4	0-0-0	0-0-0	90-95-100	90-95-100	90-93-95	40-50-60	18-24-31	2-6-10
			40-58	Sand	SM, SC-SM	A-2	0-0-0	0-0-0	95-98-100	95-98-100	65-70-75	20-25-30	0-18-23	NP-3-6
M1A—Moulton fine sandy loam, 0 to 1 percent slopes														
Moulton	80	B	0-3	Fine sandy loam	SC, SC-SM	A-6, A-2, A-4	0-0-0	0-0-0	90-95-100	90-95-100	65-75-85	35-45-55	25-32-39	6-9-13
			3-21	Fine sandy loam, sandy loam	SC, SC-SM, CL	A-6, A-4	0-0-0	0-0-0	90-95-100	90-95-100	75-83-90	40-50-60	22-29-35	6-9-13
			21-60	Very gravelly loamy sand, very gravelly sand	GW, GP-GC, GC-GM	A-1	0-0-0	0-0-0	30-45-60	30-40-50	15-25-35	0-8-15	17-21-24	2-4-6
MuA—Moulton fine sandy loam, saline, 0 to 1 percent slopes														
Moulton, saline	90	B	0-3	Fine sandy loam	SC, SC-SM	A-6, A-2, A-4	0-0-0	0-0-0	90-95-100	90-95-100	65-75-85	35-45-55	25-32-39	6-9-13
			3-21	Fine sandy loam, sandy loam	SC, SC-SM, CL	A-6, A-4	0-0-0	0-0-0	90-95-100	90-95-100	75-83-90	40-50-60	22-29-35	6-9-13
			21-60	Very gravelly loamy sand, very gravelly sand	GW, GP-GC, GC-GM	A-1	0-0-0	0-0-0	30-45-60	30-40-50	15-25-35	0-8-15	17-21-24	2-4-6

Engineering Properties—Canyon Area, Idaho														
Map unit symbol and soil name	Pct. of map unit	Hydrologic group	Depth	USDA texture	Classification		Pct Fragments		Percentage passing sieve number—				Liquid limit	Plasticity index
					Unified	AASHTO	>10 inches	3-10 inches	4	10	40	200		
			In				L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H	L-R-H
MvA—Moulton loam, 0 to 1 percent slopes														
Moulton	90	C	0-3	Loam	CL, CL-ML	A-6, A-4	0-0-0	0-0-0	90-95-100	90-95-100	75-85-95	55-65-75	25-32-39	6-9-13
			3-21	Fine sandy loam, sandy loam	SC, CL, SC-SM	A-6, A-4	0-0-0	0-0-0	90-95-100	90-95-100	75-83-90	40-50-60	22-29-35	6-9-13
			21-60	Very gravelly loamy sand, very gravelly sand	GW, GP-GC, GC-GM	A-1	0-0-0	0-0-0	30-45-60	30-40-50	15-25-35	0-8-15	17-21-24	2-4-6

Data Source Information

Soil Survey Area: Canyon Area, Idaho
Survey Area Data: Version 14, Sep 8, 2017

04N05WB

[illegible]

No overlap; diversion on either side of unnamed stream/drain

Overlap; irrigation use; FE measurement totaled 12.34 cts at the POD

[illegible]



Point of Diversion from the Unnamed Drain. Slide gate was running about 40% capacity.



Unnamed Ditch that conveys water to the place of use. A measurement was taken about 30 feet downstream from the point of diversion and totaled 12.34 cfs $\pm 3.0\%$.



End of conveyance ditch. Water is delivered to the POU three different ways with these slide gates.



Three slide gates that divert to the POU and pond/canal.



Concrete ditch that takes water along the roads and back into the Boise River at the north section of the property.



Dirt ditch that takes water to the back section of the property on the east side.



Diversion to Storage. 21.5" PVC pipe running about 45% full. A velocity was taken to calculate a flow of 7.82 cfs.



Side angle of the above 21.5" pipe. Water was at the high water mark of the pipe to capture an average velocity.



End of the concrete delivery system. Water floods this area and returns to the Boise River just north of this area.



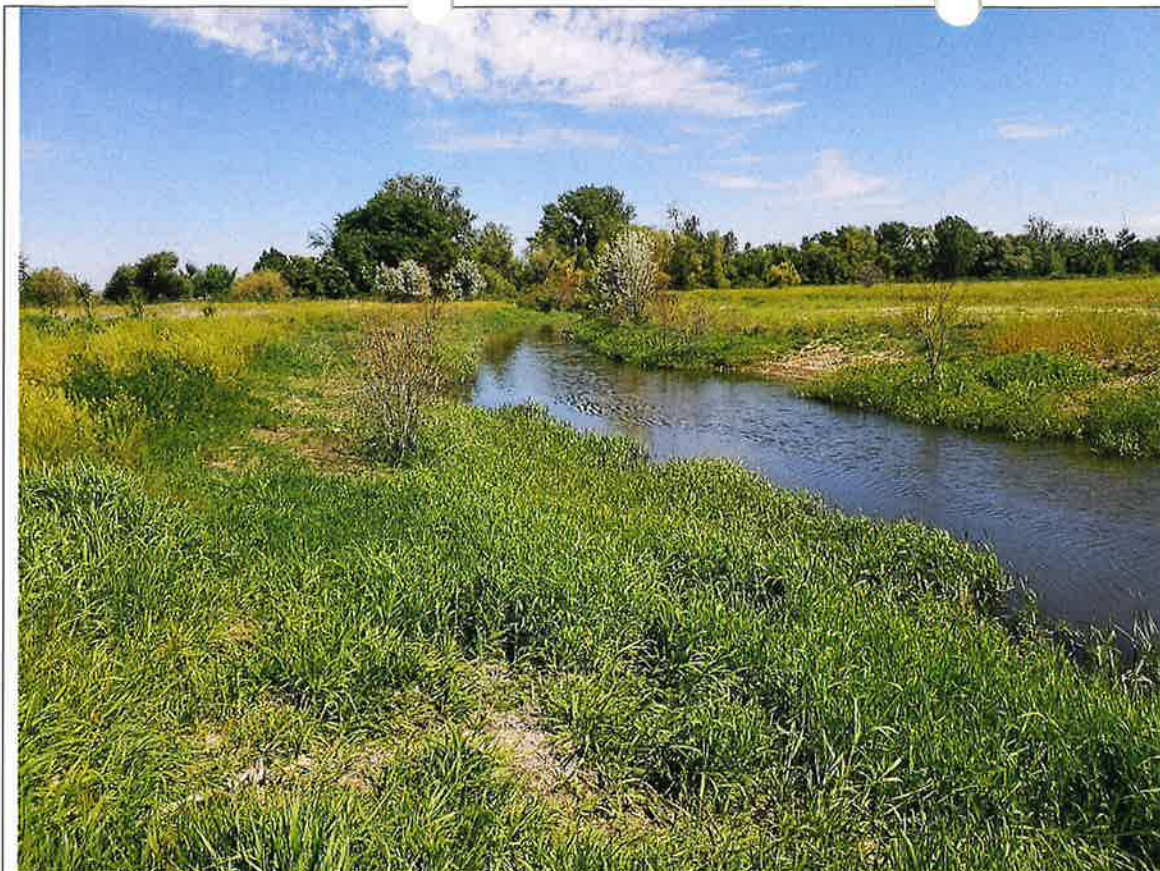
Conservation Easement Boundary marker that outlines the NRCS wetland.



Flow back to the
Boise River from
the concrete ditch.



Flow back to the
Boise River from
the concrete ditch.



Dirt ditch and pond water back to the Boise River.



Corrugated pipe is placed every so often to drain flood water back into the dirt ditch and the Boise River.



Corrugated pipe is placed every so often to drain flood water back into the dirt ditch and the Boise River.



Dirt ditch discharging into the Boise River.



South portion of
the Wildlife POU.



North portion of
the Wildlife POU.



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

June 21, 2018

JOHN HOFFERD
1376 NW REMARKABLE DR
BEND, OR 97701

COPY

RE: Water Right Permit No. 63-31891

Dear Mr. Hofferd:

Please see the enclosed Assignment of Permit. I also included a blank form for your convenience. Because the point of diversion is not owned by you, explain the historical use of the unnamed ditch that delivers water to the property towards the bottom of the page. This form will need to be signed by Scott and Clarrissa Garrigus and notarized. Once this happens and the \$25 fee is received, the permit will be changed into your name. Review the form and make sure everything is correct.

The amendment to add the acreage in the SWNE quarter-quarter of Section 36 will then be sent to you. This will need to be signed by you and returned with the \$100 fee.

If I don't hear from you by July 9, 2018, I will reach out to you again to help move things along. Please contact me at (208) 334-2190 if you have any questions. Thank you for your attention to this matter.

Respectfully,

Aaron Skinner
Water Resource Agent, Sr.
Idaho Department of Water Resources
Phone: (208) 334-2190
Email: aaron.skinner@idwr.idaho.gov

IDAHO DEPARTMENT OF WATER RESOURCES
WESTERN REGION
2735 Airport Way
Boise, Idaho 83705-5082

RETURN SERVICE REQUESTED

Associated to letter dated 6/15/2018
* No new letter sent. Ownership change form
received 7/5/2018.

PRESORTED
FIRST CLASS



U.S. POSTAGE >> PITNEY BOWES
ZIP 83702 \$ 000.378
02 1W
0001393370 JUN 15 2018

RECEIVED

JUN 25 2018

WATER RESOURCES
WESTERN REGION

RETURN TO SENDER

844 DEF 1300KTRE0005/70/18
RETURN TO SENDER
SARRIGUS
29806 W BOSTON RD
CHENEY WA 99004-8866



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

June 15, 2018

SCOTT AND CLARRISSA GARRIGUS
24520 BOISE RIVER RD
PARMA, ID 83660

RE: Water Right Permit No. 63-31891

Dear Permit Holder(s):

The Department of Water Resources is reviewing the permit(s) referenced above prior to issuing water right license(s). By issuing a license, the Department confirms the extent of development that has been established in compliance with the terms of the permit.

The examiner who verified your water use reported that certain elements of the permit(s) have been developed differently than described on your permit(s). Changes that do not increase the authorized use of water under the permit(s) can be requested and approved in accordance with Section 42-211, Idaho Code. Before license(s) can be issued, your permit(s) must be amended to depict your water use as it was actually developed.

Based on the examiner's report, the following elements were developed differently than described on your permit(s):

☐ Point(s) of Diversion

☒ Place(s) of Use

☐ Other

The enclosed Application for Amendment form(s) depicts the elements of the water right(s) as they will appear on the license(s) when issued. Please review the amendment form(s) carefully. If you concur with the information presented, please sign and return the form(s) with the \$100.00 filing fee within 14 days.

If you have any questions, please call me at (208) 334-2190.

Sincerely,

Aaron Skinner
Water Resource Agent, Sr.

Enclosure(s): Application for Amendment

cc:

JOHN E HOFFERD FAMILY TRUST



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

February 8, 2018

COPY

CLARRISSA GARRICUS AND/OR
SCOTT GARRIGUS
24520 BOISE RIVER RD
PARMA, ID 83660

RE: Scheduling Field Exam for Water Right Permit No. 63-31891

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **5.00 cfs** for an **UNNAMED DRAIN**, tributary of the **BOSIE RIVER** for **DIVERSION TO STORAGE, WILDLIFE, WILDLIFE STORAGE, WATER QUALITY IMPROVEMENT, and WATER QUALITY IMPROVEMENT STORAGE** use. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

Please contact me within the next thirty (30) days at (208) 334-2190 to either schedule an examination or submit a relinquishment form. If the Department does not received a response by March 8, 2018, your permit will become void. Thank you for your attention to this matter.

Sincerely,

Aaron Skinner
Water Resource Agent
Idaho Department of Water Resources
Phone: (208) 334-2190
Email: aaron.skinner@idwr.idaho.gov

Enclosures: Relinquishment of Permit form
Water Permit Report and Map



State of Idaho

DEPARTMENT OF WATER RESOURCES

Western Region • 2735 Airport Way • Boise, Idaho 83705-5082

Phone: (208) 334-2190 • Fax: (208) 334-2348 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

January 30, 2018

CLARRISSA GARRICUS AND/OR
SCOTT GARRIGUS
2845 S AVONDALE AVE
NAMPA, ID 83686-1410

RE: Scheduling Field Exam for Water Right Permit No. 63-31891

Dear Permit Holder:

We are planning to conduct water right examinations in the vicinity of the above-referenced permit **this season**. An examination is needed to verify the water use in order to issue a water right license.

The above-referenced permit authorizes **5.00 cfs** for an **UNNAMED DRAIN**, tributary of the **BOSIE RIVER** for **DIVERSION TO STORAGE, WILDLIFE, WILDLIFE STORAGE, WATER QUALITY IMPROVEMENT, and WATER QUALITY IMPROVEMENT STORAGE** use. **If you have developed a beneficial use and still own the place of use property, please contact me at your earliest convenience to schedule an examination.**

If you did not develop a beneficial use of water under the permit during the beneficial use period, a license cannot be issued and the permit should be relinquished. If that use was developed, but have ceased using the water and you currently carry no interest in it, please relinquish the permit by submitting the enclosed Relinquishment of Permit form (no fee required).

Please contact me within the next thirty (30) days at (208) 334-2190 to either schedule an examination or submit a relinquishment form. If the Department does not received a response by February 28, 2018, your permit will become void. Thank you for your attention to this matter.

Sincerely,

Aaron Skinner
Water Resource Agent
Idaho Department of Water Resources
Phone: (208) 334-2190
Email: aaron.skinner@idwr.idaho.gov

Enclosures: Relinquishment of Permit form
Water Permit Report and Map

IDAHO DEPARTMENT OF WATER RESOURCES
WESTERN REGION
2735 Airport Way
Boise, Idaho 83705-5082

RETURN SERVICE REQUESTED

Returned with letter dated January 30, 2018 (2845 A Vondale Ave) FEB 05 2018
New letter sent to parcel address February 8, 2018 (2452D Boise River) WESTERN REGION

RECEIVED

FIRST CLASS



U.S. POSTAGE PITNEY BOWES
ZIP 83702 \$ 000.68⁰
02 1W 0001393356 JAN 30 2018

8066661410 PM
83705-5082

NIXIE 841 NFE 1 1810001/30/18
NOT DELIVERABLE AS ADDRESSED
RETURN TO SENDER
UNABLE TO FORWARD
BC: 83705508235 *0636-02543-30-38