



State of Idaho

DEPARTMENT OF WATER RESOURCES

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C. L. "BUTCH" OTTER
Governor

DAVID R. TUTHILL, JR.
Director

02/15/2008

SPF Water Engineering, LLC
Attn: Lori Graves
600 River Park Lane, Suite 105
Boise, ID 83706

RE: Water Right Permit No's. 63-31261, 63-12569, & 65-13933

Dear Ms. Graves:

The Department of Water Resources is reviewing the permits referenced above prior to issuing water right licenses. By issuing a license, the Department confirms the extent of development established, to be in compliance with the terms of the permit. SPF's field examinations verified that for each permit, certain elements were developed differently than described on the original permit. Furthermore, following my review of the Beneficial Use Field Reports (BUFR) for these permits, I feel that additional information is needed to fully evaluate the beneficial uses, please refer to my review comments below.

REVIEW COMMENTS

63-31261

1. Please clarify the use of the SWNE quarter-quarter of T6N, R3W, Section 7 and the reporting of 40 acres of irrigation when (1) NAIP 2006 aerials suggests there is no irrigation occurring, and (2) the Beneficial Use Field Report (BUFR) for permit 63-31261 indicates that stockwater is provided to this quarter-quarter suggesting that it is used as range land.
2. Revise the Application for Amendment of Permit to change the places of use to match the BUFR. Refer to Exhibit 1 depicting discrepancies in places of use.
3. The permit, application for amendment of permit, and the BURF all indicate irrigation of the eight acre corners of the NENE, NWNE, and SWNE quarter-quarters of T6N, R3W, Section 18 with groundwater. Per the BUFR narrative, assessed surface water irrigation rights are already provided for these corners by Black Canyon Irrigation District. Therefore, IDWR is going to condition the groundwater rights as supplemental to the surface water rights on these fields. If this interpretation is not accurate please provide an explanation.
4. In regards to the TDH calculation reported in the "Measurement" section of the BUFR, please describe where and how the 39 psi value was obtained.
5. In regards to the TDH calculation reported in the "Measurement" section of the BUFR, please describe how the "20' friction loss" value was obtained.
6. Please resubmit the Performance Curves for the 11CLC 200 hp turbine pump with system "operation points" and/or "pump system head curves" depicted.
7. The pressure irrigation plan prepared by Agri-Line and included in the BUFR is difficult to review and evaluate as submitted, please:
 - a. Resubmit pressure irrigation plan at original scale (1" = 300')

- b. Resubmit a legible copy of the pressure irrigation plan.
 - c. Resubmit the most current copy of the pressure irrigation plan.
 - d. Indicate where Well #2 (including the 200 hp and 7.5 hp pumps) is located on the plan and how the well and each pump ties into the overall system.
 - e. Indicate how the Black Canyon Irrigation Water is incorporated into the system including storage, pumps, and piping connectivity.
8. The caption associated with the photo of "Well #2" indicates a 16 inch diameter well casing containing a 200 hp and 7.5 submersible pump. The configuration described does not seem to be supported by the photo provided. Please clarify or elaborate upon the description, additional photos or diagrams of the well configuration and piping connections would be appreciated.

63-12569

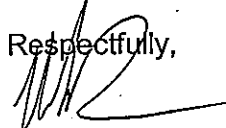
1. File an Application for Amendment of Permit to change the places of use to match the BUFR. Refer to Exhibit 2 depicting discrepancies in places of use.
2. In regards to the TDH calculation reported in the "Measurement" section of the BUFR, please describe where and how the 86 psi value was obtained.
3. In regards to the TDH calculation reported in the "Measurement" section of the BUFR, please describe how the "20' friction loss" value was obtained.
4. Please resubmit the Performance Curves for the 40GS submersible pump with system "operation points" and/or "pump system head curves" depicted.

65-13933

1. See comment 1 from permit 63-31261.
2. File an Application for Amendment of Permit to change places of use to match the BUFR. Refer to attached Exhibit 3 depicting discrepancies in places of use.
3. See comment 3 from permit 63-31261.
4. In regards to the TDH calculation reported in the "Measurement" section of the BUFR, please describe where and how the 15 psi value was obtained.
5. In regards to the TDH calculation reported in the "Measurement" section of the BUFR, please describe how the "20' friction loss" value was obtained.
6. Please resubmit the Performance Curves for the 14RJHC 300 hp turbine pump with system "operation points" and/or "pump system head curves" depicted.
7. See comment 7 from permit 63-31261.

I have enclosed Application for Amendment forms for 63-12560 and 65-13933 depicting the elements of the water rights as they will appear on the licenses when issued. Flowrates, annual volumes, and conditions as depicted on the forms are subject to change pending my review of future materials submitted by you. Please review the amendment forms carefully. If you concur with the information presented, please sign the forms and submit them with a \$50.00 filing fee for each, within 30 days. If you have any questions or require additional time, please call me at (208) 287-4914 or email me at mathew.weaver@idwr.idaho.gov.

Respectfully,


Mathew Weaver, PE
Staff Engineer

Cc: Dan and Karen Hansen

Enclosure(s)

Exhibit 1: 63-31261 "Place(s) of Use" Comparison

Permit - Place of Use

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
T6N	R3W	6																40.0	40
T6N	R3W	7	40.0		40.0	40.0										40.0	40.0		200
T6N	R3W	18					40.0	40.0	40.0	40.0									160
																			0

GRAND TOTAL: 400

Application for Ammended Permit - Place of Use

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
T6N	R3W	6																36.0	36
T6N	R3W	7	36.0		40.0	35.0							4.0		33.0	31.0			179
T6N	R3W	18	8.0	8.0	8.0		39.0	38.0	39.0										140
				C	C			L1	L2										0

Denotes QQ w/ Changes From Permit

GRAND TOTAL: 355

Beneficial Use Field Report - Place of Use

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
T6N	R3W	6																36.0	36
T6N	R3W	7	36.0		40.0	35.0							4.0		33.0	31.0			179
T6N	R3W	18	8.0	8.0	8.0		39.0	38.0	39.0	40.0									180
				C	C			L1	L2										0

Denotes QQ w/ Changes From Ammended Permit

GRAND TOTAL: 395

**Exhibit 2: 65-13933 Comparison of Place(s) of Use
Permit - Place of Use**

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
T6N	R3W	6																40.0	40
T6N	R3W	7	40.0		40.0	40.0										40.0	40.0		200
T6N	R3W	18					40.0	40.0	40.0	40.0									160
																			0

GRAND TOTAL: 400

Beneficial Use Field Report - Place of Use

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
T6N	R3W	6																36.0	36
T6N	R3W	7	36.0		40.0	35.0							4.0		33.0	31.0			179
T6N	R3W	18	8.0	8.0	8.0		39.0	38.0 L1	39.0 L2	40.0									180
																			0

Denotes QQ w/ Changes From Permit

GRAND TOTAL: 395

Exhibit 3: 63-12569 Comparison of "Place(s) of Use"

Permit - Place of Use

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
T6N	R3W	7				S D										S D			0
																			0
																			0
																			0

GRAND TOTAL: 0

Beneficial Use Field Report - Place of Use

TWP	RGE	SEC	NE				NW				SW				SE				TOTALS
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
T6N	R3W	7			S	S										D S	D		0
																			0
																			0
																			0

Denotes QQ w/ Changes From Permit

GRAND TOTAL: 0