

Receipt Details for ID W043442

Status	Adjustment Type	Version
		1

General Information:

Date Received 8/27/2015 10:09:34 AM	Date Deposited 8/27/2015 4:00:03 PM	Region WESTERN	Total Amount \$200.00	Payment Type Check
Payee: STEVENS & SONS WELL DRILLING INC				

Account Information

Check Number 14595

Comment APPLICATION FOR DRILLING PERMIT FOR CITY OF BOISE PARKS AND RECREATION
WITH TAG #D0070197 AND WR# 63-34025
4N 1E S-13 SW NW SW

Fee Details

Error: Subreport could not be shown.

Error: Subreport could not be shown.

Hornbaker, Sonny

From: Terry Scanlan [TScanlan@spfwater.com]
Sent: Wednesday, August 24, 2016 10:40 AM
To: Grimm, Angie
Cc: Hornbaker, Sonny; Miller, Nick
Subject: RE: 63-34025 City of Boise, Magnolia Park

Thanks, Angie. We'll wait to hear from you. Our hope is to be able to figure out whether there is enough water now before proceeding with the amendment.

From: Grimm, Angie [<mailto:Angie.Grimm@idwr.idaho.gov>]
Sent: Wednesday, August 24, 2016 10:23 AM
To: Terry Scanlan <TScanlan@spfwater.com>
Cc: Hornbaker, Sonny <Sonny.Hornbaker@idwr.idaho.gov>; Miller, Nick <Nick.Miller@idwr.idaho.gov>
Subject: RE: 63-34025 City of Boise, Magnolia Park

Terry,

Good morning! Permit 63-34025 will require amendment of the water bearing zone condition. The amendment application will need publication of the new water bearing zone based on the current Department policy.

There are some questions we need to investigate regarding the drilling permit for the existing well before we can address the possibility of drilling one or two new test wells (or exempt wells?). For the well construction aspects we will need to speak with Nick Miller upon his return to the office next week. We will contact you after that discussion.

Regards,
Angie

Angela M. Grimm, P.G.
Water Rights Supervisor
IDWR - Western Region
2735 Airport Way
Boise, ID 83705-5082
(208) 334-2190 phone
(208) 334-2348 fax

From: Terry Scanlan [<mailto:TScanlan@spfwater.com>]
Sent: Tuesday, August 23, 2016 4:14 PM
To: Grimm, Angie
Cc: Hornbaker, Sonny
Subject: 63-34025 City of Boise, Magnolia Park

Angie –

The City of Boise recently drilled a well at Magnolia Park under permit 63-34025.

This permit was originally for a 200-500 foot water bearing zone. We drilled in 2015, expecting to find water in the 400-500 ft range based on a nearby test hole, but the only significant sand we hit was about 10 feet from about 170 to 180 feet. We were unable to complete the well due to the water bearing zone, so the borehole was temporarily abandoned.

Boise Parks amended the permit to 130 to 190 feet, and provided mitigation for the shallow impacts. The driller (Stevens) reopened the hole, completed the well, and test pumped last week. The 10-foot thick zone appears to be a dud, producing a sustainable supply of less than 15 gpm.

There is a thin gravel from about 15 to 25 feet in the area that yields 10 to 50 gpm. Also, some sands between 50 and 70 feet that may be productive. At this point, 40 or 50 gpm sounds pretty good.

Question for you. Do we need to advertise an amendment to tap one or both of these shallow zones?

Question for Sonny (as a follow up to my voice mail). If we need to file an amendment, can we first drill one or two shallow 6" wells under exempt permits to test for the water before proceeding with permitting? I'd hate to have to wait 6 months for an amendment only to find out that there is not enough water to develop.

Thanks in advance for your help.

Terry M. Scanlan, P.E., P.G. | Principal Engineer/Hydrogeologist

SPF Water Engineering, LLC

300 E Mallard Drive, Suite 350 | Boise, ID 83706

p. 208.383.4140 | f. 208.383.4156 | d. 208.489.2121

e. tscanlan@spfwater.com | w. www.spfwater.com

State of Idaho
Department of Water Resources
Permit to Appropriate Water

NO. 63-34025

Priority: July 06, 2015

Maximum Diversion Rate: 0.30 CFS
Maximum Diversion Volume: 42.0 AF

This is to certify, that CITY OF BOISE
DEPT OF PARKS & RECREATION
1104 ROYAL BLVD
BOISE ID 83706-2898

has applied for a permit to appropriate water from:

Source: GROUND WATER

Tributary: BOISE RIVER

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>
MUNICIPAL STORAGE	01/01 to 12/31		42.0 AF
MUNICIPAL FROM STORAGE	03/01 to 11/15		42.0 AF
DIVERSION TO STORAGE	01/01 to 12/31	0.30 CFS	

LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER NW¼SW¼ Sec. 13, Twp 04N, Rge 01E, B.M. ADA County

PLACE OF USE: MUNICIPAL 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 13										X							

PLACE OF USE: MUNICIPAL FROM 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 13										X							

CONDITIONS OF APPROVAL

1. Proof of application of water to beneficial use shall be submitted on or before June 01, 2017.
2. Subject to all prior water rights.
3. 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.
4. The pond established by the storage of water under this right shall not exceed a total capacity of 12.0 acre-feet or a total surface area of 0.8 acre(s).
5. Right 63-34025 authorizes the storage of an annual total of 42.0 acre-feet; 12.0 acre-feet to be used for the initial filling or carryover storage of the pond, 5.0 acre-feet for the replacement of losses due to seepage and evaporation, and up to 25.0 acre-feet for additional refills for municipal from storage use.

State of Idaho
Department of Water Resources**Permit to Appropriate Water**

NO. 63-34025

6. Municipal from Storage use is for supplemental irrigation of 6.5 acres within the authorized place of use in a single irrigation season.
7. The right holder shall make full beneficial use of all surface water available to the right holder for irrigation of the lands authorized to be irrigated under this right. The right holder shall limit the diversion of ground water under this right for land with an appurtenant surface water right(s) to those times when the surface water supply is not available or reasonably sufficient to irrigate the place of use authorized under this right.
8. If the surface water right(s) appurtenant to the place of use for this right is unavailable for any reason other than drought or curtailment by priority (for example abandoned, forfeited, sold, transferred, leased, used on another place of use, or disallowed by court decree), the right holder shall not divert ground water for irrigation purposes on the land with appurtenant surface water rights without an approved transfer pursuant to Section 42-222, Idaho Code, or approval of the Department if a transfer is not required.
9. This right when combined with all other rights shall provide no more than 4.5 afa per acre at the field headgate for irrigation of the place of use.
10. 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.

11. To mitigate for the depletion of water resulting from the use of water under this right and to prevent injury to senior water right holders, the right holder shall cease diverting and using water as authorized by the following water rights for the purposes and amounts specified below. Moreover, the official record for the following water right will be changed to show that diversion and use of water is not authorized because the rights, or portion thereof, are being dedicated to mitigation purposes.

Right No.	Use Changed to Mitigation	Mitigation Rate (cfs)	Mitigation Volume (AF)	Mitigation Acres
63-280	Irrigation	0.14	31.5	7.0

The land that will no longer be irrigated under this right is located within the service area of South Boise Mutual Irrigation Company LTD.

If the specified mitigation right, or portion thereof, is sold, transferred, leased, used on any place of use, or is not deliverable due to a shortage of water or a priority call, then the amount of water authorized for diversion under this right approval shall be reduced by the same proportion as the reduction to the mitigation rights.

12. This right may be subject to cancellation or revocation if the Department is notified by South Boise Mutual Irrigation Company LTD that right 63-280 can no longer be used for mitigation.
13. Water bearing zone to be appropriated is 130 to 190 feet.
14. Diversion and use of water with a temperature greater than 85 degrees Fahrenheit is not authorized under this right.

State of Idaho
Department of Water Resources
Permit to Appropriate Water
NO. 63-34025

15. The point of diversion identified in this right is located within the boundaries of the Boise Front Low Temperature Geothermal Resource Groundwater Management Area. The well driller shall monitor water temperatures while drilling the well. If water with a temperature greater than 85 degrees Fahrenheit is encountered by the driller, drilling must immediately cease, and the Department must be notified. Drilling shall not resume until the Department has reviewed the drilling conditions, and established standards for construction with the driller.
16. Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code and applicable Well Construction Rules of the Department.
17. 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.
18. Point of diversion is located within Lot 3 of Caswell & Sloan Subdivision.
19. Place of use is known as Magnolia Park, located within Lot 3 of Caswell & Sloan Subdivision.

This permit is issued pursuant to the provisions of Section 42-204, Idaho Code.

Signed this 26th day of May, 2016.



Nick Miller,
Manager, IDWR Western Region

Hornbaker, Sonny

From: Hornbaker, Sonny
Sent: Monday, September 14, 2015 10:06 AM
To: 'Terry Scanlan'
Cc: Grimm, Angie
Subject: RE: Magnolia Park Test Well

Terry,

In order for us to rectify this situation, we need to resolve the outstanding issues that pertain to the City of Boise Parks & Recreation test well (D0070197).

The Department received an application to drill a test well, submitted by Ron Stevens on August 27th, 2015. The Drilling application included no attachments or diagrams to explain well design, drilling methodology, testing methods, or abandonment. Additionally, the drilling application referenced a water permit No. 63-34025 which was being defined and compiled through our water right section. Due to the location of the water permit application and associated well projected to draw groundwater within **Basin 63 Groundwater Restricted Area** the drilling permit was not signed until the water permit had been resolved.

On September 3rd, 2015 the City of Boise Parks & Recreation informed the Department that the well had been drilled and that the only productive water bearing zone was between 170 and 200 feet below ground surface. On September 9th, 2015 Tom Neace and I inspected the drilling site and found Stevens drilling rig and mud plant were on site and had drilled to 335 ft as indicated by the sediment samples bag labels. Drilling had been shut down and it appeared had not drilled in several days.

Presently, The drilling permit is remains unsigned and will not be signed until the water permit application is resolved. I have instructed Mr. Stevens to place an 38 foot deep abandonment seal in the existing well to provide surface seal protection until this has all been resolved. Mr. Stevens can remove his rig to other drilling sites. This temporary abandonment shall remain until the permitting and well design has been resolved and properly permitted. The well will not be developed any further Until I have signed a drilling permit for that well.

Sincerely,

Sonny Hornbaker, P.G.
IDWR Western Region
Well Drilling, Geologist/
Emergency Operations Coordinator
2735 Airport Way
Boise, ID 83705-5082
(208) 334-2190

From: Terry Scanlan [<mailto:TScanlan@spfwater.com>]
Sent: Friday, September 11, 2015 3:02 PM
To: Hornbaker, Sonny
Cc: Maria Minicucci
Subject: Magnolia Park Test Well

Sonny –

As mentioned in my voice mail, the Boise Parks and Recreation Department would like to complete the test borehole at Magnolia Park as a 6-inch diameter test well. The specifics of the work would include backfill the mud rotary pilot borehole from 190 to 500 feet, ream the pilot borehole from 0 to 190 feet, install a single string of 6-inch ID PVC casing and screen from 18 to 188 (with a 168 to 188 screen interval) and 6-inch steel casing from +2 to 18 feet, install sand filter pack from 130 to 190 feet, and install surface seal from 0 to 190 feet. We believe that this is the most efficient method to determine if there is an adequate supply at this site to support supplemental irrigation use for the park. The well can be equipped with a welded steel cap until the Park Department gets a water right approval. If the water right application is denied, the Park Department can either abandon the well or limit use to the 2500 gpd/18 gpm exemption. Please let us know if this is acceptable.

Terry M. Scanlan, P.E., P.G. | Principal Engineer/Hydrogeologist

SPF Water Engineering, LLC

300 E Mallard Drive, Suite 350 | Boise, ID 83706

p. 208.383.4140 | f. 208.383.4156 | d. 208.489.2121

e. tscanlan@spfwater.com | w. www.spfwater.com