

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 63-32229

Exam Date: 7/8/2015

1. Current Owner: LAGUNA POINTE HOA INC
9601 W STATE ST #203
BOISE ID 83714
(208)939-6000
2. Accompanied by: Brent Giesler / Steve Peel
Phone No: 208-867-0468
Address: 495 E Riversedge Ln.
Relationship to Permit Holder: Brent Giesler -Board member on the pond committee / Steve Peel- President of HOA

3. SOURCE

GROUND WATER

TRIBUTARY

BOISE RIVER

B. OVERLAP REVIEW

1. Other water rights with the same place of use:

Water Right 63-144A owned by Laguna Pointe is a direct overlap for irrigation, aesthetic storage, and diversion to storage. Water Right 63-144A is the water right that mitigates the evaporative losses necessary for approval of this permit. Water Right 63-32918 owned by Laguna Pointe, is a direct overlap for irrigation of 10.4 acres inside of 117.2 place of use that overlaps this permit. Other overlapping water rights in the same QQs covered under this permit are listed in the attached "POU overlap analysis".

2. Other water rights with the same point of diversion (POD):

Points of diversion for Permit 63-32229 are located within the ponds as ground water is the source. Under transfer 73959, permit 63-32229 is to divert 144.3 AF into the ponds through a point of diversion listed on the Boise River. This POD on the Boise River is the headgate of the Graham Gilbert ditch. This POD on the Boise River is suppose to be shared with four other water rights. Water rights 63-144A and 63-32918 both owned by Laguna Pointe, water right 63-144D owned by Starwood, and water right 63-32917 should be diverting through this POD on the Boise River. A listing of water rights and amounts of water rights that should be diverted through the Graham Gilbert Ditch is attached.

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

GROUND WATER	L3 NE1/4NW1/4	Sec. 21,	Twp 04N,	Rge 01E, B.M.	ADA County
GROUND WATER	L2 NW1/4NE1/4	Sec. 21,	Twp 04N,	Rge 01E, B.M.	ADA County

Method of Determination: GIS and visual inspection

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	21			X		X			X									
04N	01E	21		X	X		X	X		X									
				L 2	L 2			L 3	L 4	L 3									

Method of Determination : GIS and visual inspection

3. YES Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.

YES Aerial Photo Attached (required for irrigation of 10+ acres).

YES Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Ground Water	n/a	n/a	n/a	n/a	n/a

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1. There are no flows associated with this permit to measure.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

E. FLOW CALCULATIONS

There are no flow calculations to be made related to this permit

F. VOLUME CALCULATIONS

Please See attached "Evaporation Loss Calculations" and "Total Storage Calculation" spreadsheet.

43.3 surface acres determined from GIS

Average Depth of ponds as stated from HOA board member Brent Giesler 14.2'.

From Pond loss calculation, volume of the 43.3 surface area lake is 614.86 AF

Estimated ET loss is 76.5 AF

Total required AF is 691.3 AF

Permit annual volume is 690 AF

I recommend 690 AF total annual volume for licensing

G. NARRATIVE/REMARKS/COMMENTS

Permit 63-32229 included aesthetic storage of 690 AF of water from ground water for four ponds totaling 43.3 surface acres at Laguna Pointe. On 7-8-2015, IDWR staff members Steven Visosky and Dan Nelson conducted a field exam for licensing purposes.

Only two of the four ponds originally shown on the permit were located at the property. We attempted to locate the two smaller ponds with Laguna Pointe representative Brent Giesler however we were unable to locate their existence. One small area in the general area of our search was holding a small amount of water but it was full of cat-tails and other wetland vegetation and didn't appear to be a "pond" for aesthetic purposes. The second of the small ponds was not located at all. Upon returning to the office and referring to GIS imagery, the two small ponds listed on the permit do appear to have been filled in during construction of the homes. (see attached photos).

We were shown 3 outflows at the two ponds that were discharging water. Two of the outflows eventually discharged back into the Boise River. The third discharge pipe diverted water from the large pond to a piping system that went under Eagle Road and continued on to "Steamside," a housing community downstream to the west. It was later determined from contact with Rex Barrie, the Boise River Watermaster, that this continuation of water to "Streamside" was now considered an extension of the Graham/Gilbert Ditch. It appeared that an unknown amount of water was leaving the large pond heading to "Streamside".

We visited the east side of the large pond, which would be considered the "upstream side", to see how the Graham/Gilbert ditch was connected to the Boise River and the pond. We were told that the ditch had been cleaned a year or two before but vegetation had grown in. The ditch is fed from an older metal pipe approx 16" in diameter that extended approximately 3 feet into the Boise River in a downward slope. There was no headgate visible from the bank of the river, no locking mechanism, no measuring device on the pipe, nor was there any type of structure in the river to divert the river water into the pipe. It did not appear that the intake pipe in the Boise River for the Graham/Gilbert ditch was set-up to properly deliver the quantity of water required in the conditions of this permit. This intake pipe went underground from the river to the other side of a walking path where it would dump water into the open ditch. This open ditch was approximately 400 yards long and eventually funneled into a metal pipe that would deliver water into the large pond near a stone water feature. There was a very small amount of water, almost undetectable, in the overgrown ditch at the time of our visit. We were told that the ditch ran more water in the spring when there was more water in the river.

We visited the irrigation pump house during our visit which draws water from the large pond and supplies the irrigation for the community. There is a separate water right for the irrigation, (Water Rights 63-144A and 63-32918), and photos were taken of the pumping system. At the time of our visit, the community was pumping approximately 250 GPM, determined from the flowmeter installed on the system

The amount of water approved through the permit was not to exceed 690 af or a surface area of 43.3 acres. It was determined through GIS and aerial photography that the lake had a surface area of 43.3 acres. We were told during our field exam by Brent Gesler that the average depth of the pond had been determined to be 14.2' deep by a consulting firm assisting the HOA with an algae issue. It was determined through the IDWR pond spreadsheet calculations that the total volume required for the ponds including evaporative losses is 691.3 AF. The 1.3 AF difference (0.19%) is a reasonable difference with the assumptions made in the pond analysis spreadsheet and the size of the ponds.

In summary, it appears that Laguna Pointe has a significant amount of water leaving the two ponds, along with irrigation being used from the ponds, with almost no water being delivered through Graham/Gilbert ditch from the Boise River. The ponds therefore appear to be using all groundwater to refill and cover evaporative losses, not water from the Boise River via the Graham/Gilbert Ditch. This permit does not state anything about water leaving the ponds and it was clear from our site visit that water was leaving both ponds, apparently coming from a ground water source. An email was sent to the Watermaster Rex along with the Board members being copied for their reference. Conditions on the license should be modified to reflect the mitigation plan that was originally approved pursuant to water right 144A and Transfer 73959 as water is not being diverted into the ponds.

Conditions

Condition 26A should be removed at licensing per condition requirements. The pond condition stating the limit of the size and capacity of the ponds was clarified to describe the amount of ponds (two). The mitigation condition will be modified to reflect the water not being diverted into the ponds. Condition 123 should be carried over to licensing. Condition x59 was changed slightly to accurately describe the place of use.

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>
AESTHETIC STORAGE	01/01 to 12/31		690.00 AF
	<u>Totals:</u>		690.00 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ Other*

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

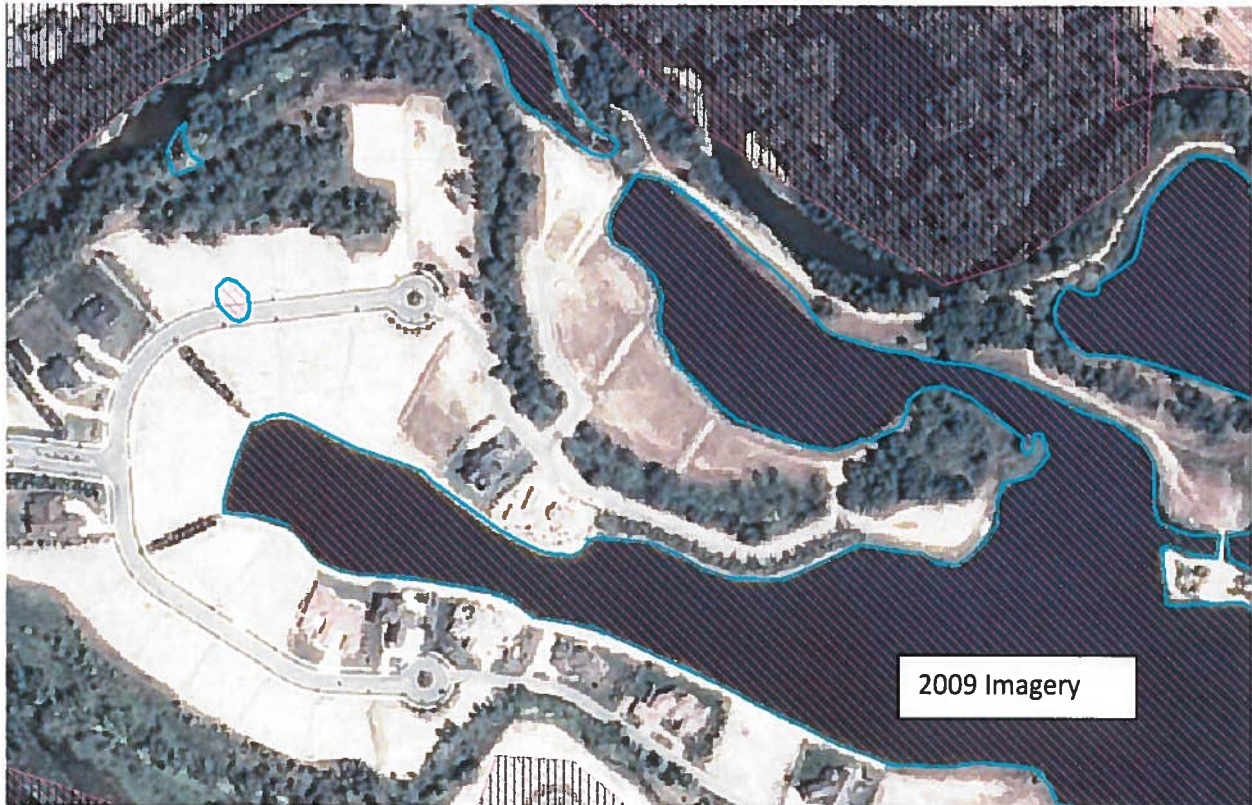
Other*-Conditions need to be modified and added to reflect the diversion of water into the ponds for mitigation. ^{new}

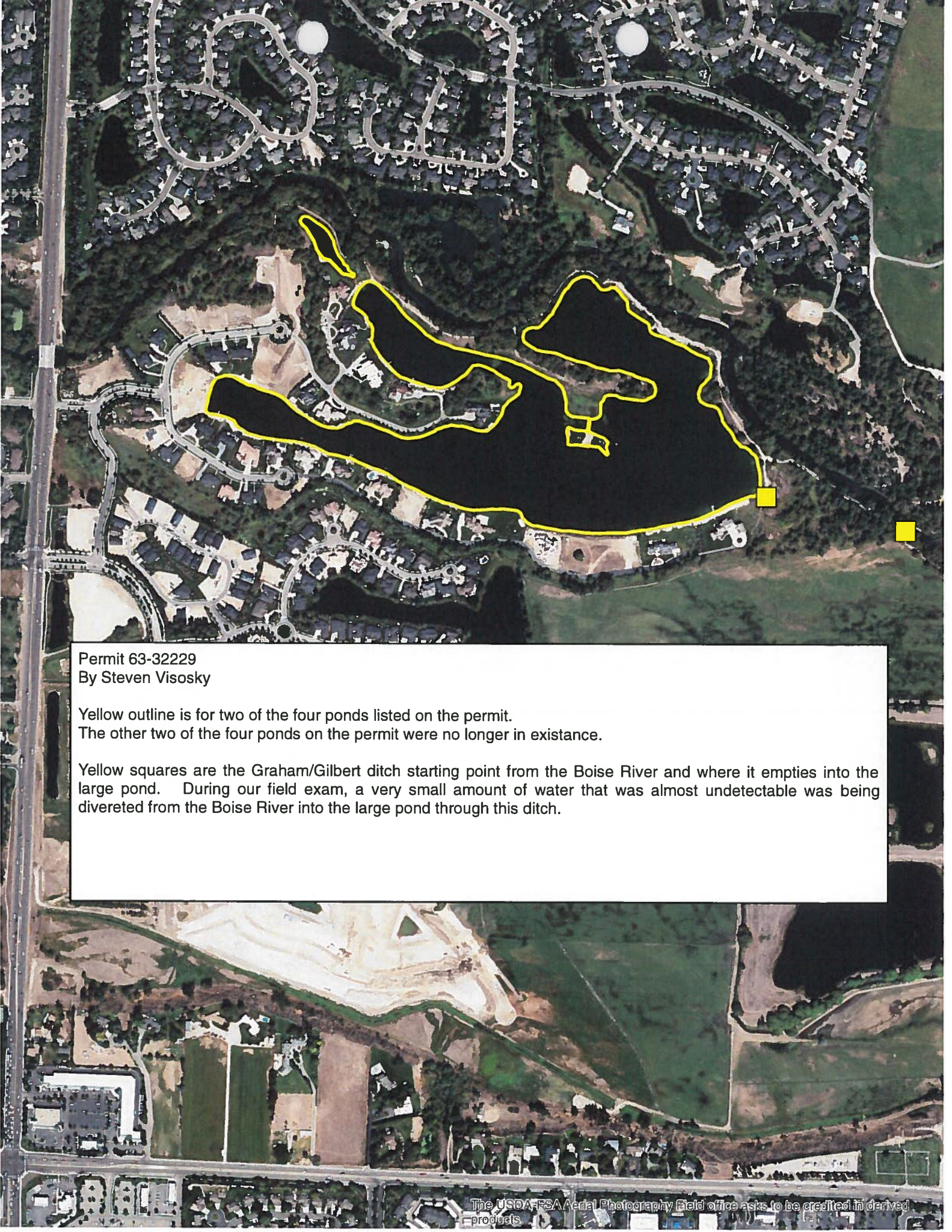
I. AUTHENTICATION Steven Visosky Water Resource Agent

Field Examiner's Name  Date 7/15/2016

Reviewer _____ Date _____

Photos of Laguna Pointe ponds listed on the permit. The top photo shows 2006 imagery where the two small ponds were approximately located. The bottom photo with 2009 imagery shows the two small ponds were buried or no longer in existence.

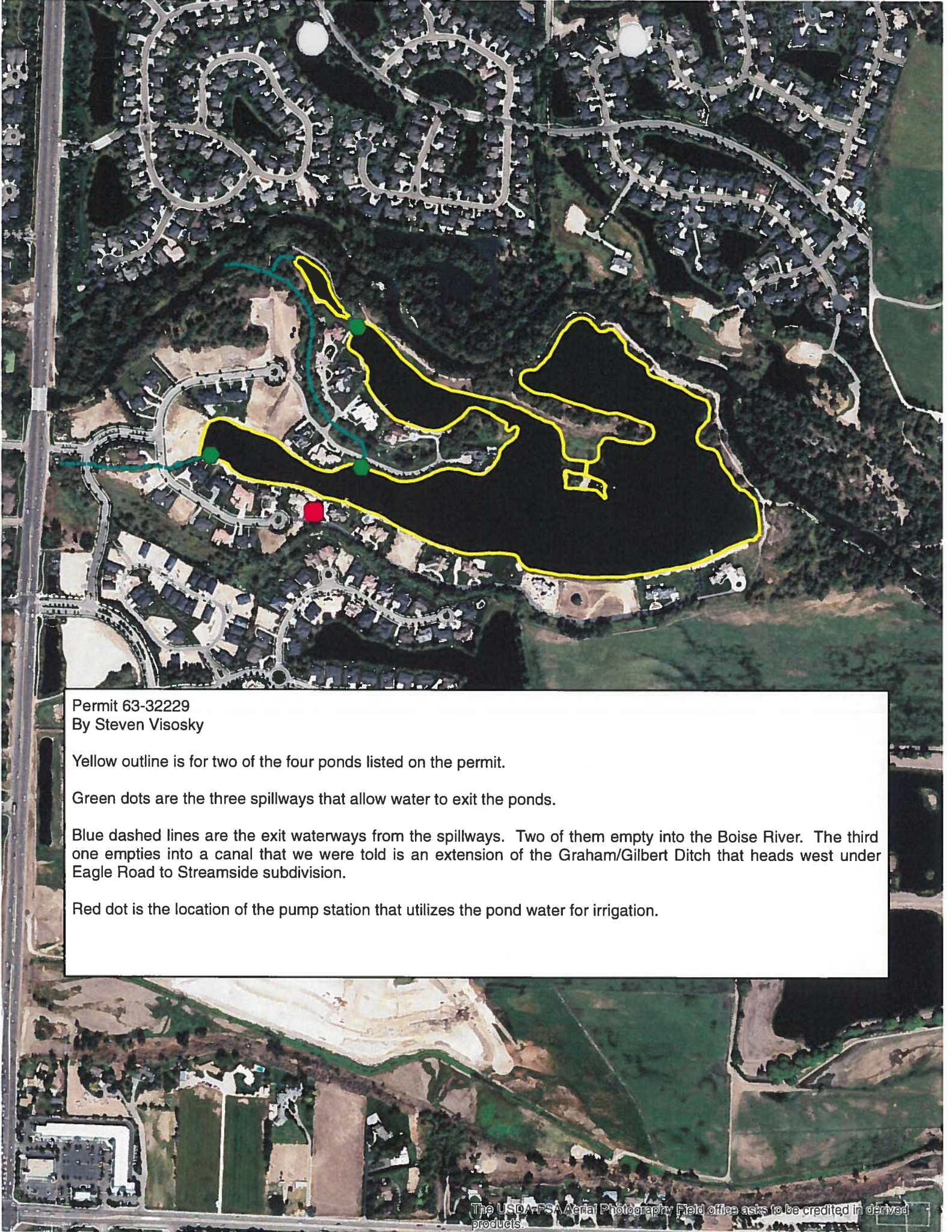




Permit 63-32229
By Steven Visosky

Yellow outline is for two of the four ponds listed on the permit.
The other two of the four ponds on the permit were no longer in existence.

Yellow squares are the Graham/Gilbert ditch starting point from the Boise River and where it empties into the large pond. During our field exam, a very small amount of water that was almost undetectable was being diverted from the Boise River into the large pond through this ditch.



Permit 63-32229
By Steven Visosky

Yellow outline is for two of the four ponds listed on the permit.

Green dots are the three spillways that allow water to exit the ponds.

Blue dashed lines are the exit waterways from the spillways. Two of them empty into the Boise River. The third one empties into a canal that we were told is an extension of the Graham/Gilbert Ditch that heads west under Eagle Road to Streamside subdivision.

Red dot is the location of the pump station that utilizes the pond water for irrigation.

Total Storage Calculations

FILE NUMBER	63-32229
REVIEWER	Steven Visosky
DATE	7/14/2016

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.)	43.3	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	14.2	"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)	614.86	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)	76.5	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	691.3	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)	1.00	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)	4.41	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)	0.63	"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)	0.32	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	453	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. <i>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.</i>
Days Required to Fill the Pond at 13,000 Gallons per Day	-1048	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. <i>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.</i> 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	63-32229
REVIEWER	Steven Visosky
DATE	7/14/2016

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: [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

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 = **538.28**

$$\left(\frac{538.28}{304.8} \right) \times 43.30 = 76.5 \text{ AFA}$$

POU overlap analysis for 63-32229
Created by Steven Visosky 7-14-2016

Water Right	63-144A	N	COAST 2 COAST LLC; GILBERT, WILLIAM; GRAHAM, FRANK N; GRAHAM, JAMES L; JOPLIN, LOIS L; LAGUNA POINTE HOA INC	BOISE RIVER	POU	IRRIGATION	22	20	28.5	24.7	12	117	DIRECT OVERLAP
Water Right	63-176	N	BEDAL, ISAAC; RINGERT CLARK CHARTERED; THURMAN MILL DITCH CO LTD	BOISE RIVER	POU	IRRIGATION		X			X		South of permit
Water Right	63-192	N	WARM SPRINGS DITCH CO	BOISE RIVER	POU	IRRIGATION		X			X		Warm springs Ditch has multiple water rights for irrigation in area, south of permit
Water Right	63-31935	N	DRAINAGE DISTRICT NUMBER FOUR OF ADA COUNTY	WASTE WATER	POU	IRRIGATION		X					Direct overlap over pond
Water Right	63-31936	N	DRAINAGE DISTRICT NUMBER FOUR OF ADA COUNTY	WASTE WATER	POU	IRRIGATION		X					Direct overlap over pond
Water Right	63-32613	N	SIMONSON, LOUISE; WILLIAMSON, BARBARA A; WILLIAMSON, SYLVAN D	BOISE RIVER	POU	IRRIGATION	3					30.5	North side of river
Water Right	63-32918	N	COAST 2 COAST LLC; FEHL-HABER, DOROTHY; LAGUNA POINTE HOA INC; MEEK, JANIS; WESTOVER, HAROLD; WROTEN, JON W; WROTEN, MARIETTA	BOISE RIVER	POU	IRRIGATION	22	20	28.5	24.7	12	117	DIRECT OVERLAP
Water Right	63-33400	Y	ERO RESOURCES CORP; RIVERS END NEIGHBORHOOD ASSN INC	GROUND WATER	POU	IRRIGATION	7					11	North of permit
Water Right	63-32614	N	ERO RESOURCES CORP; HOWELL KISER DEVELOPMENT CORP; RIVERS END NEIGHBORHOOD ASSN INC; SIMONSON, LOUISE; WILLIAMSON, BARBARA A; WILLIAMSON, SYLVAN D	BOISE RIVER	POU	MITIGATION	X	X					Mitigation right does overlap
Water Permit	63-12559	N	EAGLE WATER CO INC	GROUND WATER	POU	MUNICIPAL	X		X	X	X		Different use surrounding property
Water Right	63-10150	N	BARBER WATER CO INC; GIVENS PURSLEY LLP; UNITED WATER IDAHO INC	GROUND WATER	POU	MUNICIPAL	X	X	X	X	X		United water has a portfolio of water rights in the area
Water Right	63-12147	N	EAGLE WATER CO INC	GROUND WATER	POU	MUNICIPAL	X		X	X	X		No active shapefile- Municipal use

Attachment to Final Report

POU overlap analysis for 63-32229
Created by Steven Visosky 7-14-2016

Process	Water Right	Dr aft	Owner	Source	POU	Use	NW NE	SW NE	NEN W	NWN W	SEN W	Total Acres	Notes
Water Permit	63-32229	N	COAST 2 COAST LLC; LAGUNA POINTE HOA INC	GROUND WATER	POU	AESTHETIC STORAGE	X	X	X	X	X		Permit under review
Water Right	63-144A	N	COAST 2 COAST LLC; GILBERT, WILLIAM; GRAHAM, FRANK N; GRAHAM, JAMES L; JOPLIN, LOIS L; LAGUNA POINTE HOA INC	BOISE RIVER	POU	AESTHETIC STORAGE	X	X	X	X	X		DIRECT OVERLAP
Water Permit	63-31515	N	ERO RESOURCES CORP; HOWELL KISER DEVELOPMENT CORP; RIVERS END NEIGHBORHOOD ASSN INC; WILLIAMSON, SYLVAN D	GROUND WATER	POU	AESTHETIC STORAGE	X						North of permit
Water Permit	63-32366	N	B W EAGLE INC; ERO RESOURCES CORP	GROUND WATER	POU	AESTHETIC STORAGE		X			X		South of Permit
Water Permit	63-33400	N	ERO RESOURCES CORP; RIVERS END NEIGHBORHOOD ASSN INC	GROUND WATER	POU	AESTHETIC STORAGE	X						North of Permit
Water Right	63-192	N	WARM SPRINGS DITCH CO	BOISE RIVER	POU	AESTHETIC STORAGE		X			X		south and west of permit
Water Right	63-19425	N	WARM SPRINGS DITCH CO	BOISE RIVER	POU	AESTHETIC STORAGE		X			X		South of permit
Water Right	63-216C	N	WARM SPRINGS DITCH CO	BOISE RIVER	POU	AESTHETIC STORAGE		X			X		South of permit
Water Right	63-31515	Y	ERO RESOURCES CORP; HOWELL KISER DEVELOPMENT CORP; RIVERS END NEIGHBORHOOD ASSN INC; WILLIAMSON, SYLVAN D	GROUND WATER	POU	AESTHETIC STORAGE	X						North of permit
Water Right	63-33400	Y	ERO RESOURCES CORP; RIVERS END NEIGHBORHOOD ASSN INC	GROUND WATER	POU	AESTHETIC STORAGE	X						North of permit
Water Permit	63-33400	N	ERO RESOURCES CORP; RIVERS END NEIGHBORHOOD ASSN INC	GROUND WATER	POU	IRRIGATION	11					24.2	North of permit
Water Right	63-135	N	HAVIRD, C C; RINGERT CLARK CHARTERED; THURMAN MILL DITCH CO LTD	BOISE RIVER	POU	IRRIGATION		X			X		South of permit

Attachment to Final Report

Water that should be entering the Graham / Gilbert Ditch

Please note that the listed uses and amounts do not include the full amount of water and or uses associated with the listed rights. Information provided is only for water diverted through the Graham Ditch.

Water Right 63-144A** (Laguna Pointe HOA)	Irrigation	0.72 CFS	106.7 AF
	Aesthetic Storage		144.3 AF
	<u>Diversion to Storage</u>	<u>2.03 CFS</u>	
	Total	2.03 CFS	251.0 AF

Water Right 63-32918 (Laguna Pointe HOA)	<u>Irrigation</u>	<u>0.32 CFS</u>	<u>46.8 AF</u>
	Total	0.32 CFS	46.8 AF

Water Right 63-144 D (Starwood/Streamside)	Irrigation	0.81 CFS	122.9 AF
	Irrigation storage		11.0 AF
	Irrigation from storage		11.0 AF
	<u>Diversion from storage</u>	<u>0.81 CFS</u>	
	Total	0.81 CFS	133.9 AF

Water Right 63-32917 (Nagy Springcreek LLC)	<u>Irrigation</u>	<u>0.010 CFS</u>	<u>2.2 AF</u>
	Total	0.010 CFS	2.2 AF

Total that should be entering Graham/Gilbert ditch **3.17 CFS** **433.9AF***

*Season of use is 3/1 to 11/15 for all volume except for aesthetic storage of 144.3 AF from water right 63-144A which is 1/1 -12/31.

**Aesthetic Storage and Diversion to Storage under Right 63-144A are for the replacement of evaporative loss for the ponds described under Permit 63-32229 per Transfer 73959.

Point of Diversion overlap for
63-32229 licensing
7/14/2016 Steven Visosky

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



Diversion/Outlet #2.

One of three overflow and diversion valves. Water from this diversion when opened or at high water will go across a road and back into the Boise River.



Side view of the Diversion/Outlet #2 showing the current water level of the lake.

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



Diversion /
Outlet #3.
There is an
open ditch
besides this
diversion along
with a valve
that takes water
from the large
pond to the
small pond and
water
eventually
passes back to
the Boise River.



Another view
of the Outlet/
Diversion #3
with the grate
over the open
ditch before it
goes under
the walking
path. This
view is to the
east into the
large pond.

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



Outlet of #3
Diversion/
Outlet #3 into
the smaller
pond. The
open ditch also
flows into this
area.



A view of the
smaller pond
with water
entering from
the right side
of the picture
and
eventually
exiting to the
Boise River
on the left
side out of
sight behind
the
vegetation .

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



Diversion /
Outlet #1 area.
Water enters a
pipe near the
boat ramp (two
posts on right
side of the boat
ramp) and goes
into to a
diversion box
and then passes
down the
“Graham /
Gilbert” ditch to
Streamside



This is the
diversion box
that controls
the water from
Diversion /
Outlet #1 to the
“Graham /
Gilbert” ditch
that is an
enclosed pipe
that goes
underneath
State street to
the west and
downstream.

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



The furthest east point of the large pond. This pump station was intended to re-circulate water from the pond over a rock water fall that was just out of sight below the bank. Not operating during visit. This is also the general area of where the "Graham/ Gilbert" ditch was to enter the pond.



The area where the "Graham /Gilbert ditch was to first enter the large pond. No water was visible entering the pond at the time of the visit.

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



This is the
“Graham
Gilbert” ditch
where it enters
into a pipe just
before it is to
empty in to the
large pond.
There was a very
small trickle of
water in the ditch
at this time.



Another
view of the
“Graham/
Gilbert”
ditch before
it enters into
the large
pond.

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



This is the point of diversion for the "Graham / Gilbert" ditch where it enters into the Boise River looking from the walking path along the river. Water enters the pipe and then flows under the path to an open trench on the other side of the path.

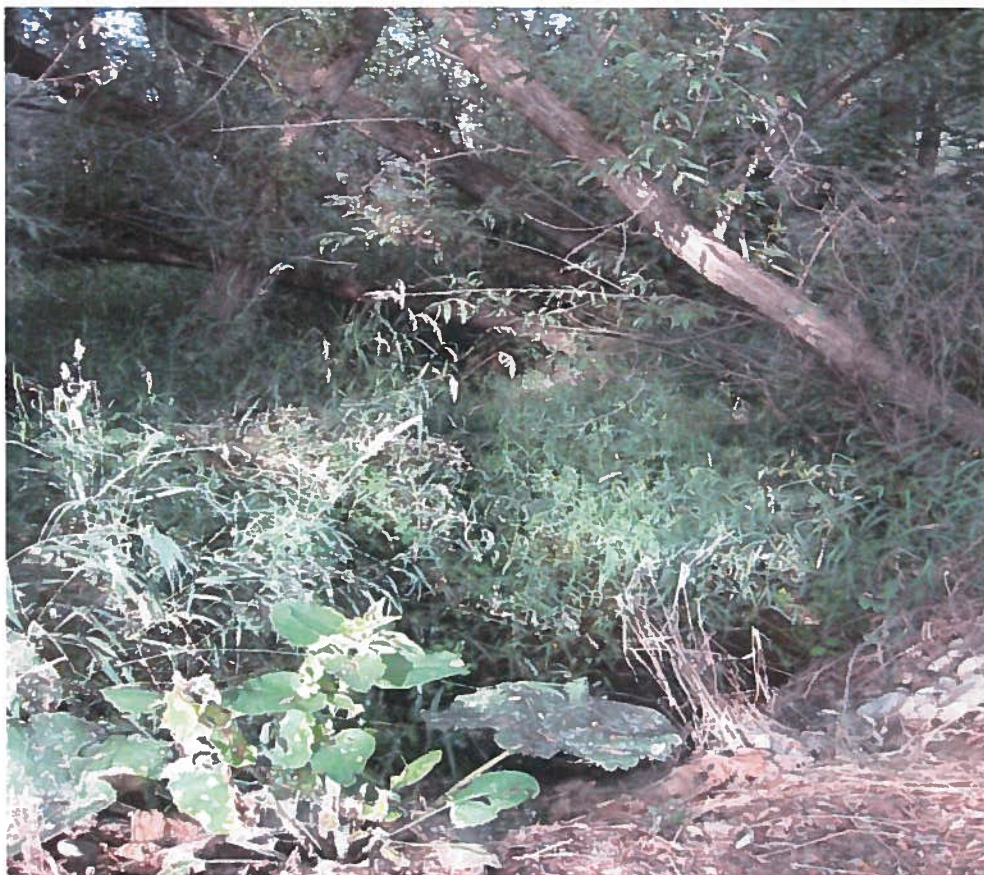


The actual diversion in the river that we assumed is an open ended pipe.

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



The point of diversion for the "Graham/Gilbert" ditch where it goes under the walking path along the river,



The other side of the walking path where the "Graham / Gilbert" ditch pipe empties out into an open ditch.

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



The pump house for the irrigation system. Water is diverted from the large pond to supply the irrigation for Rights 63-144A and 63-32918.

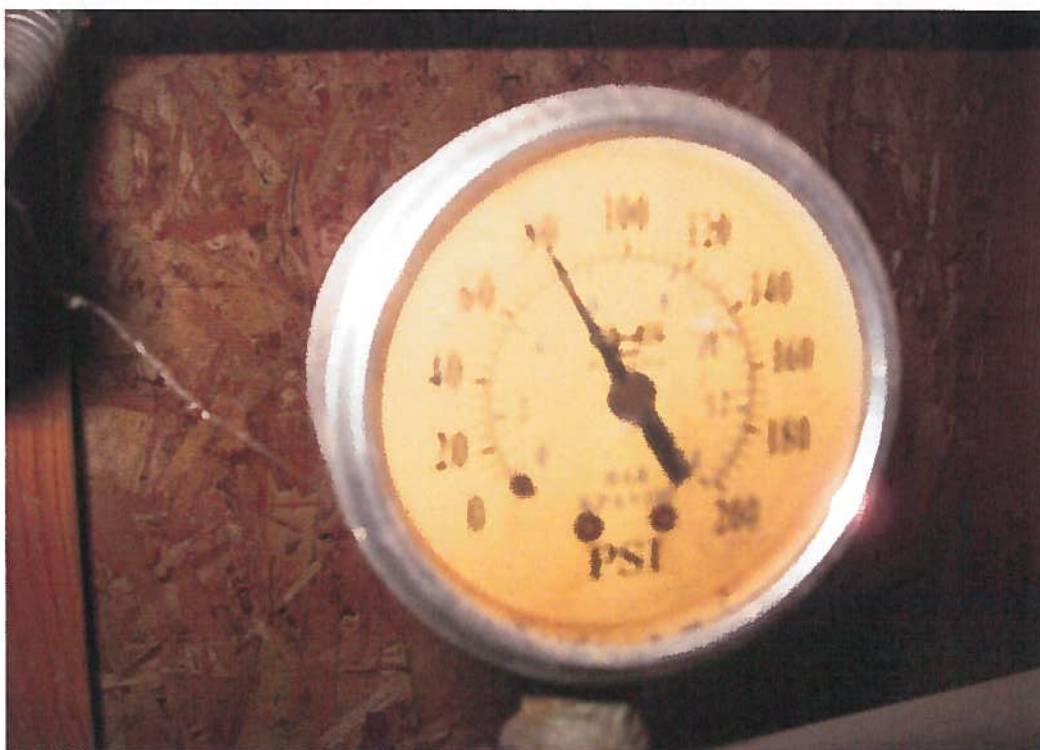


An inside view of the irrigation pump house.

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



Inside of the
irrigation
pump house



Water
pressure in
the
irrigation
system at
the time of
the visit
was 80 psi.

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



The flow meter on the irrigation system



The flow meter on the irrigation system was reading 400 gpm at the time of our visit.

250 S.V.

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



Three pump control boxes in the irrigation pump house.

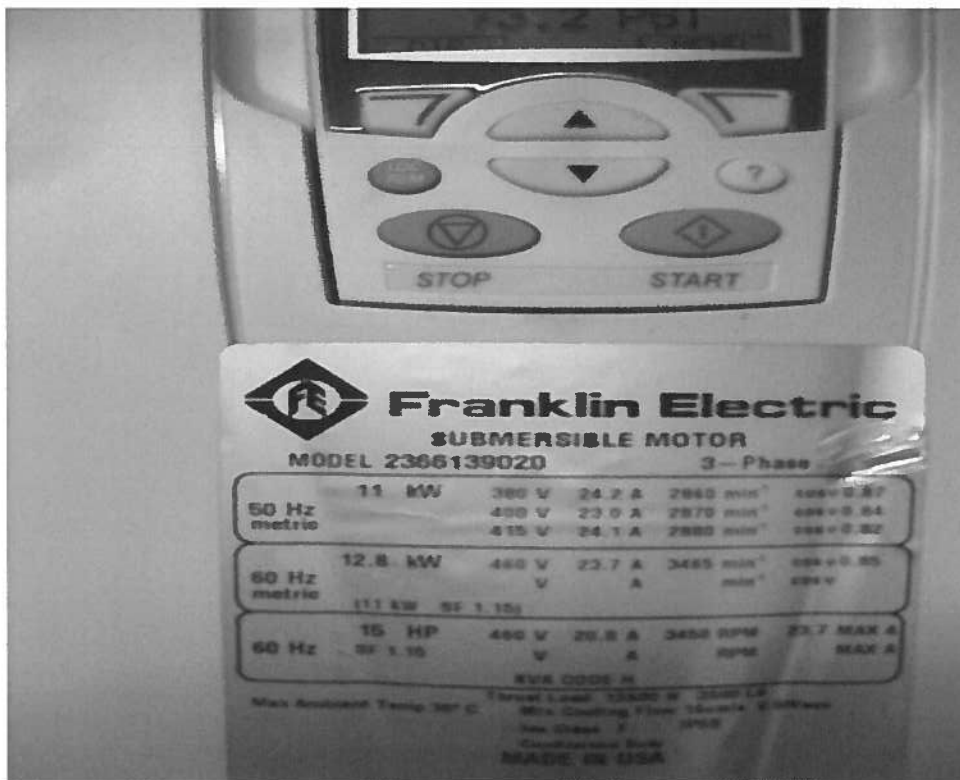


Control panel of the 3 HP pump

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
 FILE NUMBER 63-32229



Control panel of 3 phase submersible pump for the irrigation system



Panel of third pump with 3 phase submersible pump for the irrigation system.

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



A view looking down into the amount of water leaving Laguna Pont going down the "Graham / Gilbert" ditch before it crosses under Eagle Road on it's way to Streamside.



A view one area holding water in the general area that the third pond listed on the permit may have been located. After confirming with GIS imagery, this was not one of the ponds on the permit as the two ponds appear to have been covered up during construction.

PHOTOGRAPHER AND DATE OF PHOTOS – Steven Visosky 7/8/15
FILE NUMBER 63-32229



An estimate of where the fourth pond on the permit should have been. No water was found.



A general look from the shoreline of the large pond looking west.