

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. 63-338691. Owner Parkcrest HomesPhone No. 208-869-2973Current address 10090 W. Floating Feather Rd, Star, ID 836692. Examiner's name Cody ParkerEXAM DATE February 1, 20183. Accompanied by None, Correspondence with Mike Farlow

Email _____

Address PO Box 1090, Meridian, ID 83680Relationship to permit holder HOA affiliate

Phone No. _____

4. Source Groundwater

tributary to _____

B. OVERLAP REVIEW1. Other water rights with the same place of use Surface water irrigation2. Other water rights with the same source and point of diversion None**C. DIVERSION AND DELIVERY SYSTEM**

1. Point(s) of Diversion:

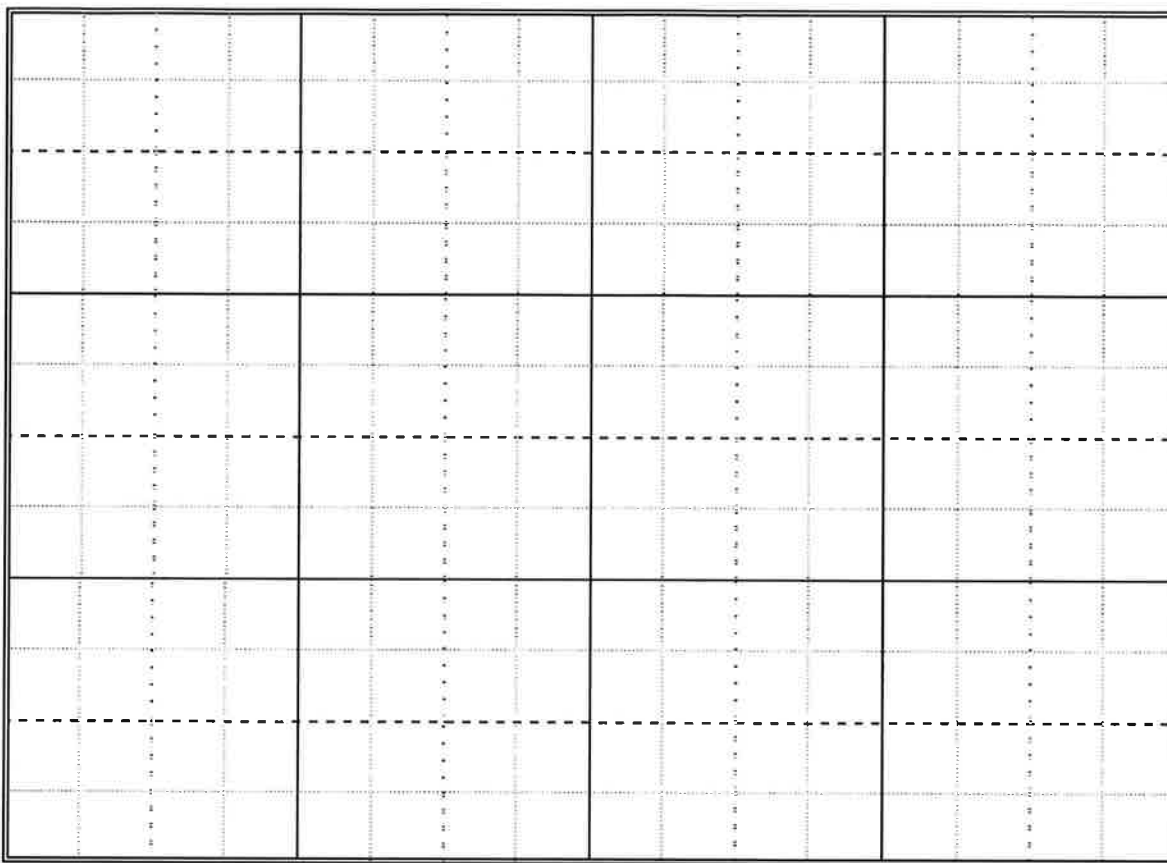
Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			NW	NE	7	04N	01W	Ada	Aerial imagery, digital PLS
									pond centroid

2. Place(s) of Use:

Method of determination Aerial imagery, digital PLS

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	01W	7		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
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						

2. **Measurements:** _____

Pond intercepts groundwater _____

E. NARRATIVE/REMARKS/COMMENTS

This permit authorizes the storage of 47.2 afa groundwater for aesthetic storage. The place of use is located outside of the Basin 63 Groundwater Restricted area so no mitigation plan is associated with the pond. The groundwater is not considered tributary to the Boise River for this area. The tributary information was updated on the license per current IDWR practice. Proof of beneficial use was submitted on July 14, 2014. I completed the field examination on February 1, 2018. I spoke with Mike Farlow of the HOA on the phone prior to the exam. He confirmed it was ok to complete the exam without having anyone from the HOA there. He says that the pond was developed as proposed.

The pond is located in the NWNE of Sec. 7, T04N, R01W, B.M. The pond fills by intercepting shallow groundwater and by capturing stormwater from the subdivision. The pond is approximately 4 acres in surface area. Engineering documents from the backfile suggest the average depth of the pond is 10.3 ft. The corresponding capacity of the pond is 41.2 ft. The pond loss spreadsheet predicts an evaporation volume of 10.5 afa using precipitation deficit data from the Caldwell (NWS -- 101380) station. The total volume required is 51.7 afa. The permit authorizes up to 47.2 afa. I have recommended the license for the permitted volume and I have written a letter advising the permit holder to apply for the additional water

There are no overlapping rights providing water for storage of the pond. Surface water appears to be passed through the pond for irrigation within the subdivision.

At the time of the exam, the permit is still in the name of the developer. Mr. Farlow had been advised to have the permit assigned to the HOA prior to final license approval. However, Mr. Farlow never got back to me so the license should be approved prior to assignment. The HOA has been added as an interested party

Condition R05 was included on the permit. The watermaster for WD 63 does not regulate groundwater so the condition will be dropped at licensing

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 attachedMeasured Method:
None**G. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

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

2. Volume Calculations for Other Uses:

Capacity: 4 acres x 10.3 average depth = 41.2 af

Evaporation: 10.5 af (per pond loss spreadsheet)

Total required: 51.7 afa

Permit: 47.2 afa (recommended)

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Aesthetic Storage	01/01	12/31		47.2 afa
Totals:				47.2 afa

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

Date

7-5-16

Reviewer

Date

7/5/18

SEAL

State of Idaho
Department of Water Resources
Beneficial Use Field Report
63-33869

AESTHETIC STORAGE

01W

04N



-  Point of Diversion
-  Place Of Use Boundary
-  Townships
-  PLS Sections

0 0.035 0.07 0.14 Miles



Right No. 63-33869

Beneficial Use Field Report System Diagram

WRA Cody Parker

USDA/FSA ISU GIS/REC



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	63-33869
REVIEWER	Cody Parker
DATE	5/23/2018

User Input
Calculated value
Formula Explanations

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

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

USING THIS SPREADSHEET

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

Instructions:

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

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

Precipitation Deficit

Station: Caldwell (NWS -- 101380)

Month	mm/day ¹	Days per month	mm/Month
Jan	-0.83	31	0.00
Feb	0.18	28	5.04
March	1.22	31	37.82
April	2.51	30	75.30
May	3.74	31	115.94
June	4.22	30	126.60
July	5.01	31	155.31
August	4.27	31	132.37
September	3.06	30	91.80
October	1.89	31	58.59
November	-0.12	30	0.00
December	-0.78	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 = 798.77

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

(798.77 ÷ 304.8) X 4.00 = 10.5 AFA

BENEFICIAL USE FIELD REPORT

04N01W7

Basin/Seq	Owner	Source	Use
63-32644	KELLER AS	GROUND V	MUNICIPAL
63-33869	PARKCRES	GROUND V	AEASTHETIC STORAGE
63-10256	BLAKE, DA	GROUND V	IRRIGATION
63-11197	ROBERTS, I	GROUND V	IRRIGATION
63-124N	FARRIS, BR	BOISE RIVE	IRRIGATION
63-125G	FARRIS, BR	BOISE RIVE	IRRIGATION
63-126E	FARRIS, BR	BOISE RIVE	IRRIGATION
63-16128	BLAKE, DA	GROUND V	DOMESTIC
63-16128	BLAKE, DA	GROUND V	STOCKWATER
63-161X	CONSUME	BOISE RIVE	IRRIGATION
63-16213	PERRY, CO	GROUND V	DOMESTIC
63-168B	BORTLE, J;	BOISE RIVE	IRRIGATION
63-168D	FARRIS, BR	BOISE RIVE	IRRIGATION
63-16916	TACKITT, J	GROUND V	DOMESTIC
63-17005	LAYMAN, I	GROUND V	DOMESTIC
63-17005	LAYMAN, I	GROUND V	STOCKWATER
63-173	FARRIS, BR	BOISE RIVE	IRRIGATION
63-183	PIONEER D	BOISE RIVE	IRRIGATION
63-18309	SAMPLE, D	GROUND V	DOMESTIC
63-18666	EVERETT H	GROUND V	DOMESTIC
63-18800	WATSON, J	GROUND V	DOMESTIC
63-19652	FRICKEY, R	GROUND V	DOMESTIC
63-198AC	FARRIS, BR	BOISE RIVE	IRRIGATION
63-21085	HINCK, F N	GROUND V	DOMESTIC
63-21085	HINCK, F N	GROUND V	STOCKWATER
63-21674	FAIRBANKS	GROUND V	DOMESTIC
63-21674	FAIRBANKS	GROUND V	STOCKWATER
63-21717	EGBERT, D	GROUND V	DOMESTIC
63-22246	STAR FRIE	GROUND V	DOMESTIC
63-22514	HEATON, J	GROUND V	DOMESTIC
63-22665	HERSEY JR,	GROUND V	DOMESTIC
63-22665	HERSEY JR,	GROUND V	STOCKWATER
63-22705	EAGAN, A	GROUND V	DOMESTIC
63-22723	NEW, ETHE	GROUND V	DOMESTIC
63-22757	PEDERSON	GROUND V	DOMESTIC
63-22911	FAIRBANKS	GROUND V	DOMESTIC
63-22911	FAIRBANKS	GROUND V	IRRIGATION
63-22911	FAIRBANKS	GROUND V	STOCKWATER
63-22924	SIMPSON, G	ROUND V	DOMESTIC
63-22944	MYERS, CA	GROUND V	DOMESTIC
63-254	FARRIS, BR	BOISE RIVE	IRRIGATION
63-2545	CO-OPERA	GROUND V	DOMESTIC
63-2545	CO-OPERA	GROUND V	FIRE PROTECTION
63-2545	CO-OPERA	GROUND V	IRRIGATION
63-255	COUZENS, B	OISE RIVE	IRRIGATION
63-31969	STAR SEW	GROUND V	FIRE PROTECTION
63-31969	STAR SEW	GROUND V	MUNICIPAL
63-32480	DRAINAGE	UNNAMED	IRRIGATION
63-32518	FARRIS, BR	UNNAMED	IRRIGATION
63-32519	FARRIS, BR	UNNAMED	IRRIGATION
63-32520	FARRIS, BR	UNNAMED	IRRIGATION
63-32521	FARRIS, BR	WASTE W	IRRIGATION
63-32522	FARRIS, BR	WASTE W	IRRIGATION
63-370	FARRIS, BR	BOISE RIVE	IRRIGATION
63-4516	WILLIS EG	GROUND V	STOCKWATER
63-4684	MARKHAM	GROUND V	DOMESTIC
63-4684	MARKHAM	GROUND V	STOCKWATER

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Basin/Seq	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SESW	NESE	NWSE	SWSE	SESE	Total Acres
63-4699	MAKER, JU	GROUND	V DOMESTIC									X				
63-4699	MAKER, JU	GROUND	V STOCKWATER									X				
63-4960	FARRIS, BR	BOISE RIVE	IRRIGATION										X			
63-4986	CODE, CLIF	GROUND	V DOMESTIC											X		
63-4986	CODE, CLIF	GROUND	V IRRIGATION												X	
63-5275	MARTEN, C	GROUND	V DOMESTIC												X	
63-7296	SAMPLE, D	GROUND	V DOMESTIC													
63-7296	SAMPLE, D	GROUND	V IRRIGATION													
63-7296	SAMPLE, D	GROUND	V STOCKWATER													

Same QQ different use, no overlap

* surface water shares may be used to irrigate within the subdivision



State of Idaho

DEPARTMENT OF WATER RESOURCES

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

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

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

January 22, 2018

PARKCREST HOMES
10090 W FLOATING FEATHER RD
STAR ID 83669

RE: Water Right Permit No. 63-33869

Dear Permit Holders,

I am writing today in regard to the water right permit referenced above which authorizes the diversion of 47.2 acre-feet groundwater for aesthetic storage use. On July 14, 2014, you submitted Proof of Beneficial Use for this permit stating that your project is fully developed. The next step in the water appropriation process is to complete a Beneficial Use Field Examination to determine the extent to which water use was developed under the permit. The field examination is the final step before the Department can issue a water right license.

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

Please contact me within the next thirty (30) days to schedule a field examination for your water right permit. You can reach me by phone at 208-334-2190 or by email at cody.parker@idwr.idaho.gov. If you no longer own the place of use, the Department will work with the current property owner to issue a license or void the permit. If you still own the property, but do not make a timely response in this regard, the permit will be voided.

Please let me know if you have any questions regarding the content of this letter. I appreciate your attention to this matter, and I look forward to hearing from you.

Respectfully,

Cody Parker
Water Resource Agent
IDWR Western Region

Enclosed: WR Report, WR Map, Relinquishment of Permit