

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-34002
Exam Date: 3/23/2017

1. Current Owner:
BANBURY MEADOWS LLC C/O BRIAN HOFF
1840 N LAKES AVE MERIDIAN ID 83642 (208)884-2002

2. Accompanied by: Brian Hoff
Phone No: (208) 884-2002
Address: 1840 N LAKES AVE MERIDIAN ID 83642
Relationship to Permit Holder: Co-Owner/Developer

3. SOURCE:
GROUND WATER

TRIBUTARY:

B. OVERLAP REVIEW

- Other water rights with the same place of use: 63-192, 63-19425, 63-216C, and 63-31690
- Other water rights with the same point-of-diversion: 63-31690

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

GROUND WATER NE¼SE¼ Sec. 20, Twp 04N, Rge 01E, B.M. ADA County
GROUND WATER NE¼SE¼ Sec. 20, Twp 04N, Rge 01E, B.M. ADA County
GROUND WATER L1 (NE¼NE¼) Sec. 19, Twp 04N, Rge 01E, B.M. ADA County
GROUND WATER L1 (NE¼NE¼) Sec. 19, Twp 04N, Rge 01E, B.M. ADA County
GROUND WATER L7 (SW¼NE¼) Sec. 20, Twp 04N, Rge 01E, B.M. ADA County
GROUND WATER SW¼NW¼ Sec. 20, Twp 04N, Rge 01E, B.M. ADA County
GROUND WATER L6 (SE¼NW¼) Sec. 20, Twp 04N, Rge 01E, B.M. ADA County

Method of Determination: Field exam, current taxlot data, and aerial imagery.

2.

PLACE OF USE: AESTHETIC 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	
04N	01E	19	X L 1			X													
04N	01E	20			X L 7			X L 5	X	X L 6					X	X			

Method of Determination: Field exam, current taxlot data, and aerial imagery.

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.

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

*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
NA	NA	NA	NA	NA	NA	NA

2. Measurements: NA; Gravity flow system that uses mitigated surface water for evaporative consumptive use. GW seeps into the base of each pond, therefore, immeasurable.

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method: NA

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NA

2. Volume Calculations for Other Uses: Seven (7) Aesthetic Storage Ponds

Total Storage Pond Surface Area – 16.5 acres

Maximum Bearing Depth – 18 feet

Average Depth of Pond – 7.2 feet (18 ft. X 0.40)

Pond Capacity – 118.8 (16.5 acres X 7.2 feet)

RECOMMEND STORAGE VOLUME OF 60.3 AFA (118.8 AF – 58.5 AF that is already licensed)**G. NARRATIVE/REMARKS/COMMENTS****BACKGROUND**

This permit is a byproduct of WR no. 63-31690. On 5/14/2014 Department staff performed a field exam for WR no. 63-31690 and found that the provided mitigation was less than the volume necessary to meet consumptive use requirements for the seven (7) ponds developed in the Banbury Golf Course.

MITIGATION

Mitigation for the consumptive use of the water for the seven (7) aesthetic storage ponds is provided by Warm Springs Ditch Company irrigation WR nos. 63-192, 63-19425, and 63-216C as approved by Transfer no. 79654. The mitigated water of 48.0 af is diverted from the Boise River and discharged into the headwaters of Warm Springs Creek. Warm Springs Creek discharges water through a 60" culvert pipe to an aesthetic storage pond adjacent to Hole No. 9 in the Banbury Golf Course.

A pond analysis was completed using a surface area of 16.5 acres that was calculated in ArcMap. Weather Station Boise 7 N (NWS—101017) provided precipitation deficit data that estimated the evaporation loss of 29.1 af. Therefore, mitigation is sufficient for consumptive use. The pond capacity was determined by using a maximum depth of 18 feet provided by the bearing zone information on the permit. During the field exam, I spoke with Mr. Hoff and we estimated the pond depth of 18 feet and concluded the ponds were bowl shaped. These parameters established an average depth of 7.2 feet and pond capacity of 118.8 af as noted in Section F of this report. WR no. 63-31690 is limited to 58.5 af, so **60.3 af is recommended for licensing.**

OWNERSHIP

The permit is in the name of Banbury Meadows LLC with Brain Hoff as the co-owner. Current Ada County taxlot data confirms Banbury Meadows LLC owns the POU and is registered with the ID SOS as Brain Hoff the registered agent.

OVERLAP ANALYSIS

POD – WR no. 63-31690 overlaps with this right and has a combine use limit of 118.8 AFA.

POU – WR nos. 63-192, 63-19425, 63-216C, and 63-31690 overlap with this right. WR nos. 63-192, 63-19425, and 63-216C were irrigation rights that were transferred to aesthetic storage for mitigation purposes. WR no. 63-31690 and this permit have combine use not to exceed a pond surface area of 16.5 acres.

CONDITIONS

Conditions 930 and 936 were added to existing language on the permit and forwarded to licensing. Also added condition 219. Condition R05 was removed at licensing as W063 watermaster does not have authority to regulate groundwater at the time of licensing. All other permitted conditions were also forwarded to licensing.

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
AESTHETIC STORAGE	01/01 to 12/31		60.3 AF
<u>Totals:</u>			60.30 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

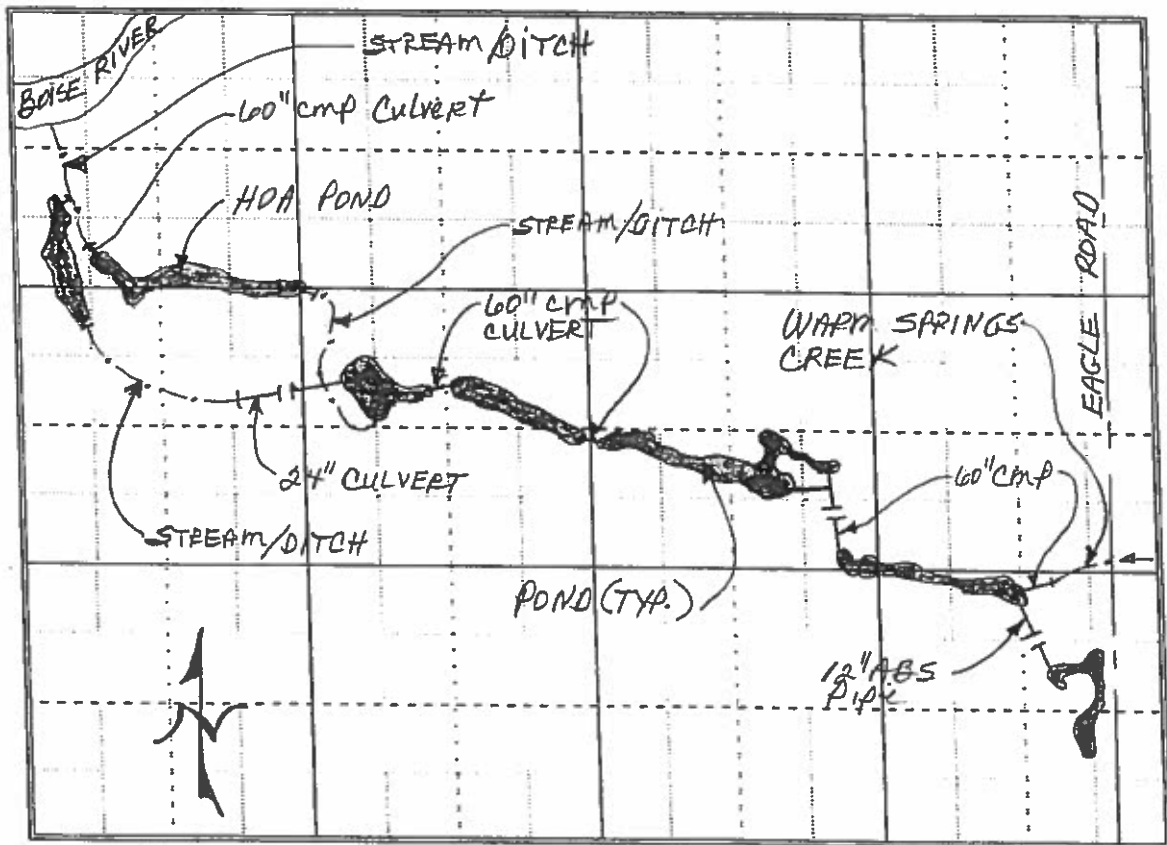
I. AUTHENTICATION

Field Examiner's Name Aaron Skinner Date 3/23/2017

Reviewer Patrick Kelly Date 4-6-2017

Form 219 07/11

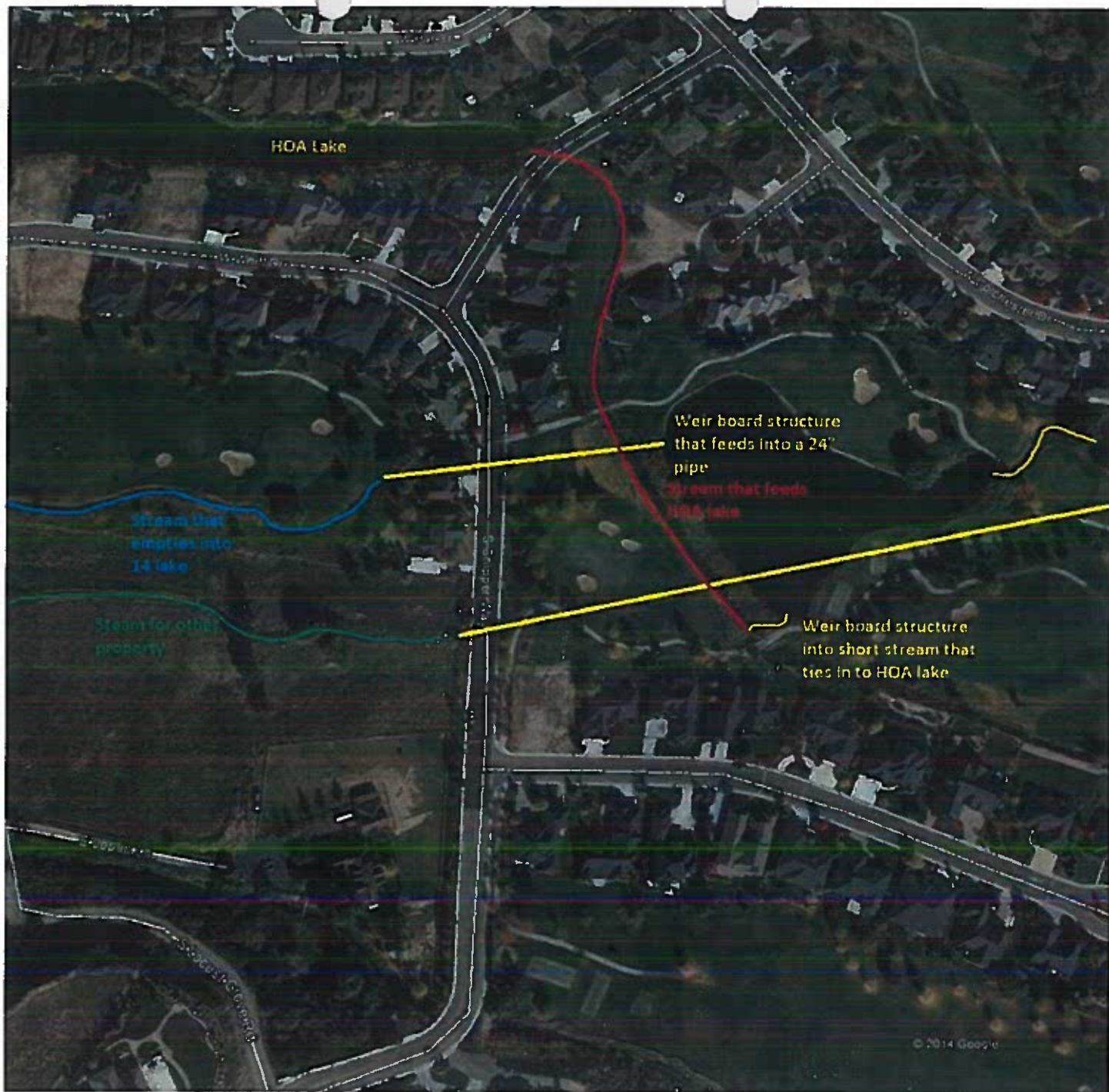
3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.

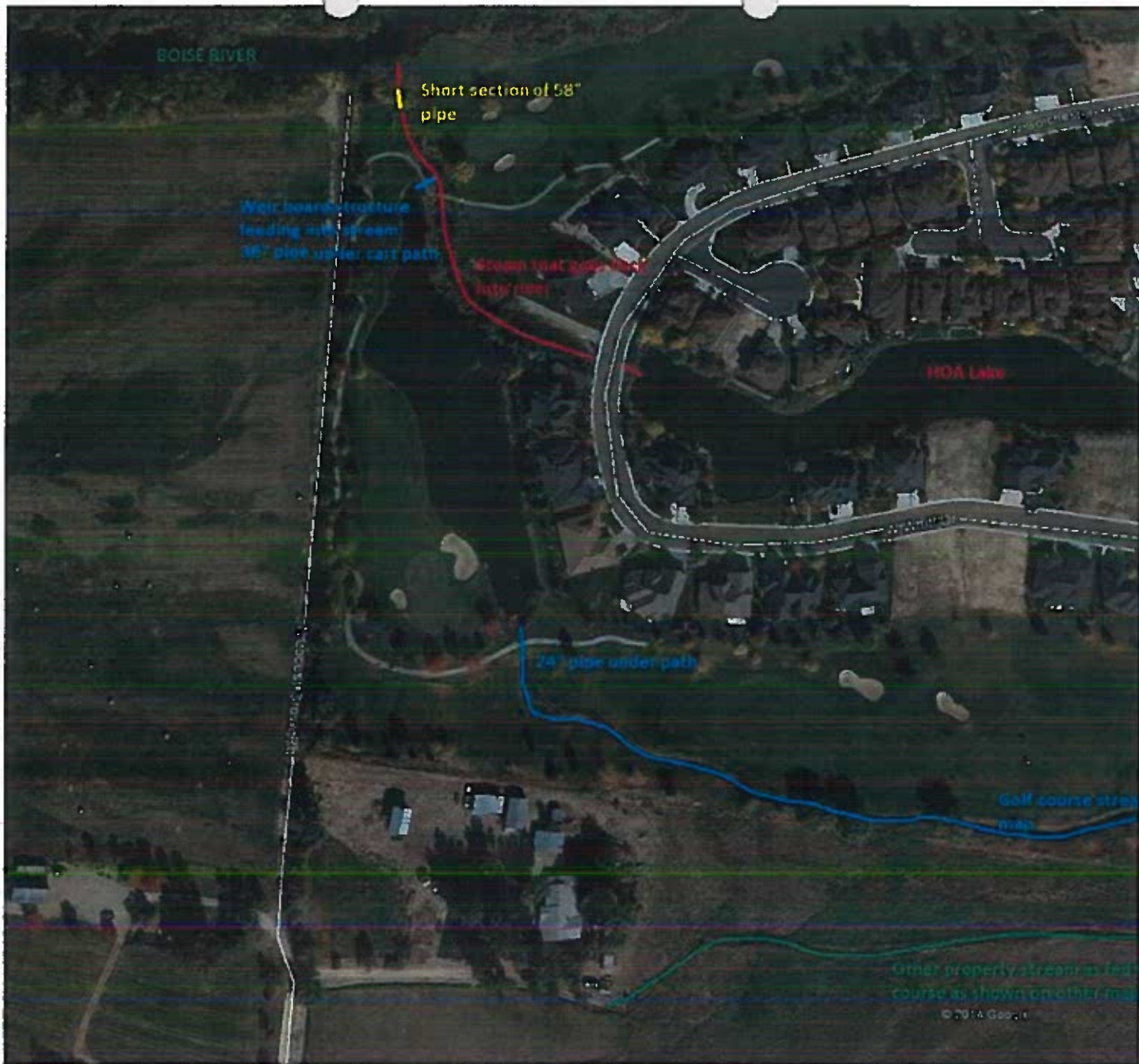


Scale: 1" = NTS

- ☐ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
- ☒ Aerial photo attached (required for irrigation of 10+ acres)
- ☒ Photo of diversion and system attached







Brian Hoff

From: Brian Hoff <brianh@hoffc.com>
Sent: Wednesday, June 25, 2014 9:53 AM
To: Dave Shaw @ ERO
Cc: Todd Armstrong
Subject: FW: Lakes

From: Clint Travis [mailto:greenkeeper3@hotmail.com]
Sent: Sunday, May 04, 2014 7:41 AM
To: Brian Hoff; Jake Smith
Subject: Lakes

Brian/Jake,

Enclosed you will find drawings of the lakes for your approval before they are forwarded on. Please let me know if you feel additional detail is warranted.

63-31690
GOV'T. LOTS 1, 5, 6, & 7

AERIAL PHOTO - 2013



0 1,650 3,300 6,600 9,900 13,200
Feet

NESE 7

NW 5

NW 6

SE 3

NESE 8

POD and POU for Permit No. 63-34002

18
SESE 8

SWSW

SESW

SWSE

SESE

SESE

NENE

NWNW

NENW 3

NWNE 2

NENE 1

NENE 1

NWNW 5

NENW

SENE

SENE 8

SENE

SWNW

SENW 6

SWNE 7

UNCLD

20

NESE

NWSW

NESW

NWSE

NESE

SESE

SWSW

SESW

SWSE

SESE

Legend

■ Point of Diversions

□ Place of Use

NW

NENW

NWNE

NENE

SENE

SWNW

SENW

SWNE

SENE

The USDA, Forest Service, Pacific Northwest Research Station, Portland, Oregon, is the lead agency for the development and implementation of the National Forest Management Act (NFMA) and the National Forest Planning Act (NFPA). The USDA, Forest Service, Pacific Northwest Research Station, Portland, Oregon, is the lead agency for the development and implementation of the National Forest Management Act (NFMA) and the National Forest Planning Act (NFPA).

500 1,000 2,000 Feet

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	63-34002
REVIEWER	Aaron Skinner
DATE	3/21/2017

User Input
Calculated value
Formula Explanations

INPUTS

Pond Surface Area (AC.)	16.5	AC.
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Pond Surface Area (SQ. FT.)	718740	SQ. FT.
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I used the following method to obtain my Soil Classification information:	NRCS Web Soil Survey	
My Soil Classification is	GrndWtr	
Suggested Seepage Rate (FT./DAY)	0.0000	FT./DAY

Formula: (Surface Area X Seepage Rate) X 7.48 = Gallons Per Day Loss
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Convert to GPD	0	GPD
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Total Seepage Loss (AFA)	0.0	AFA
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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.

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	63-34002
REVIEWER	Aaron Skinner
DATE	3/21/2017

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

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

Precipitation Deficit

Station:	Boise 7 N (NWS-101017)		
Month	mm/day ¹	Days per month	mm/Month
Jan	-1.34	31	0.00
Feb	-0.72	28	0.00
March	-0.29	31	0.00
April	1.09	30	32.70
May	1.77	31	54.87
June	3.33	30	99.90
July	4.41	31	136.71
August	3.81	31	118.11
September	2.28	30	68.40
October	0.89	31	27.59
November	-1.27	30	0.00
December	-1.76	31	0.00

Total mm/year = 538.28

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.

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

$$\left(\frac{538.28}{304.8} \right) \times 16.50 = 29.1 \text{ AFA}$$

Total Storage Calculations

FILE NUMBER	63-34002
REVIEWER	Aaron Skinner
DATE	3/21/2017

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.)	16.5	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	7.2	"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)	118.8	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)	0.0	The "Estimated Seepage Loss" is automatically carried over from the "Seepage Loss" sheet.
Estimated Evaporation Loss (AF)	29.1	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	147.9	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)		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)	4.41	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)	0.24	"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)	0.12	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	-498	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	-597	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.

Overlap Analysis for Permit No. 63-34002 POU

Process	Basin/Sequence	Draft	Owner	Source	Use
Water Right	63-12050	N	FROHWERK, ROBERT A	GROUND WATER	
Water Right	63-12062	N	WEEKS, ANNA E; WEEKS, EDWARD R; YORGASON, J RAMON; YORGASON, MARIYHN	GROUND WATER	
Water Right	63-12095	N	IVORY, DON B; SHRIVER, CHRISTIAN; SHRIVER, HEATHER	GROUND WATER	
Water Right	63-15971	N	DAVISON, BESSIE; DAVISON, JERRY	GROUND WATER	
Water Right	63-16553	N	SCHURTSMEIER, BLANCHE; SCHURTSMEIER, LEE	GROUND WATER	
Water Right	63-16554	N	SCHURTSMEIER, BLANCHE; SCHURTSMEIER, LEE	GROUND WATER	
Water Right	63-16555	N	SCHURTSMEIER, BLANCHE; SCHURTSMEIER, LEE	GROUND WATER	
Water Right	63-17166	N	WEEKS, ANNA E; WEEKS, EDWARD R; YORGASON, J RAMON; YORGASON, MARIYHN	GROUND WATER	
Water Right	63-17409	N	IVORY, DON B; SHRIVER, CHRISTIAN; SHRIVER, HEATHER	GROUND WATER	
Water Right	63-18787	N	BLENDU, BETTY M; BLENDU, RONALD D; HOFF, BRIAN C; HOFF, KAREN B; RODECK, ARLEIGH E; WELKER, JEANETTE L; WELKER, KENNETH J	GROUND WATER	
Water Right	63-18803	N	STRENG, BARBARA J; STRENG, C RONALD	GROUND WATER	
Water Right	63-18888	N	MNIER, TIMOTHY L	GROUND WATER	
Water Right	63-18936	N	O KEEFE, CAROLYN R; O KEEFE, JAMES L	GROUND WATER	
Water Right	63-18949	N	WALTERS, LUNE S	GROUND WATER	
Water Right	63-19202	N	LEIGHTON, JAMICE; LEIGHTON, TERRANCE L	GROUND WATER	
Water Right	63-19219	N	LOHLEY, MERLE H	GROUND WATER	
Water Right	63-19535	N	JOHNSON, LARRY L; JOHNSON, PEGGY L	GROUND WATER	
Water Right	63-19978	N	CHAMBERLAIN, SOLEURETTE B; HUTTON, ANN; HUTTON, CLYDE E; SANDUSKY, LAWRENCE	GROUND WATER	
Water Right	63-20859	N	DOEREN, RANNEY C; DOEREN, WILLIAM A; THE ALSAM TRUST	GROUND WATER	
Water Right	63-211	N	BARBER, J F; CAMPBELL, SCOTT L; CANFIELD, CARLENE; CANFIELD, MARK; CONTRACTORS EQUIPMENT SUPPLY CO; NORMACHEA LTD PARTNERSHIP; LARSEN, CLARENCE T	BOISE RIVER	
Water Right	63-22743	N	OVERTON, WANDA R; OVERTON, WILLIAM C	GROUND WATER	
Water Right	63-22742	N	OVERTON, WBA	GROUND WATER	
Water Right	63-22875	N	SAUNDERS, CLO F; SAUNDERS, LORNE C	GROUND WATER	
Water Right	63-24128	N	JONES, JAMES L	GROUND WATER	
Water Right	63-25732	N	CAMPBELL, SCOTT L; CANFIELD, CARLENE; CANFIELD, MARK; CONTRACTORS EQUIPMENT SUPPLY CO; NORMACHEA LTD PARTNERSHIP	GROUND WATER	
Water Right	63-27966	N	CAVEN, JERRY L	GROUND WATER	
Water Right	63-30308	N	BLACK, GLEN; BLACK, PEGGY	GROUND WATER	
Water Right	63-31090	N	BANBURY MEADOWS LLC	GROUND WATER	
Water Right	63-32306	N	CORP OF THE PRESIDING BISHOP - LINDLEY, MERLE H	GROUND WATER	
Water Right	63-32800	N	RUFF, KIMBERLY; RUFF, RUSSELL	GROUND WATER	
Water Right	63-33107	N	LINDLEY, MERLE H	GROUND WATER	
Water Right	63-33108	N	CAPITAL DEVELOPMENT INC; LINDLEY, MERLE H	GROUND WATER	
Water Right	63-34002	Y	BANBURY MEADOWS LLC	GROUND WATER	
Water Right	63-38038	N	SHEEHAN, MARRETTA; SHEEHAN, RICHARD; SPENCER, JOHN R; SPENCER, SHIRLEY	GROUND WATER	
Water Right	63-9907	N	ALMAS, ALICE E; ALMAS, CHARLES F; KANALEY, JOHN A; KANALEY, PAULA M	GROUND WATER	

NENE NWNW SWNE SENE NENW NWNW SWNW SENW NESW NWSW SWSW SESW NENE NWSW SW

overlap; combine use limits in conditions

Overlap Analysis for Permit No. 63-34002 POU

Process	Basin/Sequence	Draft	Owner	Source	Use
Water Right	63-12050	N	FROHWERK, ROBERT A	GROUND WATER	DOMESTIC
Water Right	63-12062	N	FROHWERK, ROBERT A	GROUND WATER	IRRIGATION
Water Right	63-12095	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL
Water Right	63-12105	N	BARBER WATER CO INC; CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL
Water Right	63-12186	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL
Water Right	63-12391	N	CREAMER, MICHAEL C; SOUTH COUNTY WATER CO; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL
Water Right	63-12405	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL
Water Right	63-12680	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL
Water Right	63-12682	N	WEEKS, ANNA E; WEEKS, EDWARD R; YORGASON, J RAMON; YORGASON, MARIYHN	GROUND WATER	IRRIGATION
Water Right	63-12695	N	IVORY, DON B; SHRIVER, CHRISTIAN; SHRIVER, HEATHER	GROUND WATER	WILDLIFE
Water Right	63-11185	N	MOFFATT THOMAS BARRETT ROCK & FIELDS CHTD; SETTLERS IRRIGATION DISTRICT	GROUND WATER	IRRIGATION
Water Right	63-11413	N	CITY OF EAGLE; FLOATING FEATHER HILLS INC; TREASURE VALLEY VILLAGE	GROUND WATER	MUNICIPAL
Water Right	63-11558	N	UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL
Water Right	63-11737	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL
Water Right	63-11922	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL
Water Right	63-12039	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL
Water Right	63-12055	Y	UNITED WATER IDAHO INC	BOISE RIVER	MUNICIPAL
Water Right	63-12187	N	EAGLE WATER CO INC	GROUND WATER	MUNICIPAL
Water Right	63-12162	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL
Water Right	63-12173	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL
Water Right	63-12181	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL
Water Right	63-12295	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL
Water Right	63-12363	N	UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL
Water Right	63-12378	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL
Water Right	63-12416	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL
Water Right	63-12448	N	CITY OF EAGLE	GROUND WATER	MUNICIPAL
Water Right	63-12559	N	EAGLE WATER CO INC	GROUND WATER	MUNICIPAL
Water Right	63-12560	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL
Water Right	63-15971	N	DAVISON, BESSIE; DAVISON, JERRY	GROUND WATER	DOMESTIC
Water Right	63-16189	N	HAMMING, RAYMOND; JARVIS, R L; RICHARDSON, KATHRYN	BOISE RIVER	IRRIGATION
Water Right	63-16553	N	SCHURTSMEIER, BLANCHE; SCHURTSMEIER, LEE	GROUND WATER	DOMESTIC
Water Right	63-16553	N	SCHURTSMEIER, BLANCHE; SCHURTSMEIER, LEE	GROUND WATER	STOCKWATER
Water Right	63-16554	N	SCHURTSMEIER, BLANCHE; SCHURTSMEIER, LEE	GROUND WATER	DOMESTIC
Water Right	63-16554	N	SCHURTSMEIER, BLANCHE; SCHURTSMEIER, LEE	GROUND WATER	STOCKWATER
Water Right	63-16555	N	SCHURTSMEIER, BLANCHE; SCHURTSMEIER, LEE	GROUND WATER	IRRIGATION
Water Right	63-16555	N	SCHURTSMEIER, BLANCHE; SCHURTSMEIER, LEE	GROUND WATER	STOCKWATER
Water Right	63-169F	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	BOISE RIVER	MUNICIPAL
Water Right	63-17166	N	WEEKS, ANNA E; WEEKS, EDWARD R; YORGASON, J RAMON; YORGASON, MARIYHN	GROUND WATER	DOMESTIC
Water Right	63-17166	N	WEEKS, ANNA E; WEEKS, EDWARD R; YORGASON, J RAMON; YORGASON, MARIYHN	GROUND WATER	STOCKWATER
Water Right	63-17327	N	HEAPPHILL, DENISE M; HEAPPHILL, WILLIAM E; SCHMIDT, REIN; THORTON, ELSIE M; THORTON, KARL	GROUND WATER	DOMESTIC
Water Right	63-17409	N	IVORY, DON B; SHRIVER, CHRISTIAN; SHRIVER, HEATHER	GROUND WATER	DOMESTIC
Water Right	63-18787	N	BLENDU, BETTY M; BLENDU, RONALD D; HOFF, BRIAN C; HOFF, KAREN B; RODECK, ARLEIGH E; WELKER, JEANETTE L; WELKER, KENNETH J	GROUND WATER	DOMESTIC
Water Right	63-18803	N	STRENG, BARBARA J; STRENG, C RONALD	GROUND WATER	DOMESTIC
Water Right	63-18888	N	MNIER, TIMOTHY L	GROUND WATER	DOMESTIC
Water Right	63-18936	N	O KEEFE, CAROLYN R; O KEEFE, JAMES L	GROUND WATER	DOMESTIC

NENE NWNW SWNE SENE NENW NWNW SWNW SENW NESW NWSW SWSW SESW NENE NWSW SW

overlap, but limiting cov

Newly developed Sub; no overlap
no overlap; south of golf course.

[illegible]

[illegible]

Overlap Analysis for Permit No. 63-34002 POU

Process	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
Water Right	63-10387	N	BANBURY HOMEOWNERS ASSN INC, HOFF COMPANIES INC	GROUND WATER																		
Water Right	63-17345	N	LUNDGREN, DEBRA; LUNDGREN, PER; SVEDBERG, DEBRA	GROUND WATER																		
Water Right	63-18431	N	CLARK, HARRIET E	GROUND WATER																		
Water Right	63-18459	N	STOUT, FRED M; STOUT, JIM E	GROUND WATER																		
Water Right	63-18460	N	COTTONWOOD CREEK LLC; NAGY SPRINGCREEK LLC; STOUT, FRED M; STOUT, JIM E	GROUND WATER																		
Water Right	63-18951	N	WALTERS, JUNE S	GROUND WATER																		
Water Right	63-26147	N	DILLARD, GEORGE; DILLARD, PAULINE	GROUND WATER																		
Water Right	63-30213	N	MOORE, JOY A; MOORE, ROBERT M	GROUND WATER																		
Water Right	63-31690	N	BANBURY MEADOWS LLC	GROUND WATER																		
Water Right	63-34002	Y	BANBURY MEADOWS LLC	GROUND WATER																		
Water Right	63-5021	N	STRONG, GLEN L	GROUND WATER																		

No overlap; south of pond

No overlap; south of pond

No overlap; POU is subdivision west of
Overlap; Combine use limits in
Condition

Overlap Analysis for Permit No. 63-34002 POU

Process	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	TotalAcres
Water Right	63-10150	N	BARBER WATER CO INC, CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-10386	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-10387	N	BANBURY HOMEOWNERS ASSN INC, HOFF COMPANIES INC	GROUND WATER	DOMESTIC																	
Water Right	63-10387	N	BANBURY HOMEOWNERS ASSN INC, HOFF COMPANIES INC	GROUND WATER	FIRE PROTECTION																	
Water Right	63-10387	N	BANBURY HOMEOWNERS ASSN INC, HOFF COMPANIES INC	GROUND WATER	IRRIGATION																	
Water Right	63-10391	N	CREAMER, MICHAEL C; SOUTH COUNTY WATER CO; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-10405	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-11185	N	MOFFATT THOMAS BARRETT ROCK & FIELDS CHTD; SETTLERS IRRIGATION DISTRICT	GROUND WATER	IRRIGATION																	
Water Right	63-11558	N	UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-12039	N	CITY OF MERIDIAN	GROUND WATER	MUNICIPAL																	
Water Right	63-12055	Y	UNITED WATER IDAHO INC	BOISE RIVER	MUNICIPAL																	
Water Right	63-12147	N	EAGLE WATER CO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-12363	N	UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-12559	N	EAGLE WATER CO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-144D	N	FEHL-HABER, DOROTHY; MEEK, JANIS; STARWOOD OF EAGLE INC; STREAMSIDE HOME OWN	BOISE RIVER	IRRIGATION	13.3	2.2			10.4	1.6											
Water Right	63-169F	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	BOISE RIVER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-17345	N	LUNDGREN, DEBRA; LUNDGREN, PER; SVEDBERG, DEBRA	GROUND WATER	DOMESTIC																	
Water Right	63-17863	N	JOHNSON, KAY R; JOSLIN, ANN; LA TULPPE, STEVEN A; ORION HOLDINGS LLC, SOUTH CHAM	GROUND WATER	IRRIGATION																	
Water Right	63-18431	N	CLARK, HARRIET E	GROUND WATER	DOMESTIC																	
Water Right	63-18431	N	CLARK, HARRIET E	GROUND WATER	STOCKWATER																	
Water Right	63-18459	N	STOUT, FRED M; STOUT, JIM E	GROUND WATER	DOMESTIC																	
Water Right	63-18460	N	COTTONWOOD CREEK LLC; NAGY SPRINGCREEK LLC; STOUT, FRED M; STOUT, JIM E	GROUND WATER	DOMESTIC																	
Water Right	63-18951	N	WALTERS, JUNE S	GROUND WATER	DOMESTIC																	
Water Right	63-192	N	WARM SPRINGS DITCH CO	BOISE RIVER	ESTHETIC STORAGE																	
Water Right	63-192	N	WARM SPRINGS DITCH CO	BOISE RIVER	IRRIGATION																	
Water Right	63-19475	N	WARM SPRINGS DITCH CO	BOISE RIVER	ESTHETIC STORAGE																	
Water Right	63-19475	N	WARM SPRINGS DITCH CO	BOISE RIVER	IRRIGATION																	
Water Right	63-19456	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2080	N	CAMPBELL, SCOTT L; SETTLERS IRRIGATION DISTRICT	UNNAMED STREAM	IRRIGATION																	
Water Right	63-216C	N	WARM SPRINGS DITCH CO	BOISE RIVER	ESTHETIC STORAGE																	
Water Right	63-216C	N	WARM SPRINGS DITCH CO	BOISE RIVER	IRRIGATION																	
Water Right	63-230L	N	CAMPBELL, SCOTT L; SETTLERS IRRIGATION DISTRICT	BOISE RIVER	IRRIGATION																	
Water Right	63-231D	N	CAMPBELL, SCOTT L; SETTLERS IRRIGATION DISTRICT	BOISE RIVER	IRRIGATION																	
Water Right	63-2388B	N	UNITED STATES OF AMERICA ACTING THROUGH	BOISE RIVER	IRRIGATION																	
Water Right	63-243E	N	CREAMER, MICHAEL C; SOUTH BOISE MUTUAL IRRIGATION CO LTD; UNITED WATER IDAHO INC	BOISE RIVER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-243H	N	CREAMER, MICHAEL C; SOUTH BOISE MUTUAL IRRIGATION CO LTD; UNITED WATER IDAHO INC	BOISE RIVER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2500	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2506	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2518	N	UNITED STATES OF AMERICA ACTING THROUGH	BOISE RIVER	IRRIGATION																	
Water Right	63-257	N	BINGMAN, ARISSA C; BINGMAN, JACOB; SETTLERS IRRIGATION DISTRICT	BOISE RIVER	IRRIGATION																	
Water Right	63-2576	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2595	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2605	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-26147	N	DILLARD, GEORGE; DILLARD, PAULINE	GROUND WATER	DOMESTIC																	
Water Right	63-2668	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2703	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2808	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2874	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2892	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2915	N	AYRES, MERRILL S; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2954	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	
Water Right	63-2956	N	CREAMER, MICHAEL C; UNITED WATER IDAHO INC	GROUND WATER	MUNICIPAL	X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	

South of golf course

80"

24"

27.3 north of ponds

23 south of ponds
north of ponds

no overlap

mitigation

no overlap

mitigation

no overlap

no overlap

no overlap

[illegible]

[illegible]

FIELD EXAM PHOTOS

Water Right Permit: 63-31690

Field Exam Date: 5-1-14

PLS: SW1/4, SE1/4 Section 20, T.05N, R.01E

Field Examiner: RC



View southeasterly of the concrete headgate structure and 36" slide gate which diverts water from the Boise River to the headwaters of Warm Springs Creek. Mitigation water is conveyed in Warm Springs Creek to the Banbury development aesthetic storage ponds.



View southeasterly of the 36" CMP discharge pipe from the Boise River to the headwaters of Warm Springs Creek.



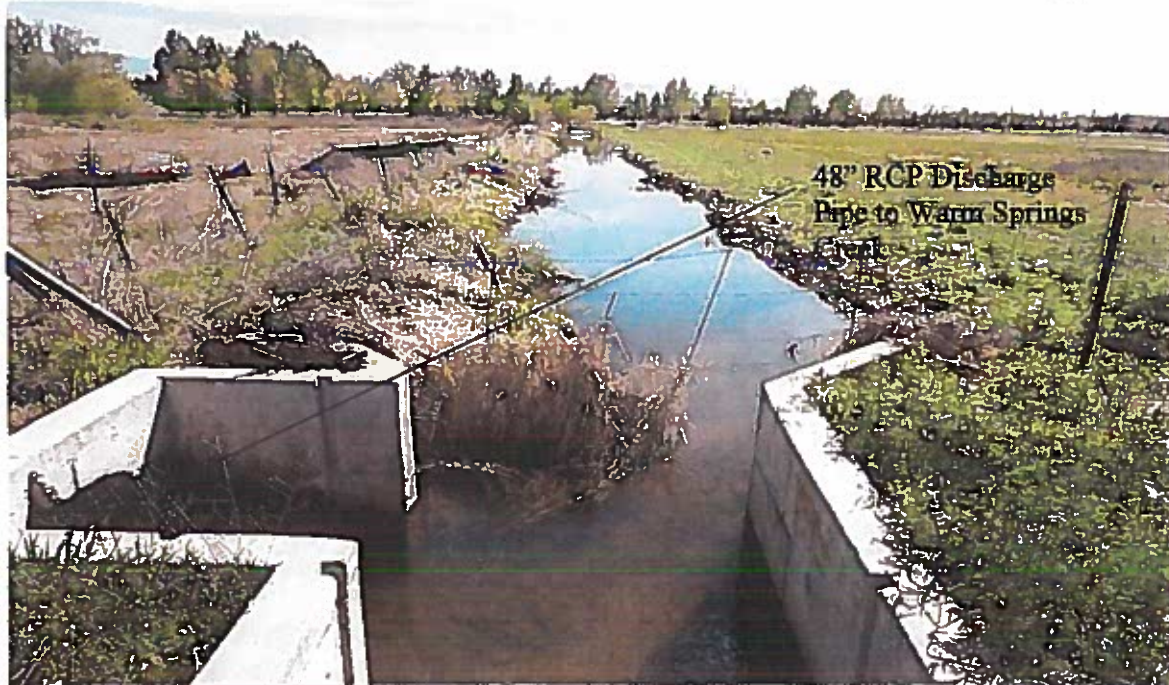
View southwesterly of a concrete flow measuring structure in Warm Springs Creek. The structure is approximately 100' downstream from the 36" CMP discharge pipe from the Boise River. A staff gauge is mounted to the northerly abutment upstream of the flow control boards.



View southeasterly and upstream of the headwaters of Warm Springs Creek and the concrete flow measuring structure.



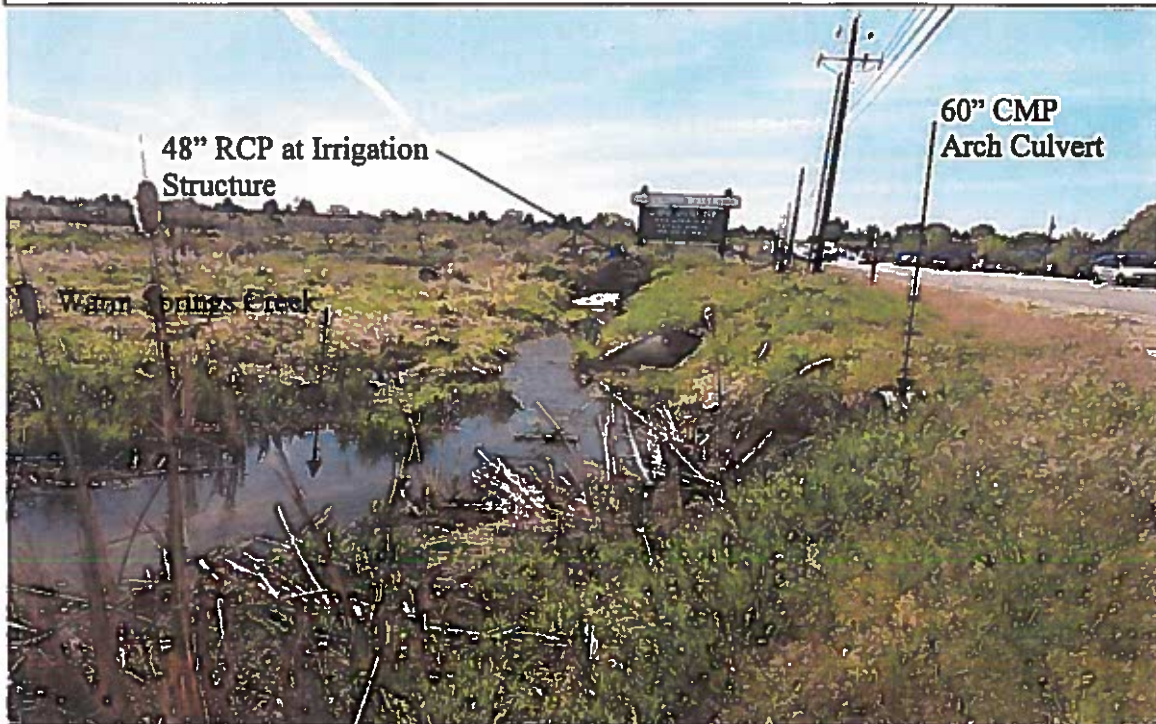
View easterly and upstream of Warm Springs Creek near Eagle Road. A 60" CMP arch culvert conveys Warm Springs Creek across Eagle Road.



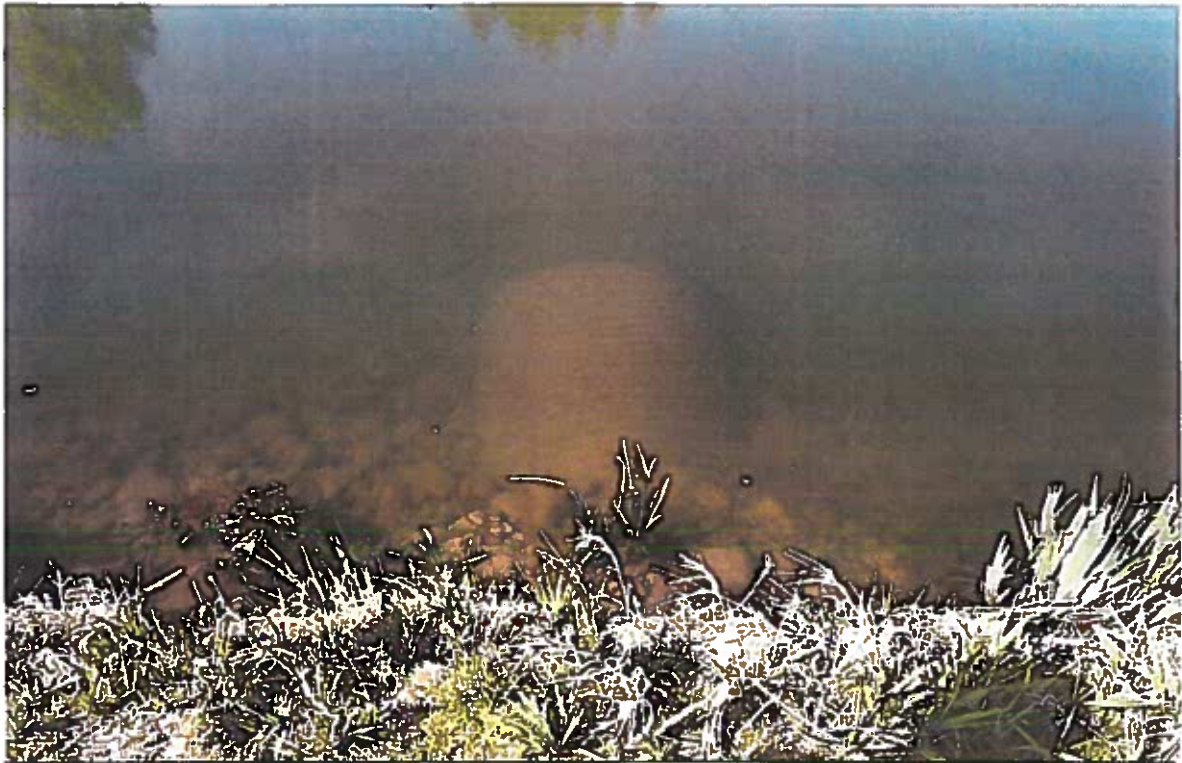
View easterly of a secondary ditch from Warm Springs Creek which provides irrigation water to property owner's adjacent to and west of Eagle Road. Water is diverted back to Warm Springs Creek at the point of crossing Eagle Road on the days when the property owner's are not irrigating.



View southeasterly of the 48" RCP pipe discharging water from the concrete irrigation structure serving the property owner's adjacent to Eagle Road back to Warm Springs Creek.



View southerly of the 48" RCP pipe discharging water back to Warm Springs Creek. The 60" CMP arch culvert conveying Warm Springs Creek across Eagle Road is shown to the right of the photo.



Place of Use: View of a 60" CMP Warm Springs Creek inlet pipe in an aesthetic storage pond adjacent to Hole No. 9 in the Banbury Golf Course. The seven aesthetic storage ponds are hydraulically connected by culvert pipe, streams, and ditches.



Place of Use: View southeasterly of the HOA aesthetic storage pond within the Banbury Meadows development. The 60" CMP discharge pipe is located at the west end of the aesthetic storage pond.



View westerly of the 60" CMP discharge pipe from the HOA aesthetic storage pond. The waterway continues northwesterly through the Banbury Meadows development and Banbury Golf Course prior to discharging to the Boise River.



View northerly of a 48" CMP discharge pipe and channel discharging water from the aesthetic storage ponds to the Boise River.