

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

RECEIVED

APR 29 2016

DEPARTMENT OF
WATER RESOURCES

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 63-329961. Owner Spurwing Greens Master Association, IncorporatedPhone No. (208) 378-4000Current address 12601 W. Explorer Dr., Suite 200, Boise, ID 837132. Examiner's name Marci Pape, P.E.EXAM DATE April 25, 20163. Accompanied by Ann Marie BairdEmail abaird@brightoncorp.comAddress 12601 W. Explorer Dr., Suite 200, Boise, ID 83713Relationship to permit holder Property Management, Brighton Corporation Phone No. (208) 287-05144. Source groundwater tributary to _____**B. OVERLAP REVIEW**1. Other water rights with the same place of use See attached remarks2. Other water rights with the same source and point of diversion 63-32977,63-32978,63-32979,63-32980,63-33485**C. DIVERSION AND DELIVERY SYSTEM**

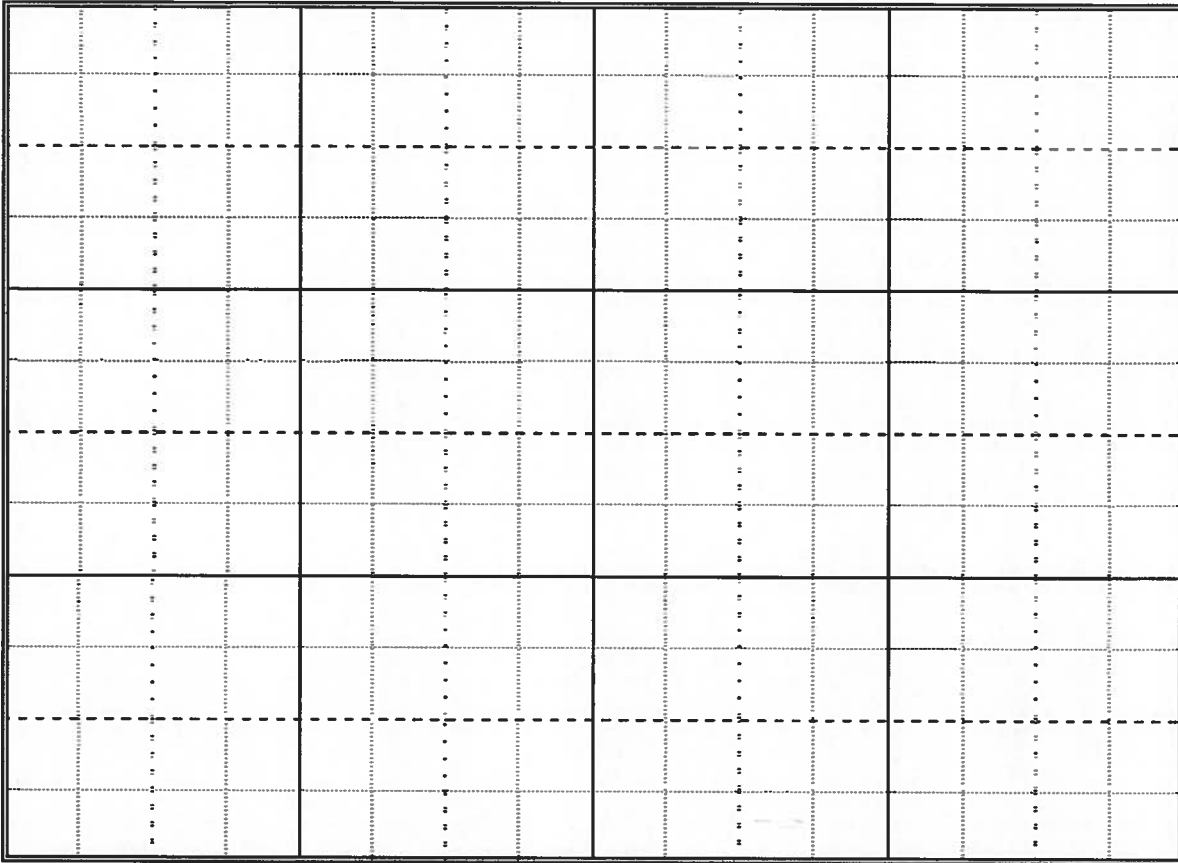
1. Point(s) of Diversion:

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			SW	SE	22	4N	1W	Ada	Field Exam, 2015 GIS Photo, GPS
									N 43 39' 54.5", W 116 26' 30.3"

2. Place(s) of Use: Method of determination review of 2015 NAIP photography

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
4N	1W	22												X	X	X	X		

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" = _____

- ☒ 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

4.

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

*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
Portable Flowmeter	Ultrasonic	GE	PT878	7140	various	3/28/2016

2. **Measurements:** _____

Examiner measured 3.21 cfs.

E. NARRATIVE/REMARKS/COMMENTS

B.1. Other water rights with same POU: The ponds are located within United Water and City of Meridian municipal service areas and within Settlers Irrigation District service area; not applicable.

E. The entity that filed the original permit application, Spurwing Greens, LLC, was dissolved in December, 2015. The land to which the permit is appurtenant is now owned by the homeowners' association, Spurwing Greens Master Association, Inc.

The supply well provides supplemental irrigation to the subdivision, as well as maintaining water levels in Ponds 1, 2, and 3. The pressurized irrigation system for the subdivision is supplied through Pond 1, and utilizes Settlers Irrigation District water, private surface water delivered by Settlers Irrigation District, and supplemental groundwater provided by this well. Water can be diverted directly from the well to Pond 2 through underground piping, and then overflow into Pond 1 when needed. The only source of supply to Pond 3 is through underground piping from this well, and there are no diversions from Pond 3.

The storage volume of the ponds, 9.4 ac-ft, was determined using information provided by the permittee. The supplied dimensions are those used for chemical treatment of the ponds. Total pond surface area was determined through GIS to be 1.83 acres, but is being recommended at the permitted 1.9 acres due to possible digitizing error. There is no seepage loss, as the ponds are membrane lined. The evaporative loss from the ponds was based on ET Idaho data from the Caldwell NWS station available at www.kimberly.uidaho.edu/ETIdaho/. The consumptive volume associated with shallow open water systems is 2.62 ac-ft per acre. With a surface area of 1.9 acres, the total evaporative loss is 5.0 ac-ft annually.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

ATTACHMENT A
PERMIT RECORD AND PROOF OF BENEFICIAL USE

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 63-32996

Priority: March 07, 2008

Maximum Diversion Rate: 3.35 CFS
Maximum Diversion Volume: 16.7 AF

This is to certify, that SPURWING GREENS LLC
3405 E OVERLAND RD, STE 150
MERIDIAN ID 83642

has applied for a permit to appropriate water from:

Source: GROUND WATER

and a permit is APPROVED for development of water as follows:

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>RATE OF DIVERSION</u>	<u>ANNUAL VOLUME</u>
DIVERSION TO STORAGE	01/01 to 12/31	3.35 CFS	
AESTHETIC STORAGE	01/01 to 12/31		16.7 AF

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW1/4SE1/4 Sec. 22, Twp 04N, Rge 01W, B.M., ADA County

PLACE OF USE: AESTHETIC STORAGE

Twp Rge Sec	NE				NW				SW				SE				
	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
04N 01W 22												X		X	X		

CONDITIONS OF APPROVAL

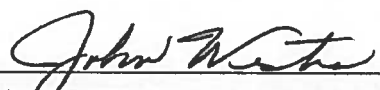
1. Proof of application of water to beneficial use shall be submitted on or before **May 01, 2016**.
2. Subject to all prior water rights.
3. This right does not grant any right-of-way or easement across the land of another.
4. The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.
5. After specific notification by the Department, the right holder shall install a suitable measuring device or shall enter into an agreement with the Department to use power records to determine the amount of water diverted and shall annually report the information to the Department.

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 63-32996

6. Project construction shall commence within one year from the date of permit issuance and shall proceed diligently to completion unless it can be shown to the satisfaction of the Director of the Department of Water Resources that delays were due to circumstances over which the permit holder had no control.
7. Water bearing zone to be appropriated is from 196 to 287 feet.
8. The three (3) ponds established for storage of water under this right shall not exceed a capacity of 12 acre feet or surface area of 1.9 acres.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code. Witness the signature of the Director, affixed at Boise, this 5th day of May, 20 11.


JOHN WESTRA, Western Regional Manager



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
STATEMENT OF COMPLETION
FOR SUBMITTING PROOF OF BENEFICIAL USE

FOR OFFICE USE ONLY	
Amt. of Fee \$	_____
Receipt No.	_____
Received By	_____
Date Received	_____

The Idaho Department of Water Resources considers this form a statement by the permit holder(s) that development of a water right has been completed and that water has been applied to beneficial use to the extent described below. This form must be accompanied by an examination fee, when necessary, or by a completed Beneficial Use Field Report prepared by a certified water right examiner. Please refer to the instructions and fee schedule for this form. If ownership of the permit has changed, contact any Department office or visit the Department's website at idwr.idaho.gov for an Assignment of Permit form. If you wish to relinquish your permit because you have not established the authorized use of the water and are not applying for an extension, please notify the Department in writing.

1. Permit No. 63-32996 Telephone No. (208) 378-4000
2. Name of Permit Holder(s) Spurwing Greens Master Association, Incorporated
3. Mailing Address 12601 W. Explorer Dr., Suite 200 City Boise
State ID Zip 83713 Email _____
4. Source of Water groundwater If **GROUND WATER** (well), Date Drilled mo. 9 / yr. 2007
Well Driller Riverside Drilling Permit Number D0052054
5. Extent of use(s) completed as authorized by the water right permit:
Domestic (No. of households) _____ Stockwater (No. and type of stock) _____
Irrigation (No. of acres) _____ Other 1.9 acre ponds (3)
6. Total rate of diversion or storage volume for which proof is submitted 3.21 cfs OR 14.4 acre-feet.
7. Compliance with a measuring device requirement, lockable controlling device requirement, and/or other conditions of permit:
Refer to the approval conditions on your permit and respond accordingly.
The Department will not issue a license if permit conditions are not met.

Measuring Device	Is a measuring device required?	Yes ☐	No ☒
	If yes, has the measuring device been installed?	Yes ☐	No ☐
Lockable Controlling Device	Is a lockable device required to control the diversion?	Yes ☐	No ☒
	If yes, has the lockable device been installed?	Yes ☐	No ☐
Fish Screen	Is a fish screen required?	Yes ☐	No ☒
	If yes, has the fish screen been installed?	Yes ☐	No ☐

Other Conditions of Permit
Do the approval conditions on your permit require you to submit additional information in connection with your proof of beneficial use? If yes, list the conditions below and attach documents with the required information.
No additional information required Completed? Yes ☐ No ☐
8. Fee Enclosed \$ _____ or not applicable ☒. See fee schedule on page 2 of the instructions.
Proof statements filed without an appropriate fee, will be considered incomplete.
9. Person to contact to accompany the Department representative during field examination of the water system.
Name _____ Telephone Number _____
Mailing Address _____ City _____
State _____ Zip _____ Email _____

The information given on this form is my true statement of the extent to which the above numbered permit has been developed and water has been diverted and applied to a beneficial use. I understand that any undeveloped portion of the permit is relinquished to the State of Idaho.

Signature of Permit Holder Ann Marie Brind, Property Manager Date 4/28/16
(Include your title, if on behalf of company or organization)

ATTACHMENT B
WELL DRILLERS' REPORT

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

848248
Office Use Only
Well ID No. 418193
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ Long: _____

1. WELL TAG NO. D 0052054
DRILLING PERMIT NO. 90/237-848248
Water Right or Injection Well No. 63-3399A

2. OWNER:
Name MAC, LLC (DOUGLAS CARNHAN-MANAGER)
Address 4042 W. CHINDEN BL
City MERIDIAN State ID Zip 83646

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 4 North ☒ or South ☐
Rge. 1 East ☐ or West ☒
Sec. 22 1/4 SW 1/4 SE 1/4
Gov't Lot _____ County ADA

Lat: _____ Long: _____
Address of Well Site N. BASCOLN, 0.2 MILES N OF
CHINDEN City MERIDIAN

Lt. _____ Blk. _____ Sub. Name _____

4. USE:

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

5. TYPE OF WORK check all that apply

☐ New Well ☐ Modify ☐ Abandonment ☒ Other REPLACE (Replacement etc.)

6. DRILL METHOD:

☐ Air Rotary ☐ Cable ☐ Mud Rotary ☒ Other REVERSE

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>BENTONITE</u>	<u>0</u>	<u>190</u>	<u>27,500</u>	<u>DRY POUR</u>

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) _____

Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>16</u>	<u>+2</u>	<u>196</u>	<u>315</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>16</u>	<u>236</u>	<u>247</u>	<u>315</u>	<u>STEEL</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe 10'

Packer ☐ Y ☒ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation JOHNSON WIRE WRAP

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>196</u>	<u>236</u>	<u>.030</u>		<u>16</u>	<u>S.S.</u>	☒	☐
<u>247</u>	<u>287</u>	<u>.030</u>		<u>16</u>	<u>S.S.</u>	☒	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>#6-9 CSSI SAND</u>	<u>190</u>	<u>302</u>	<u>21,000</u>	<u>DRY POUR</u>

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

237' ft. below ground Artesian pressure _____ lb.

Depth flow encountered _____ ft. Describe access port or control devices: _____

2" PIPE ON SIDE

12. WELL TESTS:

☒ Pump ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>2000</u>	<u>36</u>	<u>60</u>	<u>4 hrs</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>24</u>	<u>0</u>	<u>7</u>	<u>TO D SOIL</u>		☒
<u>1</u>	<u>7</u>	<u>13</u>	<u>CLEAR, BURNT CLAY</u>		☒
	<u>13</u>	<u>31</u>	<u>SAND, RIVER BOULDERS</u>	☒	
	<u>31</u>	<u>44</u>	<u>BRN CLAY w/SM SAND LAYER</u>	☒	
	<u>44</u>	<u>57</u>	<u>BRN CLAY</u>	☒	
	<u>57</u>	<u>68</u>	<u>MED-COARSE SAND</u>	☒	
	<u>68</u>	<u>73</u>	<u>BRN CLAY</u>	☒	
	<u>73</u>	<u>77</u>	<u>FINE BRN SAND</u>	☒	
	<u>77</u>	<u>87</u>	<u>BRN CLAY</u>	☒	
	<u>87</u>	<u>90</u>	<u>BRN SAND</u>	☒	
	<u>90</u>	<u>116</u>	<u>BRN CLAY w/SM SAND LAYER</u>	☒	
	<u>116</u>	<u>138</u>	<u>FINE-MED SAND w/SM CLAY LAYER</u>	☒	
	<u>138</u>	<u>149</u>	<u>BRN CLAY</u>	☒	
	<u>149</u>	<u>178</u>	<u>FINE-COARSE SAND</u>	☒	
	<u>178</u>	<u>196</u>	<u>BRN CLAY w/SM SAND LAYER</u>	☒	
	<u>196</u>	<u>232</u>	<u>MED-COARSE SAND w/STREAKS REA GRAVEL</u>	☒	
	<u>232</u>	<u>253</u>	<u>BRN CLAY w/SM COARSE SAND LAYER</u>	☒	
	<u>253</u>	<u>302</u>	<u>MED-COARSE SAND w/PEA GRAVEL</u>	☒	

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SEP 12 2007

WATER RESOURCES
WESTERN REGION

Completed Depth 297 (Measurable)

Date Started 8-10-07 Completed 9-1-07

14. DRILLER'S CERTIFICATION

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

Company Name RIVERSIDE INC Firm No. 333

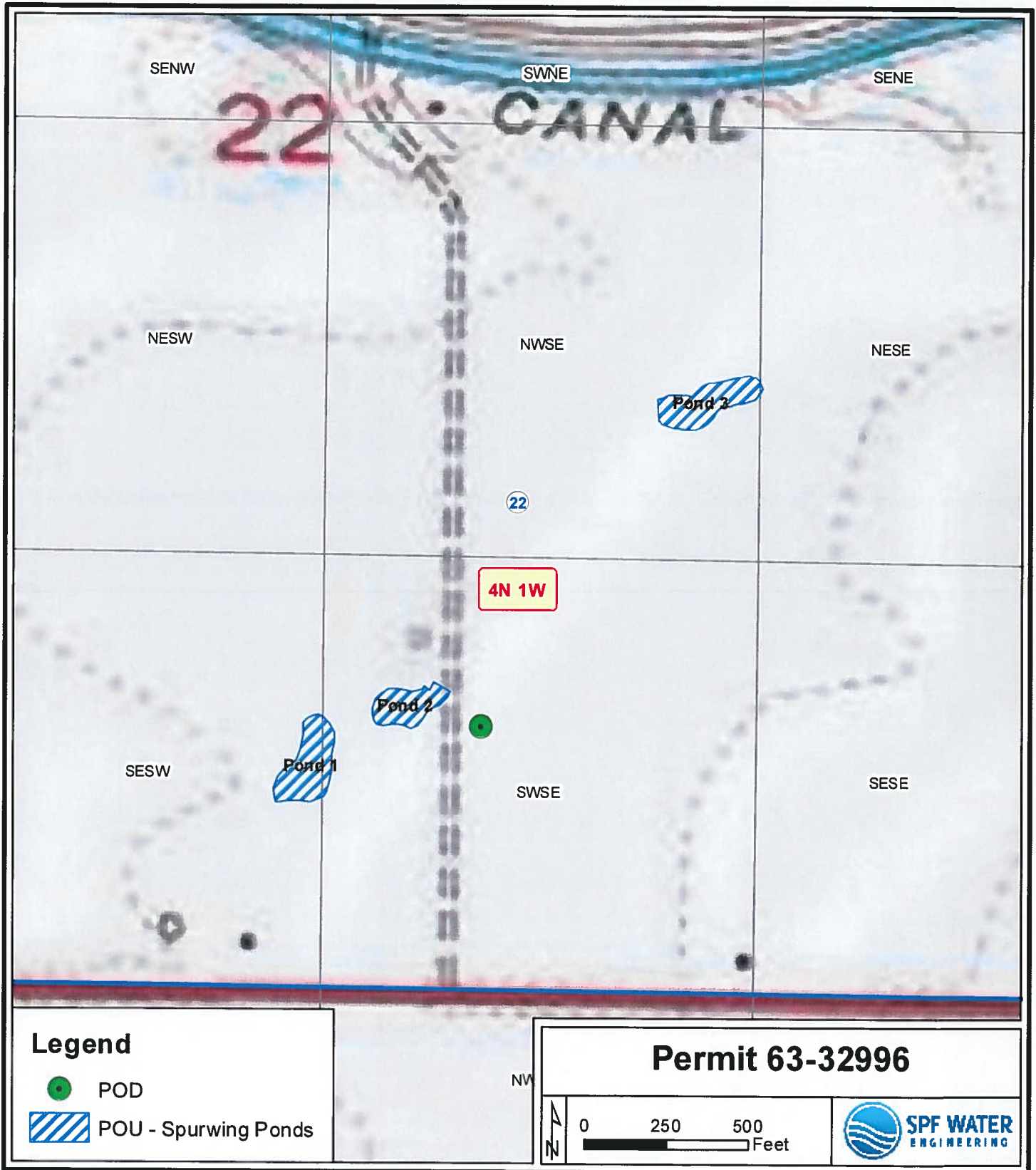
Principal Driller [Signature] Date 9-10-07

and Driller or Operator II [Signature] Date 9-10-07

Operator I _____ Date _____

Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

ATTACHMENT C
TOPO MAP AND 2015 AERIAL PHOTO





Legend

-  POD
-  POU - Spurring Ponds

Permit 63-32996



0 250 500 Feet



ATTACHMENT D
PHOTOS



Figure 1. Supply well and submersible pump, looking approx. south

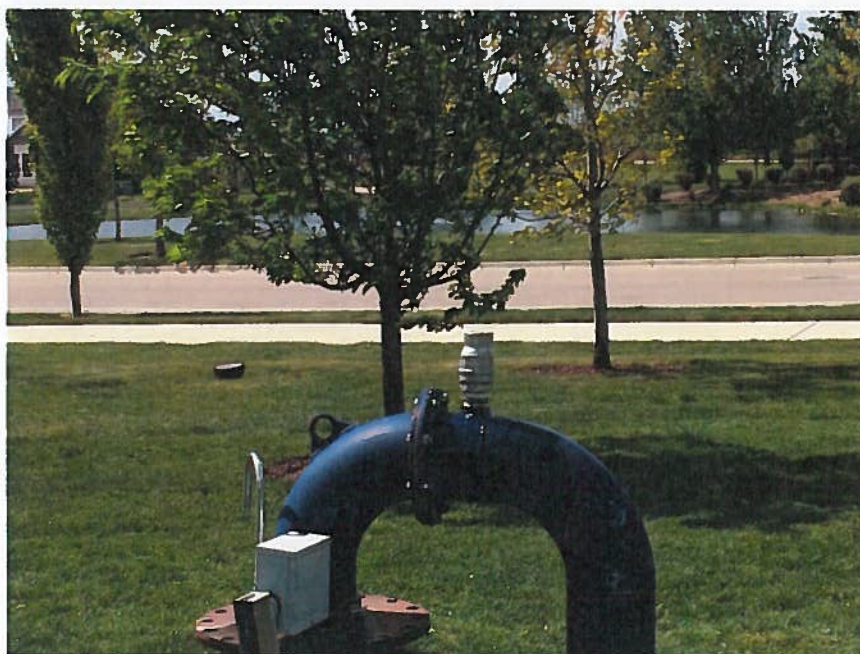


Figure 2. Supply well and Pond 2, looking northwest

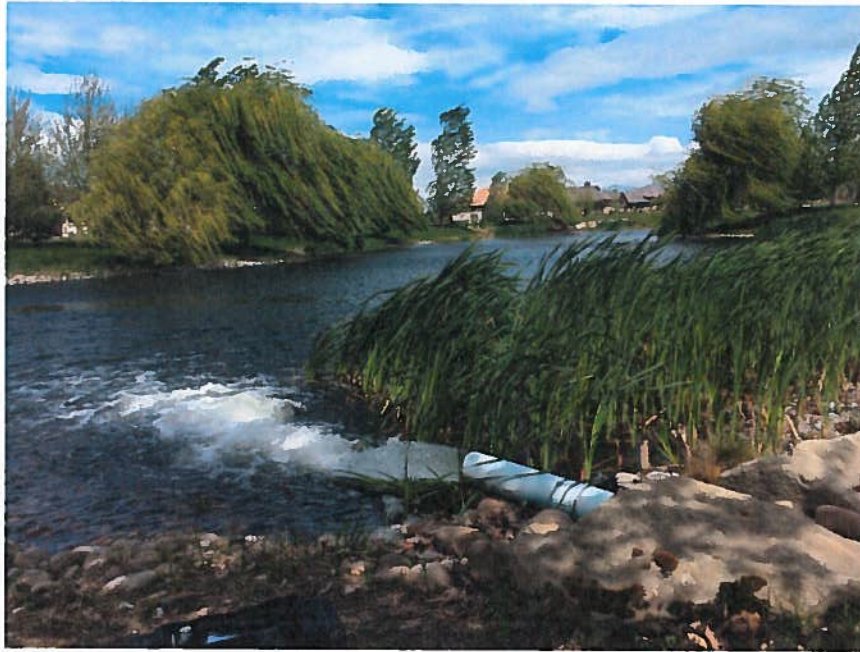


Figure 3. Discharge measurement location at Pond 3, looking northeast



Figure 4. Discharge measurement with Panametrics meter on supply pipe at Pond 3



Figure 5. Supply pipe into Pond 2, looking approx. south



Figure 6. Pond 2, looking west



Figure 7. Pond 1, looking southeast

ATTACHMENT E

FLOW MEASUREMENT RECORDS & POND VOLUME DATA

Permit: 63-32996
 Owner: Spurwing Greens Master Association, Incorporated
 Site Name: Production Well
 POD Location: 4N 1W 22 SWSE
 Tag No: D0052054
 Meter: GE TransPort PT878
 Type: Portable Ultrasonic Time Flight Liquid Flow Meter
 Serial Number: 7140
 Calibration Date: March 28, 2016
 Operator: Marci Pape

Date/Time	Volume (gal/m)	(+)Total (gal)	(-)Total (gal)	Error #
4/25/2016 14:36:04	1481.700611	33374.68585	4.306547392	0
4/25/2016 14:37:03	1473.605406	34849.74593	4.306547392	0
4/25/2016 14:38:03	1455.309771	36289.4412	4.306547392	0
4/25/2016 14:39:04	1441.157052	37759.14059	4.306547392	0
4/25/2016 14:40:03	1418.650924	39214.41995	4.306547392	0
4/25/2016 14:41:04	1432.274973	40672.45939	4.306547392	0
4/25/2016 14:42:04	1416.833459	42046.60794	4.306547392	0
4/25/2016 14:43:03	1419.646308	43498.98549	4.306547392	0
4/25/2016 14:44:03	1441.310531	44885.17955	4.306547392	0
4/25/2016 14:45:04	1434.154889	46359.27302	4.306547392	0
4/25/2016 14:46:03	1441.566206	47767.06498	4.306547392	0

Time	10 minutes
Volume	14392 gallons
Rate	1442 gpm
Rate	3.21 cfs

Total Storage Calculations

FILE NUMBER	63-32996
REVIEWER	M. Pape
DATE	4/27/2016

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.)	1.9	"Surface Area" is automatically carried over from the "Seepage Loss" sheet.
Average Pond Depth (FT.)	6	"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)	9.4	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)	5.0	The "Estimated Evaporation Loss" is automatically carried over from the "Evaporation Loss" sheet.
Total Volume Required (AF)	14.4	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)	3.21	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)	5.01	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)	0.03	"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)	0.02	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	1	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	1085	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.

Roxanne Brown

From: Ann Marie Baird <abaird@brightoncorp.com>
Sent: Friday, April 22, 2016 9:41 AM
To: Roxanne Brown
Subject: SpurWing

More information from my guys that treat the ponds in SpurWing.

Pond 1 is 0.8 SA, 4.2 VA and AVG depth of 6.1'.

Pond 2 is 0.5 SA, 2.6 VA and AVG depth of 6.6'

Pond 3 is 0.65 SA, 2.6 VA and AVG depth of 5.2'.

Thanks,

Ann Marie Baird Property Management
Brighton Corporation | www.BrightonCorp.com
12601 W. Explorer Dr., Suite 200 | Boise, ID 83713
Hours: Mon-Thurs 8am-4:30pm, Fri 8am-noon
Office 208.378.4000 | Direct 208.287.0514

