

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

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. 43-31734

1. Owner Lakeland Village Homeowners Assn Phone No. (208) 323-1080
 Current address 6149 N Meeker PL STE 150 Boise ID 83713
2. Examiner's name Nicholas Van Dyke EXAM DATE 5/1/14
3. Accompanied by Dave O'Day Email DaveO'Day@gmail.com
 Address 1150 W. Alturas Street Boise ID 83702
 Relationship to permit holder consultant Phone No. (208) 331-3512
4. Source Ground water tributary to Boise River

B. OVERLAP REVIEW

1. Other water rights with the same place of use w/in several ditch co's service area
2. Other water rights with the same source and point of diversion none

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion: see page 5 of field report

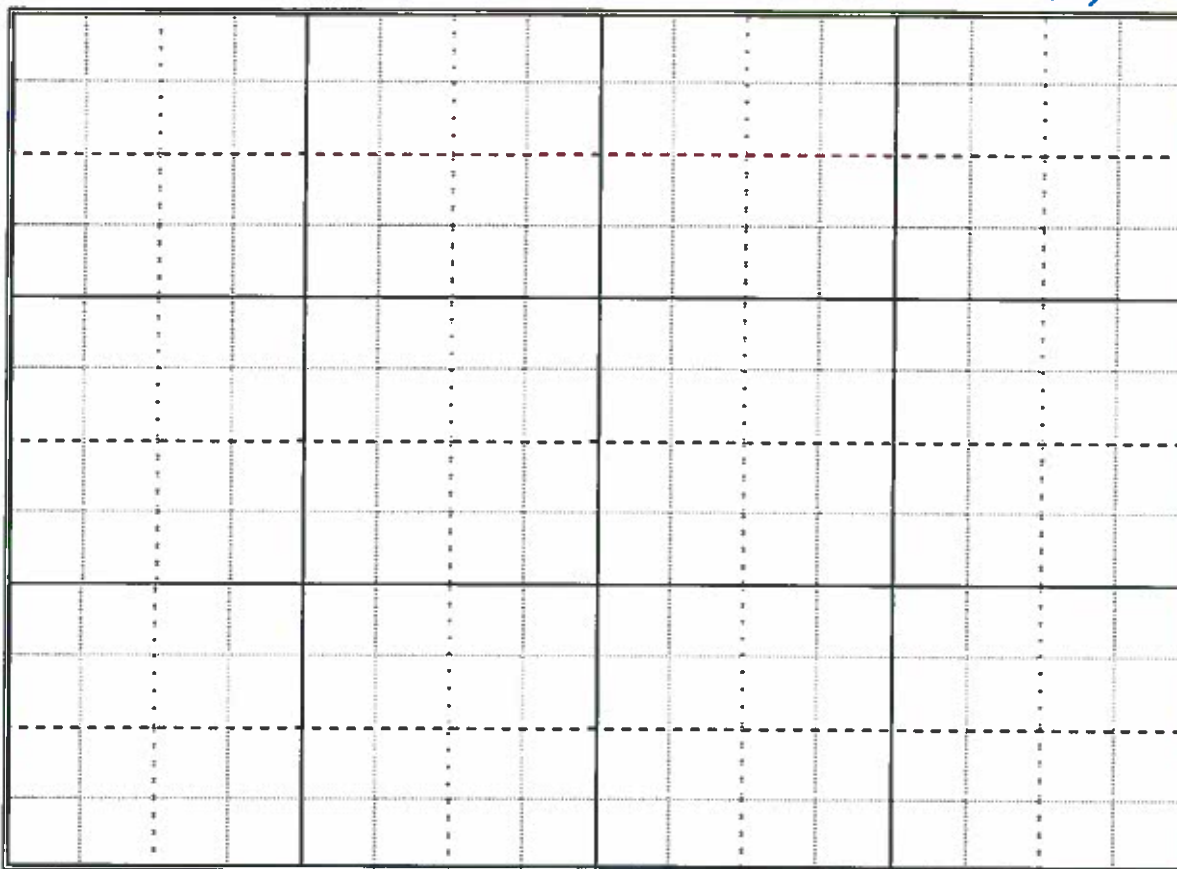
see narrative
↓

Ident. No.	Gov't Lot	1/4	1/4	1/4	Sec	Twp	Rge	County	Method of Determination/Remarks

2. Place(s) of Use: Method of determination site visit

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	1E	14											X						
4N	1E	15																X	
																		L1	
4N	1E	23					X	X											
							L3	L4											

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. *page 6 of field report*



Scale: 1" = _____

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required) *page 8*
☒ Aerial photo attached (required for irrigation of 10+ acres) *page 9*
☒ Photo of diversion and system attached *pages 10-15*

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
<i>N/A</i>					

*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
<i>N/A</i>						

2. Measurements: *Surface area average estimate done via G.S. Pond Type estimate thru site visit. Depth measurements made on 8 of the 10 ponds. Reasonable averages provided. See page 7 of field report.*

E. NARRATIVE/REMARKS/COMMENTS

Permit approved in December 2008 to cover 10 shallow ground water (tied to Boise R.) ponds intended for seepage storage purposes in the Lakeland Village subdivision in Eagle ID. General location is between the Boise R. & State St, about $\frac{1}{2}$ mile from intersection of Hwy 55 & State St. Ponds vary in surface area size from 0.2 acres to over 5 acres. Ponds are mitigated by right 63-146 as authorized thru Transfer No. 73632. Boise R. runs thru the property on the southeastern edge & runs thru the ponds via underground interconnecting piping. A measuring device control box is in place where New Union Ditch Co. water enters the property. See accompanying diagram, maps, & photos for further illustration.

Volume Determination: To the best I could tell, the ponds fall somewhere between V shaped & flat bottomed. On the low end, V shaped estimation yields 154.1 af in storage volume. On the high end, flat bottomed ponds Total 385.1 af in storage volume. I recommend licensing the permitted volume amount of 272 af as it falls between both estimated amounts. See page 7 of this field report for summary of numbers.

Overlap: Falls w/in New Union Ditch Co. Boise Valley Irr Water, Dry Creek Ditch Co. service areas New Union provides mitigation water.

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?

F. FLOW CALCULATIONS☐ Additional computation sheets attached

Measured Method:

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

 $V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$ _____ $V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 =$ _____ $V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

As noted in narrative, recommend permitted volume amount of 272 af. See page 7 of field report for calculations.

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion	Annual Volume
	From	To	Q (cfs)	V (afa)
<i>Aesthetic Storage</i>	<i>1/1</i>	<i>12/31</i>		<i>272.0 afa</i>
Totals:				<i>272.0 AF</i>

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature

Nicholas Van Dyke

Date

6/2/2014

Reviewer

Angela Quinn

Date

6/2/2017

SEAL

Points of Diversion. Method of Determination is Site Visit.

GROUND WATER	SWSW	Sec. 14, Twp 04N, Rge 01E, ADA County
GROUND WATER	L1(SESE)	Sec. 15, Twp 04N, Rge 01E, ADA County
GROUND WATER	L1(SESE)	Sec. 15, Twp 04N, Rge 01E, ADA County
GROUND WATER	L3(NENW)	Sec. 23, Twp 04N, Rge 01E, ADA County
GROUND WATER	L3(NENW)	Sec. 23, Twp 04N, Rge 01E, ADA County
GROUND WATER	L4(NWNW)	Sec. 23, Twp 04N, Rge 01E, ADA County
GROUND WATER	SWSW	Sec. 14, Twp 04N, Rge 01E, ADA County
GROUND WATER	SWSW	Sec. 14, Twp 04N, Rge 01E, ADA County
GROUND WATER	L4(NWNW)	Sec. 23, Twp 04N, Rge 01E, ADA County
GROUND WATER	L4(NWNW)	Sec. 23, Twp 04N, Rge 01E, ADA County

> * confirmed
thru keria
imagery

5

Legend



measuring box



piping



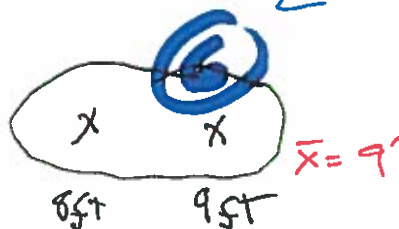
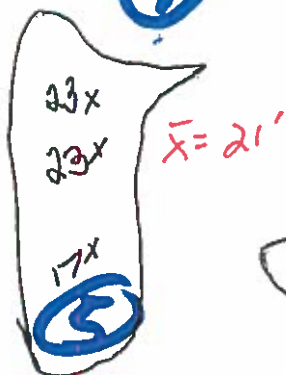
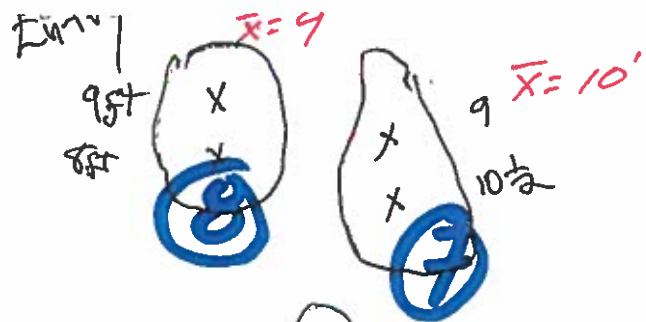
ponds



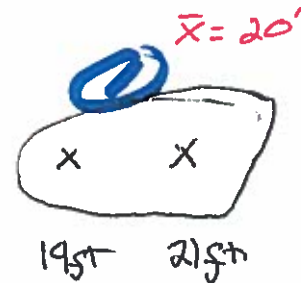
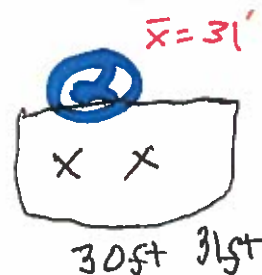
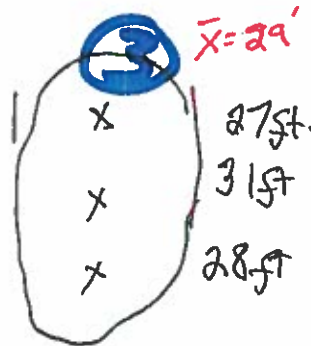
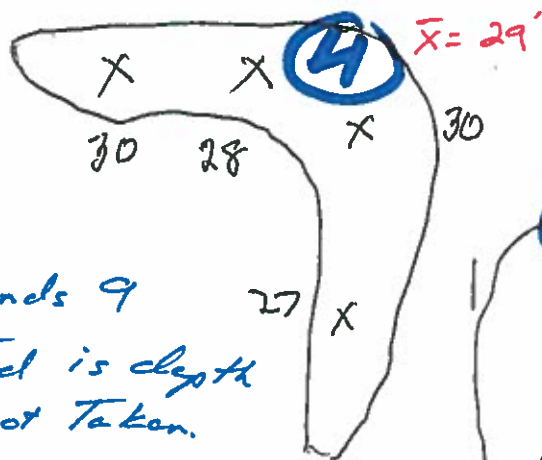
General Direction of Flow

- Ponds are numbered in order visited during field exam. Note (1) not numbered in same order as application places them and (2) ponds nine and ten not visited on foot during exam. Verified thru aerial imagery

0 500 1,000 2,000 Feet



Ponds numbered similar to diagram on page 6 of field report.



Number



Reason ponds 9

& 10 separated is depth measurements not taken.

See narrative 20' depth value used in calculations. Average of the other 8 ponds Also not shown on this map are ponds 9 & 10.

"SA" = pond surface area in acres

$\bar{x}$ = average depth of pond (rounded up)

Low Estimate
Depth x SA x 0.4

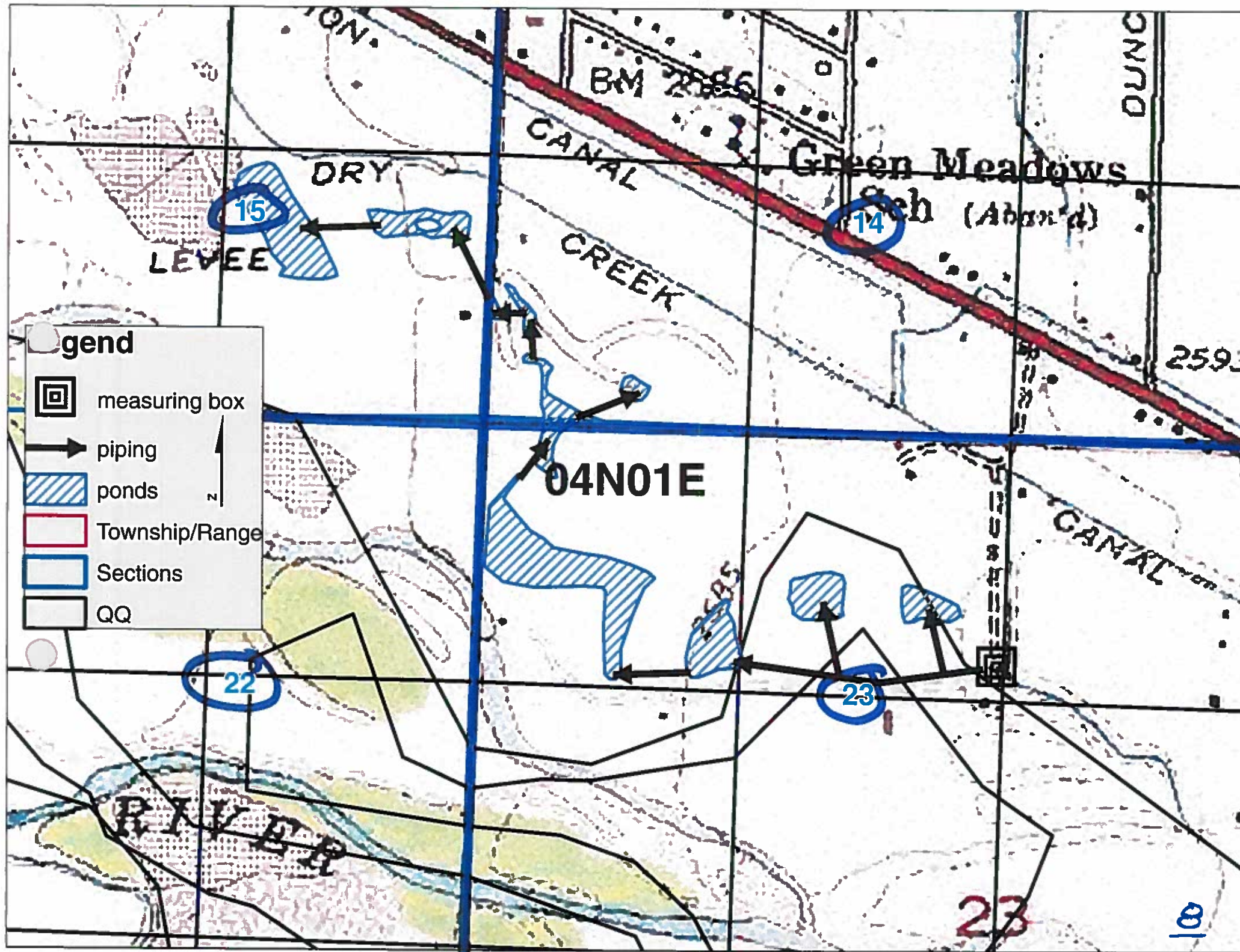
- ① $20' \times 0.9 \times 0.4 = 7.2$
- ② $31' \times 1.3 \times 0.4 = 16.1$
- ③ $29' \times 1.6 \times 0.4 = 18.6$
- ④ $29' \times 5.4 \times 0.4 = 62.6$
- ⑤ $21' \times 1.2 \times 0.4 = 10.1$
- ⑥ $9' \times 0.3 \times 0.4 = 1.1$
- ⑦ $10' \times 0.3 \times 0.4 = 1.2$
- ⑧ $9' \times 0.1 \times 0.4 = 0.4$
- ⑨ $20' \times 1.2 \times 0.4 = 9.6$

154.1
M

High Estimate
Depth x SA

- ① $20' \times 0.9 = 18$
- ② $31' \times 1.3 = 40.3$
- ③ $29' \times 1.6 = 46.4$
- ④ $29' \times 5.4 = 156.6$
- ⑤ $21' \times 1.2 = 25.2$
- ⑥ $9' \times 0.3 = 2.7$
- ⑦ $10' \times 0.3 = 3$
- ⑧ $9' \times 0.1 = 0.9$
- ⑨ $20' \times 1.2 = 24$

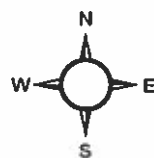
385.1
M





Legend

- | | | |
|--|--|--|
|  ponds |  piping |  QQ |
|  measuring box |  Township/Range |  Sections |



0 0.05 0.1 0.2 Miles

2015 aerial imagery



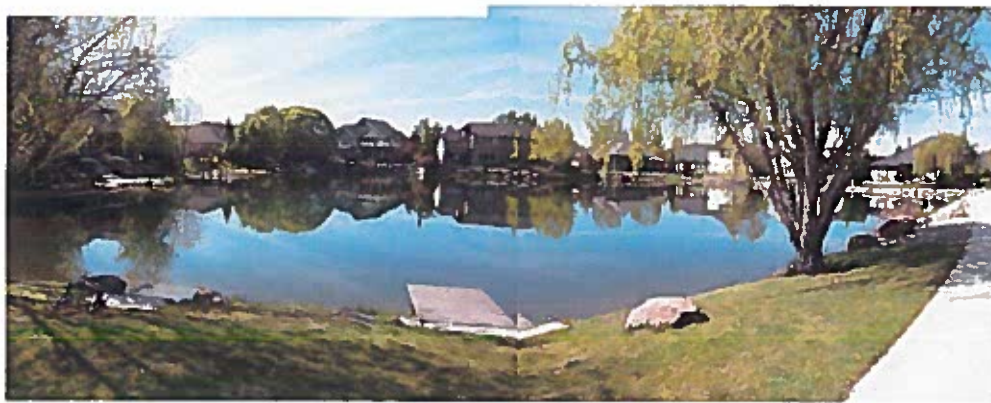
Measuring device control box



Another shot of the measuring device control box. Note the staff gauge setup allowing quick visual estimation of in-flow from the New Union Canal Company to ensure proper mitigation is being delivered to the ponds.



Pond #1



Pond #2



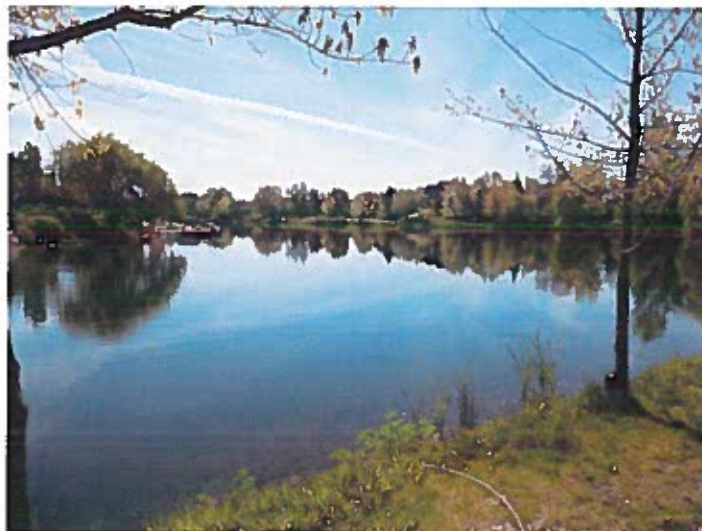
Pond #3



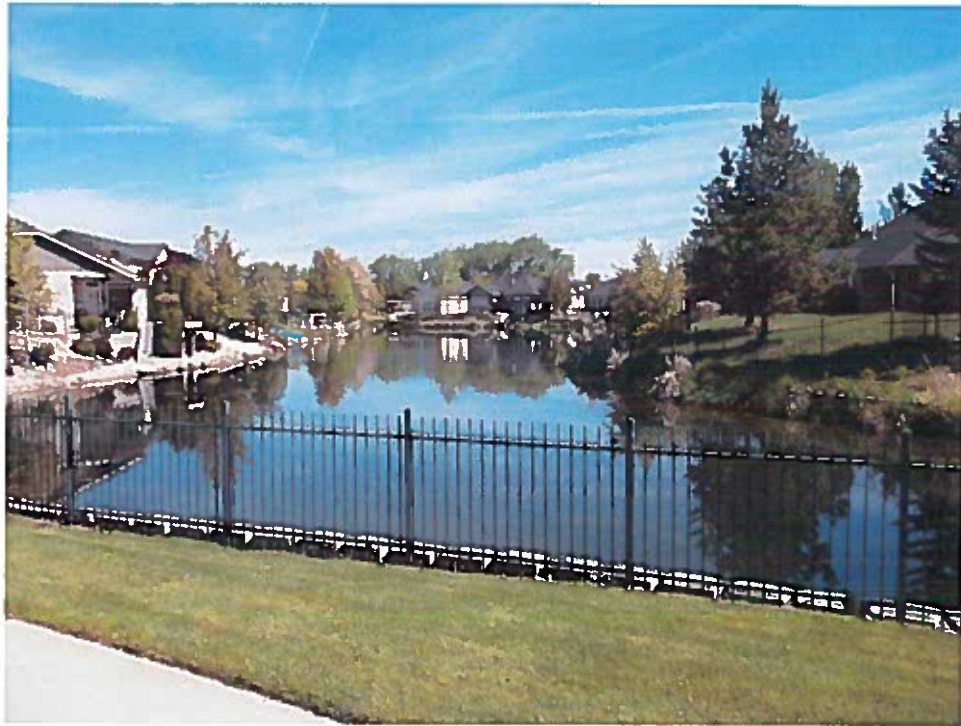
Pond #4. At south end of pond looking N



Pond #4. At elbow point looking NW



Pond #4. At NW end of pond looking SE.



Pond #5. At southern end of pond looking NNW.



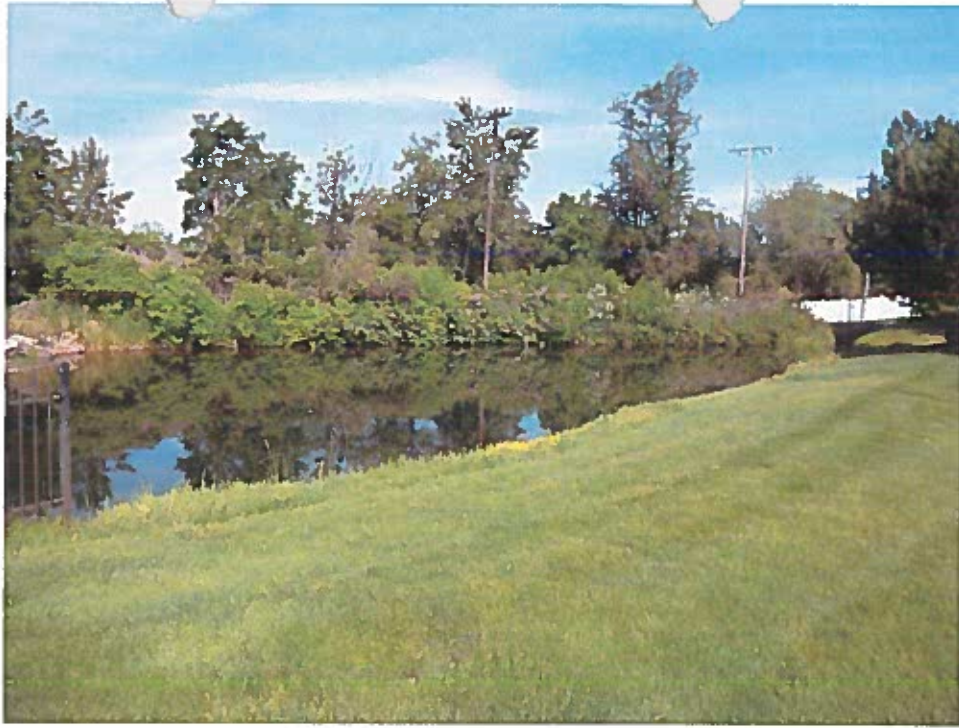
Pond #5. At northern end of pond looking SE.



Pond #6. At SE end of pond looking NW.



Pond #7. At south end of pond looking NW.



Pond #8. At south end of pond looking NW.



Pond #8. Outflow from pond #8 going to pond #9.

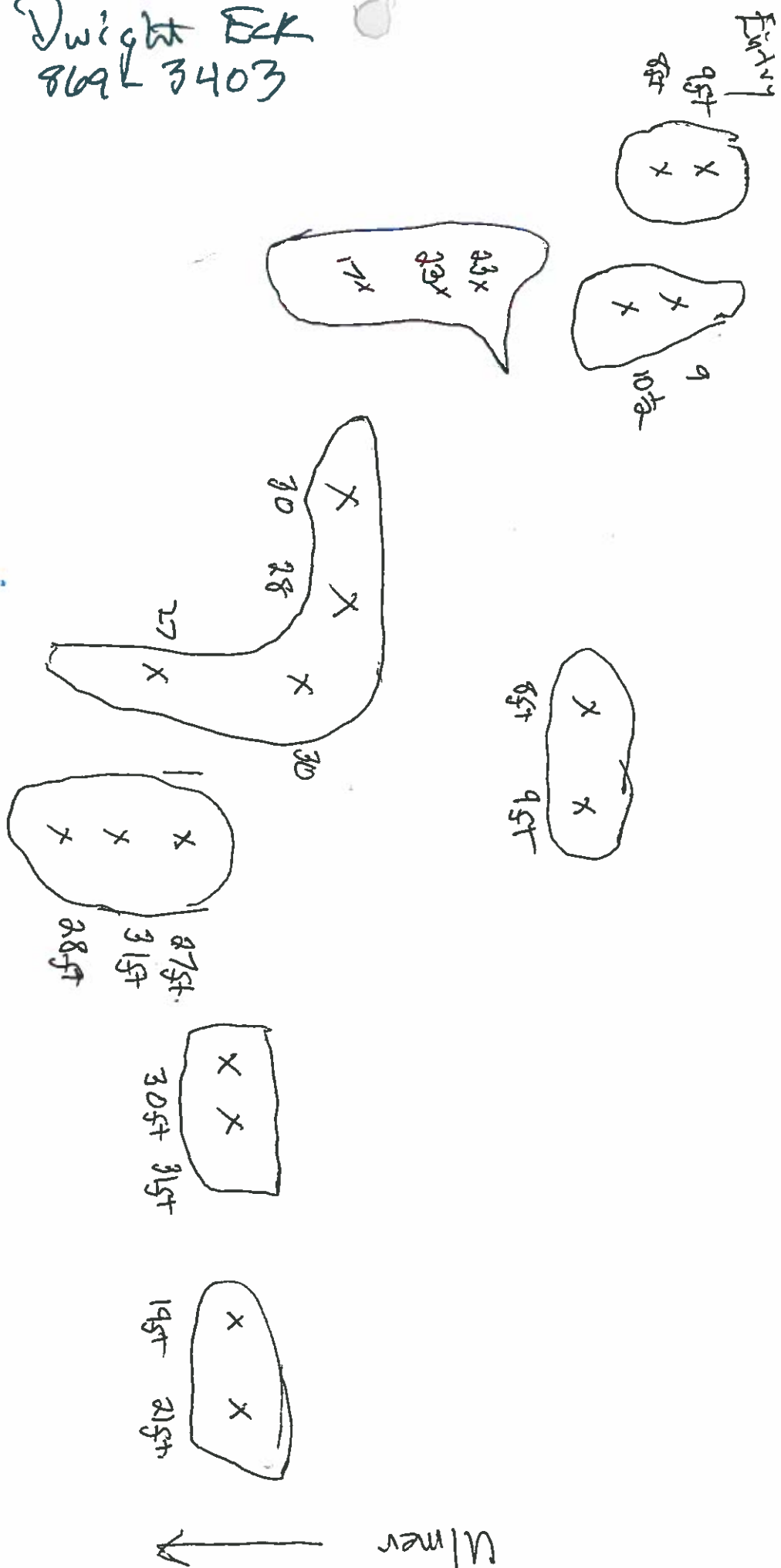
Lakeland Village Water Depths

Dwight Eck
869 3403

RECEIVED

MAY 23 2016

WATER RESOURCES
WESTERN REGION



Van Dyke, Nick

From: Van Dyke, Nick
Sent: Wednesday, April 06, 2016 9:52 AM
To: 'dleck58@aol.com'
Cc: 'Dave O'Day'
Subject: Lakeland Village pond water right
Attachments: DOC009.pdf; DOC010.pdf

Hello Dwight,

My name is Nick Van Dyke. I work with the State's Water Resource Department. I am trying to wrap up some old field examinations for water rights I have that are pending resolution. The right for Lakeland's aesthetic ponds is next on my list. I've attached an email thread showing where the issuance of this right was left off in late 2014. What is needed are depth measurements of the ponds within Lakeland's boundary (map also attached). With that I can complete the volume calculations needed.

If you are no longer on the HOA's board of directors can you point in the right direction? Please let me know. Thank you.

Nicholas Van Dyke

*Sr. Water Resource Agent
Idaho Department of Water Resources
Phone: (208) 334-2190
Fax: (208) 334-2348
Email: nick.vandyke@idwr.idaho.gov*

Van Dyke, Nick

From: Dave O'Day [daveoday@gmail.com]
Sent: Monday, November 17, 2014 8:36 AM
To: Van Dyke, Nick
Cc: Dwight Eck; Mike Thomas; Patricia Liddell
Subject: Fwd: Idaho Department of Water Resources

Hi Nick,

Dwight Eck of the Lakeland Village HOA Board of Directors will undertake the water depth measurements you requested, but it will have to be after the irrigation season begins.

As I think I mentioned to you, I will be working overseas at that time, so the purpose of this email is to introduce you to each other.

I asked the Board to obtain 3 or 4 water depths in each pond for you. I believe LLV HOA has a drawing with all the ponds on it, so maybe Dwight can "eyeball" the location of each of the measurements.

Dwight: A fiberglass measuring tape with a weight on it should work well for the measurements. Just attach a weight to it and +/- 3 inches or so should be plenty accurate. And thank you for taking this on. If you need anything, like a map of all the ponds, please let me know and I will get one to you.

Nick: If you don't hear from Dwight by the end of April or so, his contact info is at the end of his email offering to take this on.

Thanks for all your help getting Lakeland Village's license approved. If you need anything else from me, please ask. I should be around until mid-February or so.

All the best,

Dave

----- Forwarded message -----

From: <dleck58@aol.com>
Date: Wed, Nov 12, 2014 at 4:23 PM
Subject: Re: Idaho Department of Water Resources
To: Dave O'Day <daveoday@gmail.com>
Cc: Mike Thomas <arago58@yahoo.com>, Patricia Liddell <pat@advantage-idaho.com>

Let's do after irrigation water is on next spring. I can use a float tube.

Dwight Eck

2038 S. Cole Rd.
Boise, ID. 83709
[208-869-3403](tel:208-869-3403)

> On Nov 12, 2014, at 3:25 PM, "Dave O'Day" <daveoday@gmail.com> wrote:

>

> I just had a conversation with Nick Van Dyke, the Water Resources water right examiner who came out and witnessed the second time we demonstrated your ability to divert and measure your and Lakeland Estate's water into your pond system.

>

> We talked about the derivation of the calculation of the flow that we demonstrated that day. He said the last piece of information he is lacking to finalize your water right license is an idea of the volume of water in the ponds. For that, he needs a rough estimate of the depth of the ponds.

>

> Not that I'm proposing doing it right now (in the winter) but does anyone in Lakeland Village have a small rubber raft or even a fishing float tube, who could go around your ponds and measure the depths in 3 or 4 places in each pond? Just hang a weight (a large piece of metal hanging off the end), just lower it on a fiberglass measuring tape until it touches bottom and report the water depth.

>

> Any chance something like that can be arranged, maybe in the spring?

>

> I will be returning to Guam mid-February for an 8-month assignment, but will still be reachable by email at this same email address.

>

> Thanks,

>

> Dave

David A. O'Day, P.E.

O'Day Consulting Engineering, PLLC

Phone: 208-331-3512 1150 W. Alturas Street, Boise, Idaho 83702 Mobile: 208-861-1788

e-mail: DaveODay@gmail.com

February 27, 2014

Idaho Department of Water Resources
Western Regional Office
2735 Airport Way
Boise, Idaho 83705

RECEIVED

MAR 03 2014

**WATER RESOURCES
WESTERN REGION**

Attention: Mr. Steve Lester

Subject: Field Examination
Water Right No. 63 – 31934
Lakeland Village HOA
Boise, Idaho

Dear Steve,

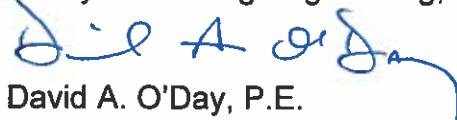
Yesterday I received a letter from Darla Block indicating that a field examination of the subject water right remains to be performed to confirm that use is being made of the water.

As you and I discussed this morning, we performed a flow test on July 10, 2013, witnessed by Rex Barrie, Boise River Watermaster, after fabricating and installing a measuring orifice, and obtaining Rex's approval of the orifice and its installation. At the time, we were not aware that Rex is not a certified field examiner and believed that we had completed the demonstration of use of the water associated with the subject water right.

Please schedule a field examination for this spring for a day and time convenient for you or your staff. I will contact the appropriate parties and coordinate the schedule with them.

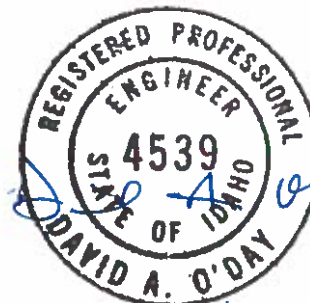
Thank you again for your assistance with the proof of beneficial use of this water right.

Sincerely,
O'Day Consulting Engineering, PLLC


David A. O'Day, P.E.

Cc: Lakeland Village HOA
Attention: Mike Thomas

Advantage Idaho, Inc.
Attention: Patricia Liddell, HOA Manager



2/27/14