



IDAHO WATER RESOURCE BOARD

MEETING NO. 2-12 OF THE IDAHO WATER RESOURCE BOARD

January 27, 2012, at 8:30 am

C.L. "Butch" Otter
Governor

Idaho Water Center
Conf. Rm. 602 C & D
322 E. Front St., Boise, ID 83702

Terry T. Uhling
Chairman
Boise
District 2

Roger W. Chase
Vice-Chairman
Pocatello
District 4

Bob Graham
Secretary
Bonners Ferry
District 1

**Charles "Chuck"
Cuddy**
Orofino
At Large

Leonard Beck
Burley
District 3

Vince Alberdi
Kimberly
At Large

Jeff Raybould
St. Anthony
At Large

Peter Van Der Meulen
Hailey
At Large

-
1. Roll Call
 2. Agenda and Approval of [Minutes 6-11, 7-11, 8-11, and 1-12](#)
 3. Public Comment – The Board will allocate a period of time (not to exceed 30 minutes) for the public to address the Board on subjects not specifically shown as an agenda item.
 4. IWRB Committee and Other Reports
 - a. [Water Resource Planning](#)
 - b. [Stream Flow Enhancement and Minimum Stream Flow](#)
 - c. [Water Supply Bank and Rental Pools](#)
 - d. [Financial Programs](#)
 - e. Upper Snake River Advisory (Operations Forum)
 5. IWRB Financial Program
 - a. Status Report
 - b. 2011 Annual Report
 - c. [Ground Water Districts Bonds Update](#)
 - d. [Jughandle HOA Estates Loan](#)
 - e. Water Transactions
Lower Lemhi Cerise, Lower Lemhi Annual, Sulphur Creek, Bayhorse,
Alturas Lake Creek, and Pole Creek Resolutions
 6. [RP CAMP Update](#)
 7. [TV CAMP Update](#)
 8. [ESPA CAMP and Aquifer Management Efforts Update](#)
 9. [Water Storage Studies Update](#)
 10. [Water Supply Update](#)
 11. Director's Report
 12. Other Items Board Members May Wish to Present
 13. Next Meeting and Adjourn

Americans with Disabilities

The meeting will be held in facilities that meet the accessibility requirements of the Americans with Disabilities Act. If you require special accommodations to attend, participate in, or understand the meeting, please make advance arrangements by contacting Diana Ball, Administrative Assistant, by email diana.ball@idwr.idaho.gov or by phone at (208) 287-4800.

IDAHO WATER RESOURCE BOARD

Work Session in Preparation for
IWRB Meeting No. 2-12

January 26, 2012 at 1:00 pm

Idaho Water Center
6th Floor, Conf Rms 602 C & D
322 E. Front St., Boise, Idaho 83702

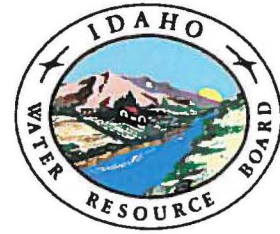
Schedule of Events

IWUA Meetings..... January 25 & 26, 2012 (see IWUA schedule)
Riverside Hotel
IWUA Awards Banquet..... January 26 at 7:00 pm, social hour at 6:00 pm
Riverside Hotel
IWRB Work Session..... January 26 at 1:00 pm, Idaho Water Center
IWRB Meeting 2-12 January 27 at 8:30 am, Idaho Water Center
Water Resource Planning Mtg. 2-12* January 27 at 12:00 pm, Idaho Water Center
*upon adjournment of regular Board meeting
Senate Confirmations** January 27 at 1:30 pm
**Bob Graham, Jeff Raybould, Peter Van Der Meulen

WORK SESSION AGENDA

1. [Idaho's Approach to Hydraulic Fracturing Presentation](#) by Eric Wilson, Idaho Dept. of Lands Minerals Program Manager
2. Financial Action Items
 - a. Jughandle Estates HOA Loan ([Tab 5d](#) in Board Book)
3. Water Transaction Program
 - a. Lower Lemhi Cerise, Lower Lemhi Annual, Sulphur Creek, Bayhorse, Alturas Lake Creek, and Pole Creek Resolutions ([Tab 5e](#) in Board Book)
 - b. [Pahsimeroi Video Presentation](#)
4. ESPA CAMP and Aquifer Management Efforts
 - a. [Status Report](#)
 - b. [Managed Recharge Final Numbers for 2011](#)
 - c. [Hazelton Butte Conversion Project Status Report](#)
5. TV and RP CAMP Activities ([Tabs 6 and 7](#) in Board Book)

Memorandum



To: Idaho Water Resource Board
From: Helen Harrington
Date: January 13, 2012
Re: Water Resource Planning ("Planning") Committee

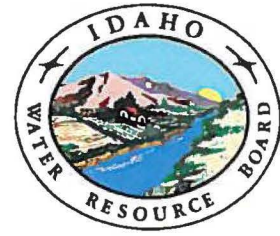
The Planning Committee held meetings on December 5, 2011 and January 11, 2012. The committee has reviewed proposed "final" revisions for the entire draft State Water Plan, excluding the Snake River Basin. All proposed revisions are being coordinated with the Office of the Attorney General and other staff to refine outstanding issues.

The final section which is pending review by the committee is the Snake River Basin policies. These policies are being finalized by staff. Chairman Beck has laid out a schedule for committee review and has requested a committee meeting be scheduled which will be primarily to obtain initial public comment. The tentative schedule is as follows:

| | |
|--------------|---|
| February 15: | Public distribution (posting on webpage) of draft revisions |
| February 27: | Planning Committee meeting, agenda will be presentation of proposed revisions and basis for revisions |
| March 14: | Planning Committee meeting, agenda will include committee discussion and public comment opportunity |

Once the committee approved the final section, the draft revisions will be submitted to the Idaho Water Resource Board for review. I anticipate a work session will be needed for the Board to review and discussion the final draft.

Memorandum



To: Idaho Water Resource Board

From: Helen Harrington

Date: January 17, 2012

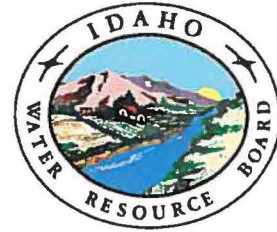
Re: Stream Flow Enhancement and Minimum Stream Flow ("Stream Flow") Committee

Discussion

The Streamflow Committee met on December 5, 2011 to review and make recommendations on several water transactions. The committee recommended all the transactions be approved and are being brought to the IWRB for action under a separate agenda item.

The IDWR approved Permit 96-9395 on February 3, 2010. This permit is for a minimum lake level on Cocolalla Lake in Northern Idaho. This permit will be submitted to the Idaho Legislature as required by Idaho Statute 42-1503 and introduced by Senator Joyce Broadsword. The committee also discussed the Cocolalla Lake minimum lake level permit conditions. The IDWR is requiring a resurvey of the staff gage using known benchmarks to verify the elevation. The cost for the survey is being investigated by staff.

Memorandum



To: Idaho Water Resource Board
From: Monica Van Bussum
Date: January 13, 2012
Re: Water Supply Bank and Rental Pools Committee Report

Discussion

The Water Supply Bank Committee has met twice since the last regular IWRB meeting. The Committee met on December 22, 2011. The committee recommended a time-critical amendment to the Water District No. 65 Rental Pool Procedures. The temporary addendum was to allow space holders with the ability to rent stored water for downstream hydropower general at a reduced rental rate. The IWRB held a special meeting immediately following the committee meeting and approved the temporary addendum. Due to changing weather patterns and water conditions, space holders decided not to implement the temporary procedural change. The Committee also met in Boise on January 10, 2012. There were several purposes of the meeting: provide an update on Bank activities and financial income for 2011, confirm lease renewal periods, consider a current rental rate increase and discuss additional opportunities for revenue.

2011 Bank activity and financial income will be reported later in a full published annual report. To summarize the major findings, Bank rental activity increased greatly in 2011, resulting in increased administrative fees by the Department. Additionally, the advent of the new lease application fee recommended by the IWRB and subsequently passed by the legislature, resulted in significant funding for the Bank.

In August 2010, the Department began approving both new leases and lease renewals with a maximum term of five years, subject to subsequent five-year terms. With the passage of the lease application fee of \$250 per water right, capped at \$500 for stacked water rights, in April 2011, the Department began charging the fee for new leases and lease renewals.

The Bank Committee members directed Monica Van Bussum, Water Supply Bank Coordinator, to prepare several reports: an analysis of 2011 Bank activity for the Big Wood River (Basin 37), a characterization of water rights leased to the Bank indefinitely, and an assessment of potential rental fee structures.

The Bank Committee members discussed the current Water Supply Bank rental rate of \$14 per acre foot per year and the Nez Perce Agreement rate schedule. Under the agreement, the rental rate charged the Bureau of Reclamation for flow augmentation is currently \$14 per acre foot per year but will increase to \$17 per acre foot per year in 2013. The Bank's current rental rate of \$14 was set in 2006 to be consistent with the Nez Perce flow augmentation rate. In addition to the rate increase in 2013, the Nez Perce Agreement also increases the rate as follows:

\$20 per acre-foot from 2018-2022
\$23 per acre-foot from 2023-2030

Committee Recommendation

The Water Supply Bank Committee endorsed increasing the Water Supply Bank rental rate to \$17 per acre foot per year beginning January 1, 2013, and recommends the IWRB support this increase. This item will be brought to the Board at the March meeting.



MEMO

To: Idaho Water Resource Board
From: Brian Patton
Subject: Finance Committee Report
Date: January 16, 2012

The IWRB Finance Committee met on November 2, 2011, and reviewed and made recommendations on a number of items.

Summary of Finance Committee recommendations:

1. Recommendation to leave IWRB current grants policy unchanged.
2. Recommendation to leave the IWRB's standard loan interest rate unchanged (5.5% for irrigation projects, 6% for municipal projects).
3. Recommended modifications to the Pristine Springs loan, which were acted on by the full Board on January 11, 2012.
4. Recommended that \$200,000/year from the Pristine Springs hydropower and rental income and/or the Dworshak hydropower income be directed to provide seed monies to undertake projects related to the Rathdrum Prairie CAMP and the Treasure Valley CAMP. The Pristine Springs hydropower and rental income has previously been dedicated to building a reserve account for the facility. This recommendation has several conditions:
 - a. The income balance from these two sources should be placed in the loan fund.
 - b. There should be a review at 3 years by the Finance Committee to determine how well this is working.
 - c. The IWRB would approve project expenditures.
 - d. In the event that the reserve accounts at Pristine Springs or Dworshak need to be drawn down, the first priority of these funds needs to be replacement of the reserve accounts.



MEMO

To: Idaho Water Resource Board
From: Brian W. Patton
Subject: Water Resource Projects Funding Program Status Report
Date: January 17, 2012

As of **January 1st** the IWRB's available and committed balances in the Revolving Development Account, Water Management Account, and the Secondary Aquifer Management Account are as follows:

Revolving Development Account (main fund)

| | |
|---|-------------|
| Committed but not disbursed | |
| Loans for water projects | \$2,562,385 |
| Water storage studies | 2,701,501 |
| Total committed but not disbursed | 5,263,887 |
| Loan principal outstanding | 8,651,110 |
| Uncommitted balance | 2,073,441 |
| Estimated revenues next 12 months | 2,000,000 |
| Commitments from revenues next 12 months | 0 |
| Estimated uncommitted funds over next 12 months | 4,073,441 |

Rev. Dev. Acct. ESPA Sub-Account

| | |
|---|-------------|
| Committed but not disbursed | |
| CREP | 2,419,581 |
| Aquifer recharge | 378,836 |
| Bell Rapids | 361,620 |
| Palisades storage | 10,000 |
| Black Canyon Exchange | 464,485 |
| Loan for water project | 250,000 |
| Total committed but not disbursed | \$3,884,521 |
| Loan principal outstanding | 409,045 |
| Uncommitted balance | 105,467 |
| Estimated revenues next 12 months | 172,000 |
| Commitments from revenues over next 12 months | 0 |
| Estimated uncommitted funds over next 12 months | 277,467 |

Rev. Dev. Acct. Bell Rapids Sub-Account

| | |
|---|-----------|
| Committed but not disbursed (finance costs) | \$178,933 |
| Estimated revenues next 12 months (1) | 2,000 |
| Commitments from revenues over next 12 months | 2,000 |
| Estimated uncommitted funds over next 12 months | 0 |

Rev. Dev. Acct. Dworshak Hydropower (2)

| | |
|---|-------------|
| Committed but not disbursed (repair fund, etc.) | \$1,292,531 |
| Estimated revenues next 12 months (3) | 200,000 |
| Commitments from revenues over next 12 months | 200,000 |
| Estimated uncommitted funds over next 12 months | 0 |

Rev. Dev. Acct. Pristine Springs Sub-Account

Committed but not disbursed

Repair fund \$1,163,269

ESPA CAMP 1,232,000 To be transferred to

Secondary Aquifer Fund

Total committed but not disbursed \$2,395,269

Loan principal outstanding 8,652,165

Uncommitted balance 0

Estimated revenues next 12 months 1,732,000

Commitments from revenues over next 12 months 1,732,000

Estimated uncommitted funds over next 12 months 0

Rev. Dev. Acct. Upper Salmon/CBWTP Sub-Account

Committed but not disbursed \$2,612,064

(Upper Salmon flow enhancement/reconnect projects)

Estimated revenues next 12 months (4) 30,000

Commitments from revenues over next 12 months 30,000

Estimated uncommitted funds over next 12 months 0

Water Management Account

Committed but not disbursed: \$111,376

Loan principal outstanding 7,065

Uncommitted balance 1,825

Estimated revenues next 12 months 2,000

Commitments from revenues over next 12 months 0

Estimated uncommitted funds over next 12 months \$3,825

Secondary Aquifer Management Fund

Committed but not disbursed: \$293,070

Uncommitted balance 2,164,261

Estimated revenues next 12 months 27,000

Commitments from revenues over next 12 months 0

Estimated uncommitted funds over next 12 months 2,191,261

Total committed but not disbursed \$16,031,641**Total loan principal outstanding 17,719,386****Total uncommitted balance 4,344,984****Total estimated uncommitted funds over next 12 months 6,545,994**

- (1) Exclusive of pass-through payments made by the U.S. Bureau of Reclamation.
- (2) Excess funds generated by the Dworshak Hydropower Project are deposited into the Revolving Development Account (Main Fund) on a monthly basis. To the date of this report this has totaled \$2,011,415.
- (3) This line item includes power sales and interest income after removing debt service. Debt service is paid prior to the funds being deposited in the Revolving Development Account.
- (4) Exclusive of project funds provided by Bonneville Power Administration or federal appropriation sources. These funds are provided to the Board based on individual project proposals and so are not included in the income projection.

The **Packsaddle Water Company** has repaid its \$49,600 loan in full. This loan was used, together with federal NRCS funds, to replace a gravity-pressure irrigation delivery pipeline in the Upper Teton Basin.

The following is a list of potential loans that we know about:

| Potential Applicant | Potential Project | Preliminary Loan Amount | Comment |
|--------------------------------|--|-------------------------|---|
| Cub River Irrigation Company | Replace open lateral with pressure pipeline | \$300,000 | Have received federal (BOR) grant, but Cub River Irrigation serves lands in both Idaho and Utah so waiting on outcome of Utah Water Board loan request. |
| Marysville Canal Company | Phase 3 of gravity pressure pipeline project | \$1,000,000 | Waiting on outcome of federal (NRCS) grant request; IWRB has financed Phases 1 & 2 with \$1.725M in loans to match prior federal grants. |
| Point Springs Grazing District | Pipeline replacement | \$25,000 | |
| Ohio Match Road Water District | Back-up generator at well | \$35,000 | |

Idaho Water Resource Board
Sources and Applications of Funds
as of December 31, 2011
WATER MANAGEMENT ACCOUNT

| | |
|--|-----------------------|
| Original Appropriation (1978)..... | \$1,000,000.00 |
| Legislative Audits | (\$10,645.45) |
| IWRB Appraisal Study (Charles Thompson)..... | (\$5,000.00) |
| Transfer funds to General Account 1101(HB 130, 1983)..... | (\$500,000.00) |
| Legislative Appropriation (6/29/1984)..... | \$115,800.00 |
| Legislative Appropriation (HB988, 1994)..... | \$75,000.00 |
| Turned Back to General Account 6/30/95, (HB988, 1994)..... | (\$35,014.25) |
| Legislative Appropriation (SB1260, 1995, Aquifer Recharge, Caribou Dam)..... | \$1,000,000.00 |
| Interest Earned..... | \$119,450.51 |
| Filing Fee Balance..... | \$2,633.31 |
| Water Supply Bank Receipts..... | \$841,803.07 |
| Bond Fees..... | \$277,254.94 |
| Funds from DEQ and IDOC for Glenns Ferry Water Study..... | \$10,000.00 |
| Legislative Appropriation FY01..... | \$200,000.00 |
| Western States Wate Council Annual Dues..... | (\$7,500.00) |
| Tranfer to/from Revolving Development Account..... | (\$317,253.80) |
| Legislative Appropriation (SB1239, Sugarloaf Aquifer Recharge Project)..... | \$60,000.00 |
| Legislative Appropriation (HB 843 Sec 6)..... | \$520,000.00 |
| Legislative Appropriation (SB1496, 2006, ESP Aquifer Management Plan)..... | \$300,000.00 |
| Legislative Appropriation (HB 320, 2007, ESP Aquifer Management Plan)..... | \$849,936.99 |
| TOTAL | \$4,496,465.32 |

Grants Disbursed:

| | |
|---|----------------|
| Completed Grants..... | \$1,291,110.72 |
| Arco, City of..... | \$7,500.00 |
| Arimo, City of..... | \$7,500.00 |
| Bancroft, City of..... | \$7,000.00 |
| Bloomington, City of..... | \$4,254.86 |
| Boise City Canal Company..... | \$7,500.00 |
| Bonnars Ferry, City of..... | \$7,500.00 |
| Bonneville County Commission..... | \$3,375.00 |
| Bovill, City of..... | \$2,299.42 |
| Buffalo River Water Association..... | \$4,007.25 |
| Butte City, City of..... | \$3,250.00 |
| Cave Bay Community Services..... | \$6,750.00 |
| Central Shoshone County Water District..... | \$7,500.01 |
| Clearwater Regional Water Project Study, City of Orofino et al..... | \$10,000.00 |
| Clearwater Water District..... | \$3,750.00 |
| Cottonwood Point Water and Sewer Association | \$7,500.00 |
| Cottonwood, City of..... | \$5,000.00 |
| Cougar Ridge Water & Sewer..... | \$4,661.34 |
| Curley Creek Water Association..... | \$2,334.15 |
| Downey, City of..... | \$7,500.00 |
| Fairview Water District..... | \$7,500.01 |
| Fish Creek Reservoir Company, Fish Creek Dam Study..... | \$12,500.00 |
| Franklin, City of..... | \$6,750.00 |
| Grangeville, City of..... | \$7,500.00 |
| Greenleaf, City of..... | \$3,000.00 |
| Hansen, City of | \$7,450.00 |
| Hayden Lake Irrigation District..... | \$7,500.00 |
| Hulen Meadows Water Company..... | \$7,500.00 |
| Iona, City of..... | \$1,425.64 |
| Kendrick, City of..... | \$7,500.00 |
| Kooskia, City of..... | \$7,500.00 |
| Lakeview Water District..... | \$2,250.00 |
| Lava Hot Springs, City of..... | \$7,500.00 |
| Lindsay Lateral Association..... | \$7,500.00 |
| Lower Payette Ditch Company..... | \$5,500.01 |
| Maple Grove Estates Homeowners Association..... | \$5,020.88 |
| Meander Point Homeowners Association..... | \$7,500.00 |
| Moreland Water & Sewer District..... | \$7,500.00 |
| New Hope Water Corporation..... | \$2,720.39 |
| North Lake Water & Sewer District..... | \$7,500.00 |

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| | | |
|---|------------------|--------------------------|
| Northside Estates Homeowners Association..... | \$4,492.00 | |
| North Tomar Butte Water & Sewer District..... | \$3,575.18 | |
| North Water & Sewer District..... | \$3,825.00 | |
| Parkview Water Association..... | \$4,649.98 | |
| Payette, City of..... | \$6,579.00 | |
| Pierce, City of..... | \$7,500.00 | |
| Potlatch, City of..... | \$6,474.00 | |
| Preston Whitney Irrigation Company..... | \$7,500.00 | |
| Preston & Whitney Reservoir Company..... | \$3,606.75 | |
| Preston & Whitney Reservoir Company..... | \$7,000.00 | |
| Roberts, City of..... | \$3,750.00 | |
| Round Valley Water..... | \$3,000.00 | |
| Sagle Valley Water & Sewer District..... | \$2,117.51 | |
| South Hill Water & Sewer District..... | \$3,825.00 | |
| St Charles, City of..... | \$5,632.88 | |
| Swan Valley, City of..... | \$5,000.01 | |
| Twenty-Mile Creek Water Association..... | \$2,467.00 | |
| Valley View Water & Sewer District..... | \$5,000.02 | |
| Victor, City of..... | \$3,750.00 | |
| Weston, City of..... | \$6,601.20 | |
| Winder Lateral Association..... | \$7,000.00 | |
| TOTAL GRANTS DISBURSED..... | | (\$1,632,755.21) |
| IWRB Expenditures | | |
| Lemhi River Water Right Appraisals..... | \$31,000.00 | |
| Expenditures Directed by Legislature | | |
| Obligated 1994 (HB988)..... | \$39,985.75 | |
| SB1260, Aquifer Recharge..... | \$947,000.00 | |
| SB1260, Soda (Caribou) Dam Study..... | \$53,000.00 | |
| Sugarloaf Aquifer Recharge Project (SB1239)..... | \$55,953.69 | |
| ESPA Settlement Water Rentals (HB 843 2004)..... | \$504,000.00 | |
| ESP Aquifer Management Plan (SB1496, 2006)..... | \$300,000.00 | |
| ESP Aquifer Management Plan (HB320, 2007)..... | \$801,077.75 | |
| TOTAL IWRB AND LEGISLATIVE DIRECTED EXPENDITURES..... | | (\$2,732,017.19) |
| WATER RESOURCE BOARD RECHARGE PROJECTS..... | | (\$11,426.88) |
| CURRENT ACCOUNT BALANCE..... | | \$120,266.04 |
| Committed Funds: | | |
| Grants Obligated | | |
| Cottonwood Point Water & Sewer Association..... | \$0.00 | |
| Preston - Whintey Irrigation Company..... | \$7,500.00 | |
| Water District No. 1 (Blackfoot Equalizing Reservoir Automation)..... | \$35,000.00 | |
| Legislative Directed Obligations | | |
| Sugarloaf Aquifer Recharge Project (SB1239)..... | \$4,046.31 | |
| ESPA Settlement Water Rentals (HB 843, 2004)..... | \$16,000.00 | |
| ESPA Management Plan (SB 1496, 2006)..... | \$0.00 | |
| ESP Aquifer Management Plan (HB320, 2007)..... | \$48,829.24 | |
| TOTAL GRANTS & LOANS OBLIGATED & UNDISBURSED..... | | \$111,375.55 |
| Loans Outstanding: | Amount Loaned | Principal Outstanding |
| Arco, City of..... | \$7,500 | \$0.00 |
| Butte City, City of | \$7,425 | \$1,969.94 |
| Roberts, City of..... | \$23,750 | \$5,095.22 |
| Victor, City of..... | \$23,750 | \$0.00 |
| TOTAL LOANS OUTSTANDING..... | | \$7,065.16 |
| Uncommitted Funds..... | | \$1,825.33 |
| CURRENT ACCOUNT BALANCE..... | | \$120,266.04 |

IDAHO WATER RESOURCE BOARD
Sources and Applications of Funds
as of December 31, 2011
REVOLVING DEVELOPMENT ACCOUNT

| | | |
|---|-----------------------|------------------|
| Original Appropriation (1969)..... | | \$500,000.00 |
| Legislative Audits..... | | (\$42,264.45) |
| IWRB Bond Program..... | | (\$15,000.00) |
| Legislative Appropriation FY90-91..... | | \$250,000.00 |
| Legislative Appropriation FY91-92..... | | \$280,700.00 |
| Legislative Appropriation FY93-94..... | | \$500,000.00 |
| IWRB Studies and Projects..... | | (\$249,067.18) |
| Loan Interest..... | | \$5,365,993.73 |
| Interest Earned State Treasury (Transferred)..... | | \$1,555,554.84 |
| Filing Fee Balance..... | | \$47,640.20 |
| Bond Fees..... | | \$1,474,173.20 |
| Arbitrage Calculation Fees..... | | (\$9,000.00) |
| Protest Fees..... | | (\$250.00) |
| Series 2000 (Caldwell/New York) Pooled Bond Issuers fees..... | | \$43,657.93 |
| Bond Issuer fees..... | | \$18,973.63 |
| Water Supply Bank Receipts..... | | \$2,581,862.01 |
| Legislative Appropriation FY01..... | | \$200,000.00 |
| Pierce Well Easement..... | | \$2,000.00 |
| Transferred to/from Water Management Account..... | | \$317,253.80 |
| Legislative Appropriation 2004, HB843..... | | \$500,000.00 |
| Legislative Appropriation 2009, SB 1511 Sec 2, Teton/Minidoka Studies..... | | \$1,800,000.00 |
| Legislative Appropriation 2009, SB 1511 Sec 2, Teton/Minidoka Studies Expenditures..... | | (\$1,021,838.18) |
| Weiser Galloway Study - US Army Corps of Engineers..... | | (\$123,367.01) |
| Bell Rapids Water Rights Sub-Account | | |
| Legislative Appropriation 2005, HB392..... | \$21,300,000.00 | |
| Interest Earned State Treasury..... | \$690,573.80 | |
| Bell Rapids Purchase..... | (\$16,006,558.00) | |
| Bureau of Reclamation Principal Amount Lease Payment Paid..... | \$8,294,337.54 | |
| Bureau of Reclamation Interest Paid..... | \$179,727.97 | |
| Bureau of Reclamation Remaining Amount Lease Payment Paid..... | \$9,142,649.54 | |
| First Installment Payment to Bell Rapids..... | (\$1,313,236.00) | |
| Second Installment Payment to Bell Rapids..... | (\$1,313,236.00) | |
| Third Installment Payment to Bell Rapids..... | (\$1,313,236.00) | |
| Fourth Installment Payment to Bell Rapids..... | (\$1,040,431.55) | |
| Interest Credit due to Bureau of Reclamation (Part of Fourth Installment)..... | (\$19,860.45) | |
| Fifth Installment Payment to Bell Rapids..... | (\$1,055,000.00) | |
| Transfer to General Fund - Principal..... | (\$21,300,000.00) | |
| Transfer to General Fund - Interest..... | (\$772,052.06) | |
| BOR payment for Bell Rapids..... | \$1,040,431.55 | |
| BOR payment for Bell Rapids..... | \$1,313,236.00 | |
| BOR prepayment for Bell Rapids..... | \$1,302,981.70 | |
| BOR prepayment for Bell Rapids..... | \$1,055,000.00 | |
| BOR payment for Alternative Financing Note..... | \$7,117,971.16 | |
| Payment to US Bank for Alternative Financing Note..... | (\$7,118,125.86) | |
| Payment for Ongoing Bell Rapids Finance Costs (trustee fees, etc.)..... | (\$6,240.10) | |
| Commitments | | |
| Ongoing Bell Rapids Finance Costs (trustee fees, etc.)..... | \$178,933.24 | |
| Committed for alternative finance payment..... | \$0.00 | |
| Total Commitments..... | \$178,933.24 | |
| Balance Bell Rapids Water Rights Sub-Account..... | (\$0.00) | |
| Pristine Springs Project Sub-Account | | |
| Legislative Appropriation 2008, SB1511, Pristine Springs..... | \$10,000,000.00 | |
| Legislative Appropriation 2006, HB870, Water Right Purchases..... | \$5,000,000.00 | |
| Interest Earned State Treasury..... | \$22,715.89 | |
| Loan Interest..... | \$1,174,478.75 | |
| Transfer from ESP Sub-Account..... | \$1,000,000.00 | |
| Payment for Purchase of Pristine Springs (3)..... | (\$16,000,000.00) | |
| Payment from Magic Valley & Northsnake GWD for Pristine Springs..... | \$2,524,249.57 | |
| Appraisal..... | (\$15,000.00) | |
| Insurance..... | (\$10,475.00) | |
| Recharge District Assessment..... | (\$3,003.00) | |
| Hydro Plants Engineering Certification (Straubhar)..... | (\$1,500.00) | |
| Payment to EHM Engineers for pipeline work..... | (\$1,200.00) | |
| Property Taxes and other fee assessments (Jerome County)..... | (\$5,862.99) | |
| Rental Payments..... | \$998,634.32 | |
| Transferred to Secondary Aquifer Fund (2011 Legislature; HB 291)..... | (\$2,465,300.00) | |
| Pristine Springs Hydropower Projects | | |
| Net power sales revenues..... | \$177,531.41 | |
| Pristine Springs Committed Funds | | |
| ESPA CAMP..... | 1,232,000.00 | |
| Repair/Replacement Fund..... | \$1,163,268.95 | |
| TOTAL COMMITTED FUNDS..... | \$2,395,268.95 | |
| Loans Outstanding | | |
| North Snake and Magic Valley Ground Water Districts..... | \$8,652,165.33 | |
| Total Loans Outstanding..... | \$8,652,165.33 | |
| Balance Pristine Springs Sub-Account..... | \$0.00 | |
| Upper Salmon/CBWTP Sub-Account | | |
| Water Transaction Projects Payment Advances from CBWTP/Accord..... | \$2,631,851.42 | |
| PCSRF Funds for Administration of Non-Diversion Easements on Lemhi River..... | \$161,079.26 | |
| Interest Earned State Treasury..... | \$68,885.57 | |
| Transfer to Water Supply Bank..... | (\$34,110.77) | |
| Payments for Water Acquisition..... | (\$215,651.80) | |
| Committed Funds | | |
| Administration of Non-Diversion Easements on Lemhi River..... | \$161,440.21 | |
| Alturas Lake Creek (Breckenridge)..... | (\$0.00) | |

| | | |
|--|------------------|--------------------------|
| Beaver Creek (DOT LLP)..... | \$15,669.43 | |
| Big Hat Creek..... | \$269.36 | |
| Big Timber Tyler (Leadore Land Partners)..... | \$447,589.95 | |
| Canyon Creek/Big Timber Creek (Beyeler)..... | \$417,580.14 | |
| Fourth of July Creek (Vanderbilt)..... | \$17,484.95 | |
| Iron Creek (Phillips)..... | \$229,173.37 | |
| Lemhi River & Little Springs Creek (Kauer)..... | \$19,559.41 | |
| Little Springs Creek (Snyder)..... | \$261,607.14 | |
| Lower Eighteenmile Creek (Ellsworth Angus Ranch)..... | \$6,025.33 | |
| Lower Lemhi M Olson (Mark Olson)..... | \$11,156.64 | |
| Lower Lemhi Thomas (Robert Thomas)..... | \$2,655.78 | |
| P-9 Bowles (River Valley Ranch)..... | \$293,121.74 | |
| P-9 Charlton (Sydney Downton)..... | \$19,401.82 | |
| P-9 Downton (Jim Downton Ranch)..... | \$232,495.47 | |
| P-9 Elzinga (Elzinga)..... | \$287,577.88 | |
| Whitefish (Leadore Land Partners)..... | \$189,245.07 | |
| Total Committed Funds..... | \$2,612,053.68 | |
| Balance CBWTP Sub-Account..... | | (\$0.00) |
| Eastern Snake Plain Sub-Account | | |
| Legislative Appropriation 2005, HB392..... | \$7,200,000.00 | |
| Legislative Appropriation 2005, HB392, CREP Program..... | \$3,000,000.00 | |
| Interest Earned State Treasury..... | \$1,850,263.95 | |
| Loan Interest..... | \$140,202.56 | |
| Bell Rapids Water Rights Closing Costs..... | (\$6,558.00) | |
| First Installment Payment to Bell Rapids Irr. Co. (Partial)..... | (\$361,800.00) | |
| Second Installment Payment to Bell Rapids Irr. Co. (Partial)..... | (\$361,800.00) | |
| Third Installment Payment to Bell Rapids Irr. Co. (Partial)..... | (\$361,800.00) | |
| Fourth Installment Payment to Bell Rapids Irr. Co. (Partial)..... | (\$614,744.00) | |
| Fifth Installment Payment to Bell Rapids Irr. Co. (Final)..... | (\$1,675,036.00) | |
| Reimbursement from Commerce & Labor W-Canal..... | \$74,709.77 | |
| Transfer to Pristine Springs Sub Account..... | (\$1,000,000.00) | |
| Reimbursement from Magic Valley GWD - Pristine Springs..... | \$500,000.00 | |
| Reimbursement from North Snake GWD - Pristine Springs..... | \$500,000.00 | |
| Reimbursement from Water District 1 for Recharge..... | \$159,764.73 | |
| Palisades (FMC) Storage Costs..... | (\$3,508,224.83) | |
| Reimbursement from BOR for Palisades Reservoir..... | \$2,381.12 | |
| W-Canal Project Costs..... | (\$326,834.11) | |
| Black Canyon Exchange Project Costs..... | (\$35,840.00) | |
| 2008 Recharge Conveyance Costs..... | (\$14,580.00) | |
| 2009 Recharge Conveyance Costs..... | (\$355,253.00) | |
| 2010 Recharge Conveyance Costs..... | (\$398,954.32) | |
| Pristine Springs Cost Project Costs..... | (\$6,863.91) | |
| Loans and Other Commitments | | |
| Commitment - ESPA Comprehensive Aquifer Management Plan - CDR Contract..... | \$0.00 | |
| Commitment - North Snake & Magic Valley GWD Loan - Mitigation Pipeline..... | \$250,000.00 | |
| Commitment - Remainder of Bell Rapids Water Rights Purchase (1)..... | \$361,620.00 | |
| Commitment - CREP Program (HB392, 2005)..... | \$2,419,580.50 | |
| Commitment - Recharge Conveyance..... | \$28,835.59 | |
| Commitment - Additional recharge projects preliminary development..... | \$350,000.00 | |
| Commitment - Palasades Storage O&M..... | \$10,000.00 | |
| Commitment - Black Canyon Exchange Project (fund with ongoing revenues)..... | \$464,484.95 | |
| Commitment - W-Canal Aquifer and Recharge Conveyance..... | \$0.00 | |
| Total Loans and Other Commitments..... | \$3,884,521.04 | |
| Loans Outstanding: | | |
| American Falls-Aberdeen GWD (CREP)..... | \$121,950.13 | |
| Bingham GWD (CREP)..... | \$31,681.16 | |
| Bonneville Jefferson GWD (CREP)..... | \$75,932.93 | |
| Magic Valley GWD (CREP)..... | \$116,841.90 | |
| North Snake GWD (CREP)..... | \$62,639.36 | |
| TOTAL ESP LOANS OUTSTANDING..... | \$409,045.48 | |
| Uncommitted Balance Eastern Snake Plain Sub-Account..... | | \$105,467.44 |
| Dworshak Hydropower Project | | |
| Dworshak Project Revenues | | |
| Power Sales & Other..... | \$5,317,863.87 | |
| Interest Earned State Treasury..... | 439,507.23 | |
| Total Dworshak Project Revenues..... | | \$5,757,371.10 |
| Dworshak Project Expenses (2) | | |
| Transferred to 1st Security Trustee Account..... | \$148,542.63 | |
| Construction not paid through bond issuance..... | \$226,106.83 | |
| 1st Security Fees..... | \$314,443.35 | |
| Operations & Maintenance..... | \$1,351,520.39 | |
| Powerplant Repairs..... | \$58,488.80 | |
| Capital Improvements..... | \$318,366.79 | |
| FERC Payments..... | \$35,956.16 | |
| Total Dworshak Project Expenses..... | | (\$2,453,424.95) |
| Dworshak Project Committed Funds | | |
| Emergency Repair/Future Replacement Fund..... | \$1,262,530.00 | |
| FERC Fee Payment Fund..... | \$30,001.49 | |
| Total Dworshak Project Committed Funds..... | | \$1,292,531.49 |
| Excess Dworshak Funds into Main Revolving Development Account..... | | \$2,011,414.66 |
| TOTAL..... | | \$15,988,437.18 |
| Loans Outstanding: | | |
| Aberdeen-Springfield Canal Company (WRB-491; Diversion structure)..... | Amount Loaned | Principal Outstanding |
| Bee Line Water Association..... | \$329,761 | \$220,628.06 |
| Big Wood Canal Company (23-Jan-09; Thorn Creek Flume)..... | \$157,500 | \$9,094.00 |
| Boise City Canal Company (WRB-492)...18th St Canal Rehab | \$90,000 | \$44,541.67 |
| Boise City Canal Company (WRB-492)...Grove St Canal Rehab | \$82,362 | \$31,581.42 |
| Bonnie Laura Water Corporation (14-Jul-06; Well repairs)..... | \$110,618 | \$62,125.33 |
| | \$71,000 | \$46,273.64 |

| | | | |
|---|-------------|----------------|------------------------|
| Caribou Acres Water Company..... | \$88,769 | \$5,539.93 | |
| Carlin Bay Property Owners Association..... | \$115,609 | \$8,465.96 | |
| Challis Irrigation Company (28-Nov-07; river gate replacement)..... | \$50,000 | \$35,474.42 | |
| Chaparral Water Association..... | \$90,154 | \$22,735.64 | |
| Chaparral Water Association (21-Jan-11; Well deepening & improve)..... | 68,000.00 | \$49,534.84 | |
| Cloverdale Ridge Water Corp. (irrigation system rehab 25-sep-09)..... | 106,400.00 | \$95,954.25 | |
| Conant Creek Canal Company..... | \$239,615 | \$17,030.10 | |
| Country Club Subdivision Water Association (18-May-07, Well Project)..... | \$102,000 | \$76,890.49 | |
| Cub River Irrigation Company..... | \$35,000 | \$0.00 | |
| Cub River Irrigation Company (18-Nov-05; Pipeline project)..... | \$1,000,000 | \$881,018.35 | |
| Cub River Irrigation Company..... | \$500,000 | \$454,549.88 | |
| Dalton Water Association (14-Mar-08; Water main replacement)..... | \$375,088 | \$114,003.99 | |
| Deep Creek Property Owners Association..... | \$25,115 | \$6,064.63 | |
| Enterprise Irrigation District (14-Jul-06; Pipeline project)..... | \$37,270 | \$24,686.77 | |
| Enterprise Irrigation District (North Lateral Pipeline)..... | \$105,420 | \$60,507.44 | |
| Evergreen Terrace Water Association (water study; 25-sep-09)..... | 15,000.00 | \$13,683.91 | |
| Firth, City of..... | \$112,888 | \$55,700.46 | |
| Garden Valley Ranchettes Homeowners Association (25-Jan-05)..... | 2,716.00 | \$1,928.48 | |
| Genesee, City of (Storage tank, 22-Jan-10)..... | 250,000.00 | \$170,517.05 | |
| Georgetown, City of..... | \$278,500 | \$114,444.43 | |
| Harbor View Water & Sewer District (Combined Loans)..... | \$602,819 | \$224,362.72 | |
| Harpster Water District..... | \$9,000 | \$0.00 | |
| Howe Water District (5-Aug-05)..... | \$10,000 | \$0.00 | |
| Hoyt Bluff Water Association (Rathdrum Prairie Well)..... | \$273,029 | \$39,546.65 | |
| Jefferson Irrigation Company (well deepening)..... | \$110,780 | \$0.00 | |
| Jefferson Irrigation Company (well deepening)..... | \$207,016 | \$94,963.43 | |
| Jefferson Irrigation Company (9-May-2008 Well Replacement)..... | \$81,000 | \$71,530.68 | |
| King Hill Irrigation District (24-Sep-10; Pipeline replacement)..... | 300,000.00 | \$175,000.00 | |
| Kulleyspell Estates Property Owners Assoc..... | \$219,510 | \$9,110.36 | |
| Last Chance Canal Company (WRB-497)..... | \$500,000 | \$227,476.12 | |
| Lake Reservoir Company (29-July-11; Payette Lake-Lardo Dam Outlet)..... | \$594,000 | \$182,541.84 | |
| Lakeview Water District..... | \$45,146 | \$4,301.08 | |
| Lava Hot Springs, City of..... | \$347,510 | \$213,581.53 | |
| Lindsay Lateral Association (22-Aug-03)..... | \$9,600 | \$4,274.14 | |
| Lindsay Lateral Association..... | 19,800.00 | \$19,700.00 | |
| Live-More Lake Community (9-Jun-04)..... | \$42,000 | \$21,114.82 | |
| Lower Payette Ditch Company (2-Apr-04; Diversion dam replacement)..... | \$875,000 | \$550,550.34 | |
| Marsh Center Irrigation Company (13-May-05; Hawkins Dam)..... | \$236,141 | \$176,991.40 | |
| Marysville Irrigation Company (18-May-07, Pipeline Project Phase 1).... | \$625,000 | \$414,501.22 | |
| Marysville Irrigation Company (9-May-08, Pipeline Project Phase 2)..... | \$1,100,000 | \$787,125.75 | |
| Meander Point Subdivision Homeowners Association (7-Sep-07; comm)..... | \$330,000 | \$99,942.16 | |
| Meridian Heights Water & Sewer Association (18-May-07)..... | \$350,000 | \$310,983.33 | |
| McGuire Estates Water Users Association (4-Mar-05)..... | \$60,851 | \$36,385.34 | |
| Monument Ridge Homeowners Association (20-Mar-09; irrigation syst)..... | \$360,000 | \$117,602.60 | |
| Mores Creek Rim Ranches Water District..... | \$221,400 | \$97,673.35 | |
| New Hope Water Corporation..... | \$42,000 | \$0.00 | |
| New Hope Water Corporation..... | \$151,460 | \$67,112.12 | |
| Oakley Valley Water Company..... | \$138,331 | \$41,764.52 | |
| PPRT Water System..... | \$70,972 | \$29,901.31 | |
| Packsaddle Water Corporation..... | \$49,600 | \$0.00 | |
| Picabo Livestock Co (Picabo town water system new well)..... | \$38,000 | \$4,744.11 | |
| Pinehurst Water District (14-mar-08; Water Storage tank)..... | \$160,000 | 75,349.03 | |
| Powder Valley-Shadowbrook Homeowners Assoc..... | \$201,500 | \$9,127.64 | |
| Preston Riverdale & Mink Creek Canal Co..... | \$400,000 | \$0.00 | |
| Preston-Whitney Irrigation Company (29-May-09; Fairview Lateral Pipel)..... | \$800,000 | \$521,780.44 | |
| Producers Irrigation Company (17-Mar-06; well replacements)..... | \$185,000 | \$80,197.32 | |
| Ranch Subdivision Property Owners Assoc..... | \$24,834 | \$16,229.15 | |
| Riverside Independent Water District..... | \$350,000 | \$221,757.40 | |
| Robertson Ditch Co..... | \$30,000 | \$3,731.08 | |
| Skin Creek Water Association..... | \$188,258 | \$117,423.09 | |
| Sourdough Point Owners Association (23-Jan-07; water supply & treat)..... | \$750,000 | \$205,450.09 | |
| Spirit Bend Water Association..... | \$92,000 | \$62,866.82 | |
| Thunder Canyon Owners Association (6-Feb-04)..... | \$92,416 | \$54,674.81 | |
| Twenty-Mile Creek Water Association..... | \$104,933 | \$7,183.27 | |
| Twin Lakes Canal Company - Winder Lateral Pipeline Project (13-Jul-0)..... | \$500,000 | \$376,757.34 | |
| Twin Lakes Canal Company (2-Apr-04)..... | \$90,000 | \$54,619.29 | |
| Twin Lakes-Rathdrum Fld Cont Dist (24-Oct-02; Twin Lakes Dam)..... | \$399,988 | \$107,203.73 | |
| Whitney-Nashville Water Company..... | \$225,000 | \$91,003.32 | |
| TOTAL LOANS OUTSTANDING..... | | | \$8,651,109.88 |
| Loans and Other Funding Obligations: | | | |
| Senate Bill 1511 - Teton Replacement and Minidoka Enlargement Studies..... | | \$778,161.82 | |
| Weiser-Galloway Study (28-May-10)..... | | \$1,923,339.60 | |
| Canyon Creek Canal Company (14-Mar-08; Pipeline project)..... | | \$133,599.00 | |
| Chaparral Water Association (21-Jan-11; Well deepening & improvement)..... | | \$18,465.16 | |
| Clearwater Water District - pilot plant (13-Jul-07)..... | | \$80,000.00 | |
| Dover, City of (23-Jul-10; Water Intake project)..... | | \$194,063.00 | |
| Evergreen Terrace Water Association (water study; 25-sep-09)..... | | \$1,316.09 | |
| Foothills Ranch Homeowners Association (7-Oct-11; well rehab)..... | | \$150,000.00 | |
| Garden Valley Ranchettes Homeowners Association (25-Jan-05)..... | | \$8,183.69 | |
| Kulleyspell estates Property Owners Association (water line replacements; 25-sep-09)..... | | \$0.00 | |
| Lake Reservoir Company (29-July-11; Payette Lake-Lardo Dam Outlet Gates)..... | | \$411,458.16 | |
| Lindsay Lateral Association..... | | \$15,300.00 | |
| North Snake & Magic Valley GWD Loan - Mitigation Pipeline..... | | \$250,000.00 | |
| Monument Ridge Homeowners Association (20-Mar-09; irrigation system rehab)..... | | \$0.00 | |
| Portneuf Irrigating Company (29-July-11; Pipeline project)..... | | \$1,300,000.00 | |
| Preston-Whitney Irrigation Company (29-May-09; Fairview Lateral Pipeline)..... | | \$0.00 | |
| TOTAL LOANS AND OTHER FUNDING OBLIGATIONS..... | | | \$5,263,886.52 |
| Uncommitted Funds..... | | | \$2,073,440.78 |
| TOTAL..... | | | \$15,988,437.18 |

- (1) Actual amount needed may vary depending on final determination of water actually purchased and interest income received.
- (2) Debt service on the Dworshak Project bonds is paid before the Dworshak monies are deposited into the Revolving Development Account and is therefore not shown on this balance sheet.

Idaho Water Resource Board
Sources and Applications of Funds
as of December 31, 2011

SECONDARY AQUIFER PLANNING, MANAGEMENT, & IMPLEMENTATION FUND

| | |
|---|----------------|
| Legislative Appropriation (HB 291, Sec 2)..... | \$2,465,300.00 |
| Interest Earned State Treasury (Transferred)..... | \$13,553.67 |
| Water Users Contributions..... | \$100.00 |
| Conversion project (AWEP) measurement device payments..... | (\$4,319.29) |
| Contribution from GWD's for 2011 ESPA Managed Recharge | \$48,224.00 |
| Contribution from GWD's for Revenue Bond Prep Expenses..... | \$14,462.50 |
| Payment for Recharge..... | (\$80,000.00) |

Committed Funds

| | |
|--|---------------------|
| Measurement devices for AWEP conversion projects..... | \$195,680.71 |
| High Country RC&D Cloud Seeding | \$40,000.00 |
| Contribution from GWD's for 2011 ESPA Managed Recharge | (\$31,776.00) |
| GWD Bond Preparatory Expenses..... | \$37,500.00 |
| Idaho Irrigation District Recharge Phase 1..... | \$13,200.00 |
| Fremont-Madison irrigation District Egin Recharge..... | \$38,465.50 |
| Total Committed Funds..... | \$293,070.21 |

TOTAL UNCOMMITTED FUNDS..... \$2,164,250.67

CURRENT ACCOUNT BALANCE..... \$2,457,320.88

STATE OF IDAHO

Idaho Water Resource Board

322 East Front Street
PO Box 83720
Boise, ID 83720
Phone (208) 287-4800
Fax (208) 287-6700



To: Idaho Water Resource Board

From: Daniel A. Nelson, Staff Hydrologist

Date: January 17, 2012

Subject: Valley County Local Improvement District Number One also known as Jughandle Estates HOA – New well and delivery system

1.0 INTRODUCTION

The Valley County Local Improvement District Number One (District) also known as Jughandle Estates HOA is requesting \$907,552 in financing for their new well and delivery system to be connected into the existing system. District is requesting a 20 year term on the loan.

2.0 BACKGROUND

At the Idaho Water Resource Board's (IWRB) request, Jughandle Homeowner's Association successfully formed a Local Improvement District (LID) to provide additional security for the loan. Through the LID process the district used interim financing from a local bank during construction. This IWRB loan would repay the interim financing and pay for remaining project expenses.

The District is located approximately 7 miles southeast of McCall, Idaho in Valley County. The subdivision was established in 1972 and operates a public water system the currently serves 85 homes with a total build out of 108. The water system used a single well which pumped 50 gpm and a 21,300 gallon storage tank. In recent years the well and tank was not able to keep up with demand during peak summer time usage. Historic records showed that the water level in the well declined over the years. Other wells were drilled on site in an attempt to acquire a more reliable water source but these wells were not been put into production as they did not meet the requirements necessary for the subdivision.

During the March 26, 2010 Idaho Water Resource Board (IWRB) meeting, Jughandle Estates HOA made a request for a loan of \$881,000 for this project. The IWRB members decided at this meeting that they would need the added security of a LID to move forward with financing this project. There was some thought that this project could be included with the Bear River Bond Pool, but the timing did not work. The Jughandle Ranch HOA has successfully completed the LID process and is now known as Local Improvement District Number One. It has been determined by Jim Wrigley that an IWRB Revolving Development Account loan would best avenue to finance this project in the current economic climate.

4.0 FINANCIAL ANALYSIS

The District is requesting funding in the amount of \$907,552. This amount at an interest rate of 6% returns the following:

Table 1. Estimated Payment Options

| Term | Estimated Annual Payment | Before Price per Residence /Year | After Price per Residence /Year |
|-------------|---------------------------------|---|--|
| 15 years | \$94,067 | \$1,007 | \$1,872 |
| 20 years | \$79,652 | \$1,007 | \$1,740 |

5.0 SECURITY

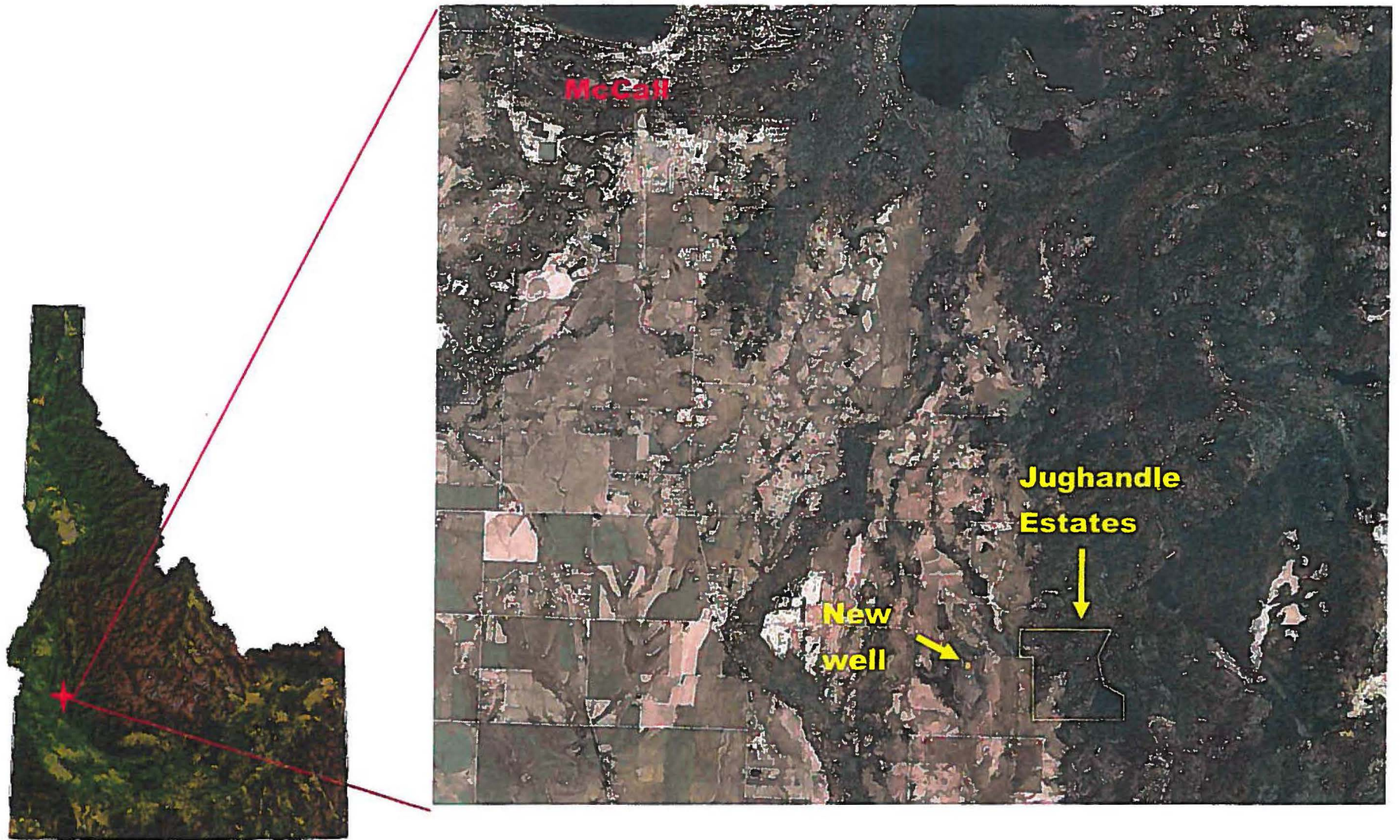
The LID will attach this loan to each property as a property tax. The loan payments will be made through annual tax assessments from each of the 108 properties that have not pre-paid their share of the construction costs. Of the 108 lots, it appears as though 5 of the 108 lots have prepaid.

6.0 CONCLUSION AND RECOMMENDATION

The funding requested by the District is to pay the interim loan required in the LID process for the installation of a pumping plant, well house and controls, and to connect the new well to the existing system. Staff recommends a loan in the amount of \$907,552 at 6% for 20 years with the conditions described in the resolution.

Jughandle Ranch HOA Project Location

3



BEFORE THE IDAHO WATER RESOURCE BOARD

| | | |
|---------------------------------|---|----------------------|
| IN THE MATTER OF THE |) | A RESOLUTION TO MAKE |
| VALLEY COUNTY LOCAL IMPROVEMENT |) | A FUNDING COMMITMENT |
| DISTRICT NUMBER ONE |) | |
| ALSO KNOWN AS JUGHANDLE |) | |
| ESTATES HOMEOWNERS ASSOCIATION |) | |
| _____ |) | |

WHEREAS, the Valley County Local Improvement District Number One also known as Jughandle Estates Home Owners Association (District) has submitted an application to the Idaho Water Resource Board (IWRB) requesting a loan in the amount of \$907,552.00; and

WHEREAS, the District's primary well was no longer able to keep up with or meet demand; and

WHEREAS, the District has constructed using interim financing a new well with pumping plant, controls, well house, and transmission line; and

WHEREAS, Jughandle Homeowners Association at the request of IWRB have successfully formed a Local Improvement District #1 to provided added security to the IWRB to make the loan; and

WHEREAS, the District is a qualified applicant and the proposed project qualifies for a loan from the Revolving Development Account and there is adequate security for the IWRB to make the loan; and

WHEREAS, the proposed well and there project is in the public interest and in compliance with the State Water Plan.

NOW THEREFORE BE IT RESOLVED that the IWRB approves a loan not to exceed \$907,552.00 from the Revolving Development Account at 6% interest with a _____ year repayment term and provides authority to the Chairman or his designee to enter into contracts with the District on behalf of the IWRB.

BE IT FURTHER RESOLVED that this resolution and the approval of the loan is subject to the following conditions:

- 1) The District shall comply with all appropriate Federal, State, and Local rules and requirements.
- 2) The District establish a reserve account in the amount equal to one annual payment within one year of the completion of project construction.

DATED this 27th day of January, 2012.

TERRY T. UHLING, Chairman
Idaho Water Resource Board

ATTEST _____
BOB GRAHAM, Secretary

Valley County, Idaho

Limited Improvement District Revenue Bonds, Series 2012

Jug Handle Ranch Homeowners Association Project

Sources & Uses

Dated 07/01/2012 | Delivered 07/01/2012

Sources Of Funds

| | |
|---|---------------------|
| Par Amount of Bonds | \$830,551.44 |
| Additional required Equity contribution | 77,000.00 |
| Total Sources | \$907,551.44 |

Uses Of Funds

| | |
|---|---------------------|
| Deposit to Debt Service Reserve Fund (DSRF) | 77,000.00 |
| Deposit to Fund | 830,551.44 |
| Total Uses | \$907,551.44 |

PROVIDED FOR DISCUSSION ONLY
Jug Handle HOA LID Rev Se | 1/6/2012 | 9:17 AM

Wedbush Securities Inc.
Public Finance

ORDINANCE NO. 10-4

AN ORDINANCE OF VALLEY COUNTY, IDAHO, CREATING LOCAL IMPROVEMENT DISTRICT NO. 1; DESCRIBING AND SETTING FORTH THE BOUNDARIES OF THE LOCAL IMPROVEMENT DISTRICT; PROVIDING FOR THE PROJECT TO BE FINANCED THEREIN; APPOINTING AN ENGINEER TO PREPARE THE ENGINEER'S REPORT AND ASSESSMENT ROLL; PROVIDING FOR THE PAYMENT OF COSTS AND EXPENSES OF THE PROJECT TO BE ASSESSED AGAINST THE PROPERTY WITHIN THE LOCAL IMPROVEMENT DISTRICT AND THE METHOD OF ASSESSMENT; PROVIDING FOR THE ISSUANCE OF LOCAL IMPROVEMENT DISTRICT BONDS AND WARRANTS; PROVIDING FOR RELATED MATTERS; AND PROVIDING AN EFFECTIVE DATE

WHEREAS, Valley County, Idaho (the "County"), is a political subdivision organized and operating under and pursuant to the laws of the State of Idaho and is authorized by Idaho Code Title 50, Chapter 17, to create local improvement districts for public improvements, and to finance said improvements by the issuance and sale of local improvement district bonds or warrants, which bonds or warrants are payable solely from assessments upon the property benefited thereby; and

WHEREAS, the Board of County Commissioners (the "Board") of the County has determined that it is in the best interests of the County and its residents, and of the property and residents within the proposed local improvement district, to create a local improvement district for the purpose of financing certain public improvements as follows: the installation of water system improvements, together with costs of engineering, legal services, publication, bond issuance costs and reserves, and other related expenses.

WHEREAS, by Petition of landowners of property within the proposed local improvement district, the landowners initiated the formation of a local improvement; and

WHEREAS, by adoption of Resolution No. 10-18 on June 28, 2010, the Board expressed its intention to create a local improvement district for the purpose of financing the costs of such improvements; and

WHEREAS, after proper publication and mailing of notice to the owners of property within the proposed improvement district of intention to create the proposed local improvement district, a public hearing was held by the Board on July 26, 2010, at

which hearing the residents and owners of property within the proposed local improvement district had the opportunity to protest the formation of the local improvement district.

NOW, THEREFORE, BE IT ORDAINED BY THE BOARD OF COUNTY COMMISSIONERS OF VALLEY COUNTY, IDAHO, as follows:

Section 1: The Board of County Commissioners hereby finds and declares:

(a) That Local Improvement District No. 1 of Valley County, Idaho, will be in the best interests of the property affected and of the County;

(b) That there is a reasonable probability that the obligations of Local Improvement District No. 1 of Valley County, Idaho, will be paid; and

(c) That the value of the property subject to assessment within Local Improvement District No. 1 of Valley County, Idaho, (such value being determined by the current assessed valuation of such property for ad valorem tax purposes as shown by the records of the Assessor of Valley County, Idaho) exceeds the sum of the estimated costs to be assessed against the property included in Local Improvement District No. 1 of Valley County, Idaho.

Section 2: There is hereby established and created a local improvement district within the County, to be known and designated as "Local Improvement District No. 1 of Valley County, Idaho", also known as "L.I.D. No. 1", the boundaries of which local improvement district shall be: Jughandle Estates #1, Jughandle Estates #2, Jughandle Highlands #1, and Jughandle Highlands #2, located in all or part of the NE ¼, NW ¼, N ½ of the SW ¼, and N ½ of the SE ¼ of Section 7, Township 17 North, Range 4 East, Valley County, Idaho; Tax No. 2, NE4, S7, T17N, R4E; Tax No. 3 NE4, S7, T17N, R4E, Valley County, Idaho. All property within the boundaries of L.I.D. No. 1 (except property which is exempt from assessment because of government ownership) will be subject to assessment according to the method of assessment set forth in Section 5 of this Ordinance. All protests to the creation of L.I.D. No. 1 are hereby overruled.

Section 3: A description of the project to be financed (the "Project") is as follows: Improvement of existing drinking

water system to include: drilling of new well, construction of pumping station, connection via pipeline from new well/pumping station to existing distribution system, including all engineering, permitting, and incidental costs.

Section 4: The costs and expenses of the Project shall be assessed against the lots and lands included in L.I.D. No. 1 according to the benefits derived method of assessment, as provided by Section 50-1707, Idaho Code.

Section 5: The estimated cost of the Project is \$881,000, of which \$881,000, plus any further costs of any necessary potential bond reserve fund will be paid from a levy of assessments on the property benefited by the Project within L.I.D. No. 1. The assessments against lots and lands included in L.I.D. No. 1 may be paid in annual installments of principal and interest, over a period which may be less than but which shall not exceed thirty (30) years, as shall be determined by the Board, if not otherwise paid as provided by law.

Section 6: In the event that the Board determines to issue interim warrants for the purpose of paying any contractor for the costs of the Improvements for L.I.D. No. 1, or otherwise defraying the Costs of the Improvements as they become due, the Board of County Commissioners, the County Clerk, the County Treasurer are hereby authorized to cause to be issued, sold, and delivered, on behalf of L.I.D. No. 1, interim warrants of L.I.D. No. 1, which warrants shall be in such form and amounts (not exceeding, in the aggregate, \$900,000) as the Board may hereafter provide by resolution, which warrants shall be redeemed and paid in full, together with any accrued and unpaid interest thereon, from the proceeds of the sale of the bonds and the prepayment of assessments of L.I.D. No. 1. The first proceeds of the prepayment of assessments and the sale of Local Improvement District No. 1 bonds are hereby pledged for the payment and redemption of the principal and interest on each interim warrant issued pursuant hereto.

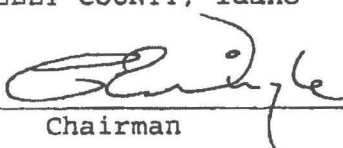
Section 7: SPF Water Engineering is hereby appointed as the engineer for L.I.D. No. 1 and shall prepare the engineer's report and preliminary assessment roll as provided by Section 50-1712, Idaho Code. County staff shall provide support and evaluation as needed.

Section 8: This Ordinance shall be published once in the official newspaper of the City and shall take effect and be in full force immediately upon its passage, approval, and publication.

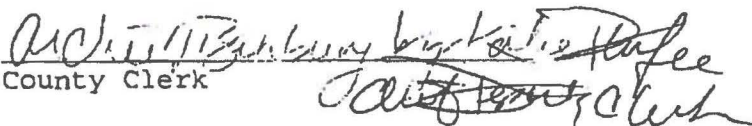
DATED this 2nd day of August, 2010.

VALLEY COUNTY, Idaho

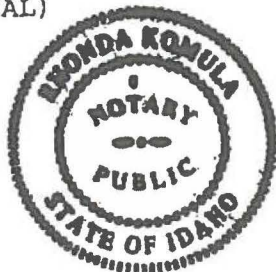
By


Chairman

ATTEST:

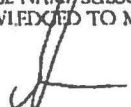

County Clerk

(SEAL)



STATE OF IDAHO, COUNTY OF VALLEY

ON THIS 2nd DAY OF August, 2010 BEFORE
ME, A NOTARY PUBLIC IN & FOR SAID STATE PERSONALLY APPEARED,
Gerald Wink
Archie N. Bannery KNOWN TO BE THE
PERSON WHOSE NAME SUBSCRIBED TO THE WITHIN INSTRUMENT,
AND ACKNOWLEDGED TO ME THAT HE/SHE/IT/HEY EXECUTED THE
SAME



RESIDING AT CASCADE, IDAHO NOTARY PUBLIC,
COMM. EXP. 8-14-2013



September 29, 2009

Idaho Water Resource Board
322 East Front Street
Statehouse Mail
Boise, ID 83720

Subject: Jughandle Estates Financial Assistance Letter of Intent

On behalf of the Jughandle Estates Home Owners Association, SPF Water Engineering (SPF) is preparing this Letter of Intent and application for financial assistance for the Jughandle Estates Water System Improvement Project.

The SPF contact person is:

Stuart Hurley, P.E.
SPF Water Engineering, LLC
300 E. Mallard Dr., Ste. 350
Boise, ID 83706
Phone: 208-383-4140

The Jughandle Estates contact person is:

Donald Chapman – Vice President of Jughandle Estates Home Owners Association
P.O. Box 2289
McCall, ID 83638
Phone: 208-634-5248

WARREN DRAKE
(208) 630-5107

(Mail to)
Jughandle Estates
Attn: _____
PO Box 1324
McCall, ID 83638

Jughandle Estates is located approximately 7 miles southeast of McCall in Valley County, Idaho, as shown in Figure 1. The subdivision is located in Township 17N, Range 4E, Section 7. Jughandle Estates was originally constructed in 1972 or 1973, and operates a public water system that currently serves approximately 85 residential lots. The total build-out of the subdivision is 107 residential lots. The Idaho Public Drinking Water System Identification Number for this water system is ID4430026.

The current public water system is served by a single primary well that has shown a historic decline in production capacity. The well fills an on-site water storage tank with an approximate capacity of 21,300 gallons. Due to inadequate water supply, the water system has experienced higher water demands than supply capacity resulting in the system running out of water, especially during peak summer holidays, such as the 4th of July, when water demand is highest.

The original water supply system was planned with an on-site spring as the primary source of water, and a mid-mountain well to serve as a back-up water supply and for peak demands. Historic files were reviewed and indicate that there have been problems with the spring water being contaminated with coliform bacteria. Several notes also indicated that the spring may not flow year round to continually supply the water system. Currently, there is only one supply well to serve the entire subdivision with an estimated production capacity of approximately 50 gallons per minute (gpm). Additional on-site wells have been drilled over the years in an attempt to secure other sources of

reliable water supply. Two on-site production wells and one test well have been drilled, but were not successful for supply purposes and are not in use.

Several alternatives have been considered for an additional source of water supply, and a water system Facility Plan has been prepared and approved by the Idaho Department of Environmental Quality (IDEQ). The IDEQ Facility Plan identifies a preferred alternative with associated cost estimates for the recommended improvements. Because on-site wells have proven unproductive due to underlying granite rock formations, an off-site well is recommended.

Jughandle Estates constructed a new off-site well to serve as a new source of supply. The off-site well is complete, meets all drinking water quality standards, will provide adequate capacity for the subdivision, and is suitable for potable use. The well is constructed, but the well pumping facility and conveyance piping from the well to the subdivision is not built. Jughandle Estates has borrowed the money for well construction with the intent to consolidate that loan amount with the loan amount requested herein to complete the project.

The total water improvement project includes:

- One new off-site well (completed)
- New well pumping system, well house, and standby power
- 6-inch transmission pipe to connect into the existing water system
- Instrumentation and controls for the system

The estimated improvement costs are provided in Table 1 and shown graphically in Figure 2.

| Table 1 --Estimated Costs | |
|--|-----------------------------|
| Jughandle Estates Water System Improvements Project | |
| Item | Estimated Total Cost |
| Well, well house, pumping system, and accessories | \$445,000 |
| 6" Pipe and Bedding | \$300,000 |
| Engineering and Inspection | \$136,000 |
| Total | \$881,000 |

Jughandle Estates is requesting full financing of the project through the attached loan application, including consolidating their current loan for the well construction. To date, Jughandle Estates has spent a significant amount of time and money drilling on-site wells, one off-site well, and on engineering fees in an attempt to remedy the limited water supply issue they are facing. As such, they are committed to making this project successful.

If additional information is required by the Board, including engineering and/or economic feasibility studies, please let us know. We would be happy to provide any information necessary.

Please contact me at your convenience with any questions or comments.

Sincerely,



Stuart Hurley, P.E.
Project Manager

SPF file number: 390.0030

Memorandum



To: Idaho Water Resource Board

From: Morgan Case

Date: January 27, 2012

Re: Water Transactions Program –Lower Lemhi Permanent Easement - Cerise

Action Item: Attached is an expenditure of funds resolution for the Lemhi Permanent Cerise/TNC Conservation Easement. The purchase of the easement restricting the diversion of 4.32 cfs in the Lower Lemhi River will cost **\$371,520** and **\$49,680** will be secured to pay for permanent administration.

Background

The Lemhi River Basin is an important basin for the spawning, migration and rearing of Chinook salmon, summer steelhead, westslope cutthroat trout, and bull trout. During the irrigation season, low flows at the L-6 diversion can cause migration barriers for out-migrating juvenile Chinook salmon and in-migrating adult Chinook salmon and steelhead. The State of Idaho has committed to maintaining flows between 25 and 35 cfs at the L-6 diversion (See attached map). The 35 cfs flows are needed for out-migration in the spring and 25 cfs is needed for in-migrating adults in the mid- to late-summer.

For the past several years, the Board has been working to meet the 35 cfs target. Efforts have led to the following:

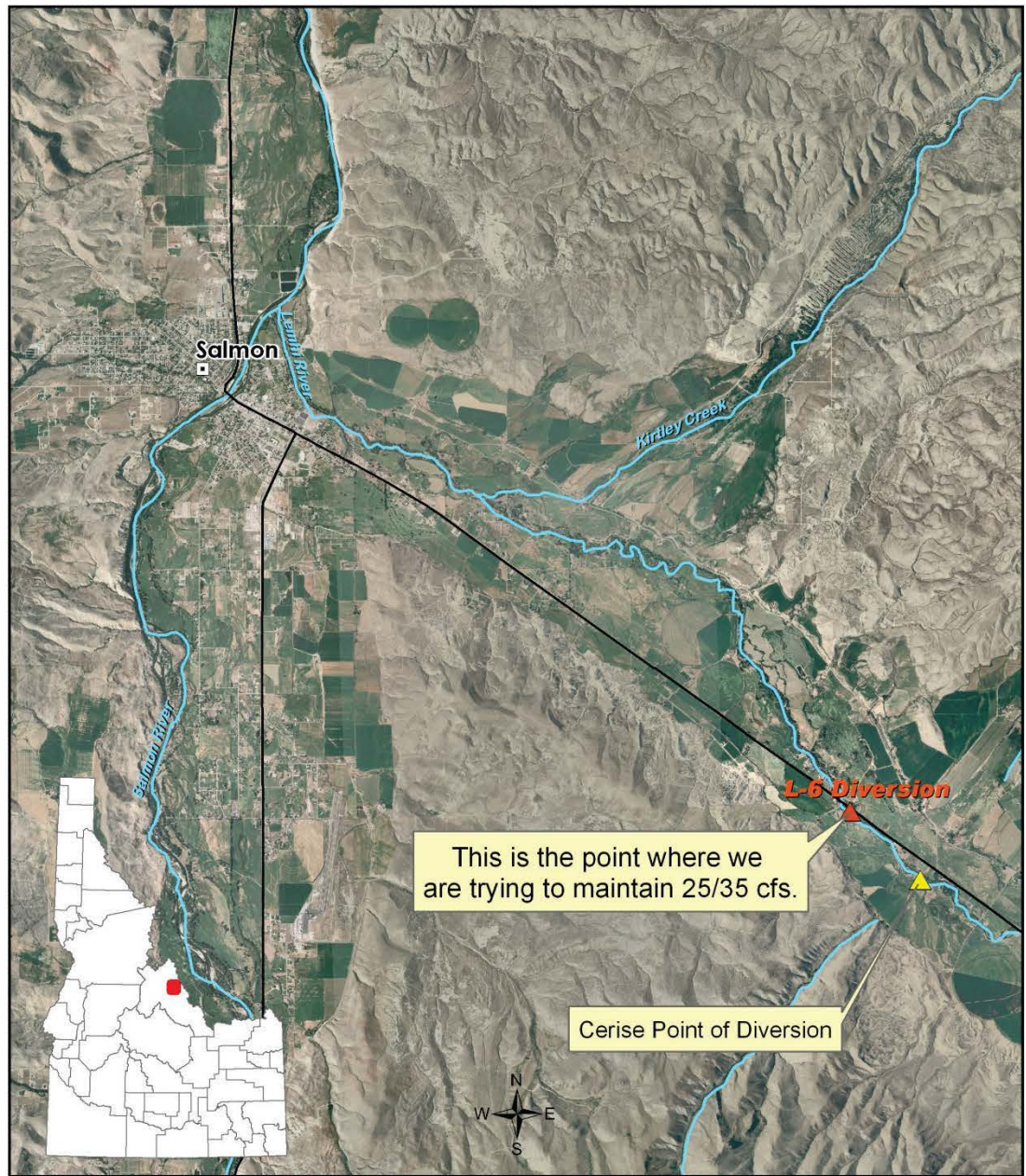
| | |
|----------------------|---------|
| Flow Target: | 35 cfs |
| Currently Protected: | |
| Permanent Easements | (14.93) |
| Thomas Agreement | (1.14) |
| TNC Donation | (0.30) |
| City of Salmon | (2.42) |
| Unmet Target | 16.21 |

The Nature Conservancy (TNC) is in negotiations with Lowell Cerise to purchase his ranch on the Lower Lemhi River. Cerise was an early participant in the easement discussions, but was unable to commit to a sale due concerns about reselling the property. With a TNC purchase, there is once again an opportunity to purchase an easement to protect up to 4.32 cfs to maintain the minimum flow targets. Purchase of the easement will allow TNC to sell ranch encumbered by easements to an interested party at a lower price.

Staff proposes purchasing the easement using CBWTP and Accord funding, at a price of \$86,000 per cfs and \$11,500 per cfs for permanent administration. The total cost would be \$371,500 for the water and \$49,680 for the administration. The administration funding would be placed into the Board's revolving development transaction sub-account for contracting with WD74. This purchased would bring the long-term and permanently protected flow in the Lower Lemhi River up to 23.11 cfs.

The Streamflow Enhancement and Minimum Stream Flow Committee recommends this transaction for approval.

Lower Lemhi River Reach of Concern - L-6 to Salmon River



BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF THE)
LOWER LEMHI CERISE/THE NATURE)
COMPANY CONSERVATION)
EASEMENT)
_____)

A RESOLUTION TO MAKE
A FUNDING COMMITMENT

WHEREAS, staff has developed a draft conservation easement to permanently restrict diversions from the Lemhi River to improve stream flow for anadromous and resident fish; and

WHEREAS, four hundred twenty-one thousand two hundred dollars (\$421,200) are available from Bonneville Power Administration through the Idaho Fish Accords and the Columbia Basin Water Transactions Program to fund said easements; and

WHEREAS, for the easement, the water user has agreed to limit diversions during times of low flow; and

WHEREAS, the Lower Lemhi Cerise/The Nature Conservancy conservation easement is in the public interest and in compliance with the State Water Plan.

NOW THEREFORE BE IT RESOLVED that the IWRB authorizes the Chairman to execute agreements purchasing conservation easements restricting diversion from Lemhi River irrigators, using an amount not to exceed three hundred seventy-one thousand five hundred twenty dollars (\$371,520)

NOW THEREFORE BE IT FURTHER RESOLVED that the IWRB authorizes the Chairman to enter into contract with Water District 74 to administer said easements, using forty-nine thousand six hundred eighty dollars (\$49,680) to be placed in the Board's Revolving Development Account

NOW THEREFORE BE IT FURTHER RESOLVED that this resolution is subject to the condition that the IWRB receives the requested funding from the Bonneville Power Administration through the Idaho Fish Accords and the Columbia Basin Water Transactions Program in the amount of four hundred twenty-one thousand two hundred dollars (\$421,200).

DATED this 27th day of January, 2012.

TERRY T. UHLING, Chairman
Idaho Water Resource Board

ATTEST: _____
BOB GRAHAM, Secretary

Memorandum



To: Idaho Water Resource Board
From: Morgan Case
Date: January 27, 2012
Re: Water Transactions Program – 2012 Lower Lemhi Annual Transaction

Action Item: Attached is an expenditure of funds resolution for the annual Lower Lemhi 2012 agreements not to divert 11.88 cfs in order to bridge to gap between the permanent acquisitions and the flow target in the Lower Lemhi River. The agreement not to divert contracts will not exceed **\$47,583.50** and the Water District 74 contract will not exceed **\$12,800.00**.

Background

The Lemhi River Basin is an important basin for the spawning, migration and rearing of Chinook salmon, summer steelhead, westslope cutthroat trout, and bull trout. During the irrigation season, low flows at the L-6 diversion can cause migration barriers for out-migrating juvenile Chinook salmon and in-migrating adult Chinook salmon and steelhead. The State of Idaho has committed to maintaining flows between 25 and 35 cfs at the L-6 diversion (See attached map). The 35 cfs flows are needed for out-migration in the spring and 25 cfs is needed for in-migrating adults in the mid- to late-summer.

For the past several years, the Board has been working to meet the 35 cfs target. Efforts have led to the following:

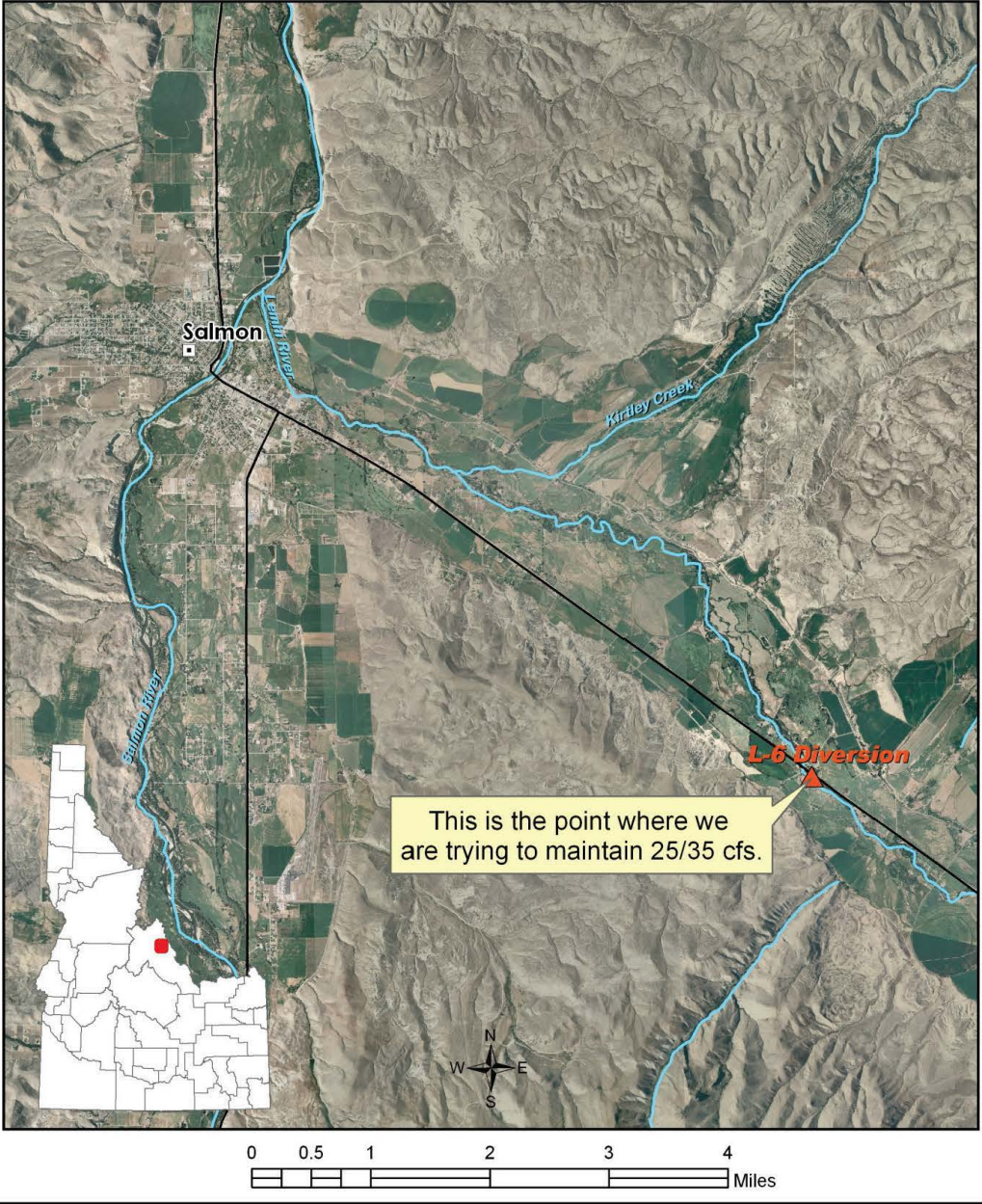
| | |
|--------------------------|---------|
| Flow Target: | 35 cfs |
| Currently Protected: | |
| Permanent Easements | (14.93) |
| Thomas Agreement | (1.14) |
| TNC Donation | (0.30) |
| City of Salmon | (2.42) |
| Proposed Cerise Easement | (4.32) |
| Unmet Target | 11.9 |

These agreements have been administered according to a contract between the Board and Water District 74. The annual leases have been done for several years. As permanent agreements have been acquired the amount needed from annual leases has decreased.

Purchase of the Cerise easement would leave 11.9 cfs of the 35 cfs flow target unprotected. Staff proposes another set of one-year agreements not to divert **11.9 cfs** to meet the target, to be funded through the Accord. Payment is based on the number of days the irrigators are turned off. Compensation is \$80.65/24-hour cfs. Funds would be provided to the Board from the Idaho Fish Accord Water Transactions Fund. Funding for administration by the WD 74 Watermaster will come from the Accord and funds placed in the Board's Revolving Development Water Transactions sub-account, in proportion to the flows secured by each method (\$4077 for the annual and \$8,723 from the Revolving Development Account.)

The agreements not to divert contracts will not exceed **\$47,583.50** with no more than **\$12,800** in administration costs. The Streamflow Enhancement and Minimum Stream Flow Committee recommends this transaction for approval.

Lower Lemhi River Reach of Concern - L-6 to Salmon River



BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF THE)
LOWER LEMHI 2012 ANNUAL)
WATER TRANSACTION AND)
MINIMUM FLOW ADMINISTRATION)
CONTRACTS)
_____)

A RESOLUTION TO MAKE
A FUNDING COMMITMENT

WHEREAS, the Idaho Water Resource Board holds eight conservation easements, restricting diversion from the Lemhi River; and

WHEREAS, staff has developed draft one-year agreements not to divert water from the Lemhi River to improve stream flow for anadromous and resident fish; and

WHEREAS, \$52,483.50 is available through the Idaho Fish Accord – Idaho Water transactions Fund to fund the cost of said agreements; and

WHEREAS, for all agreements, the water users have agreed to limit their diversions during times of low flow; and

WHEREAS, the 2012 Lower Lemhi transactions are in the public interest and in compliance with the State Water Plan.

NOW THEREFORE BE IT RESOLVED that the IWRB authorizes the Chairman to enter into contracts with lower Lemhi River irrigators to not divert out of the Lemhi River, using an amount not to exceed \$47,583.50

NOW THEREFORE BE IT FURTHER RESOLVED that the IWRB authorizes the Chairman to enter into contract with Water District 74 to administer said agreements and previous conservation easements using an amount not to exceed \$12,800.00, with \$4,900.00 coming from the Idaho Fish Accords and \$7,900.00 coming from funds in the Revolving Development Transactions Sub-account

NOW THEREFORE BE IT FURTHER RESOLVED that this resolution is subject to the condition that the IWRB receives the requested funding from the Bonneville Power Administration through the Idaho Fish Accord – Idaho Water Transactions Fund in the amount of \$52,483.50.

DATED this 27th day of January, 2012.

TERRY T. UHLING, Chairman
Idaho Water Resource Board

ATTEST: _____
BOB GRAHAM, Secretary

Memorandum



To: Idaho Water Resource Board
From: Morgan Case
Date: January 27, 2012
Re: Water Transactions Program – Sulphur Creek 2012

Action Item: Attached is a resolution authorizing the Board to purchase Sulphur Creek water rights for a nominal price of \$10.00, lease those rights into the Water Supply Bank, and then rent them out for delivery to the Pahsimeroi River minimum streamflow water right. The resolution allows the expenditure of \$12,305 of Idaho Fish Accord funds for permanent rental and administration of the right.

The Pahsimeroi River supports ESA-listed Chinook salmon and A-run summer steelhead. The mainstem of the Pahsimeroi regularly runs dry in two places, preventing fish passage into the upper reaches of the basin. While there are efforts underway to improve flows in the mainstem, the geology of the basin suggests that a full-season connection is unlikely. For this reason, it is important to focus on improving and expanding access to habitat in the lower mainstem and its tributaries. Projects on Patterson Big Springs Creek which addressed flow, passage, and habitat quality resulted in the immediate utilization of that habitat.

Sulphur Creek is a lower Pahsimeroi tributary that is currently occupied by sculpin and rainbow/steelhead. Factors limiting utilization by Chinook parr and steelhead include passage barriers at culverts and diversions and riparian condition due to pivots crossing the stream bed, flow, and on-stream feedlot and cattle grazing.

The Nature Conservancy (TNC) has been working with the Page family, the owners of the Uresti parcel on Sulphur Creek, to develop a conservation strategy to address some of those limiting factors. The Page family will be selling the Uresti parcel to the Parkinson family and then TNC will purchase an easement that permanently commits the new owners to protect and restore habitat on the ranch. One component of the restoration plan includes the permanent retirement of a portion of the Sulphur Creek water rights. Approximately 100 acres of irrigated ground (1.07 cfs) will be retired with the purpose of removing pivot crossings, making ranch operations more efficient, and restoring stream flow in Sulphur Creek.

In order to protect the flow instream, the Parkinsons intend to donate the rights to the IWRB to put into the Water Supply Bank. If approved, the IWRB can then rent the water rights out for delivery to the Pahsimeroi River minimum stream flow right.

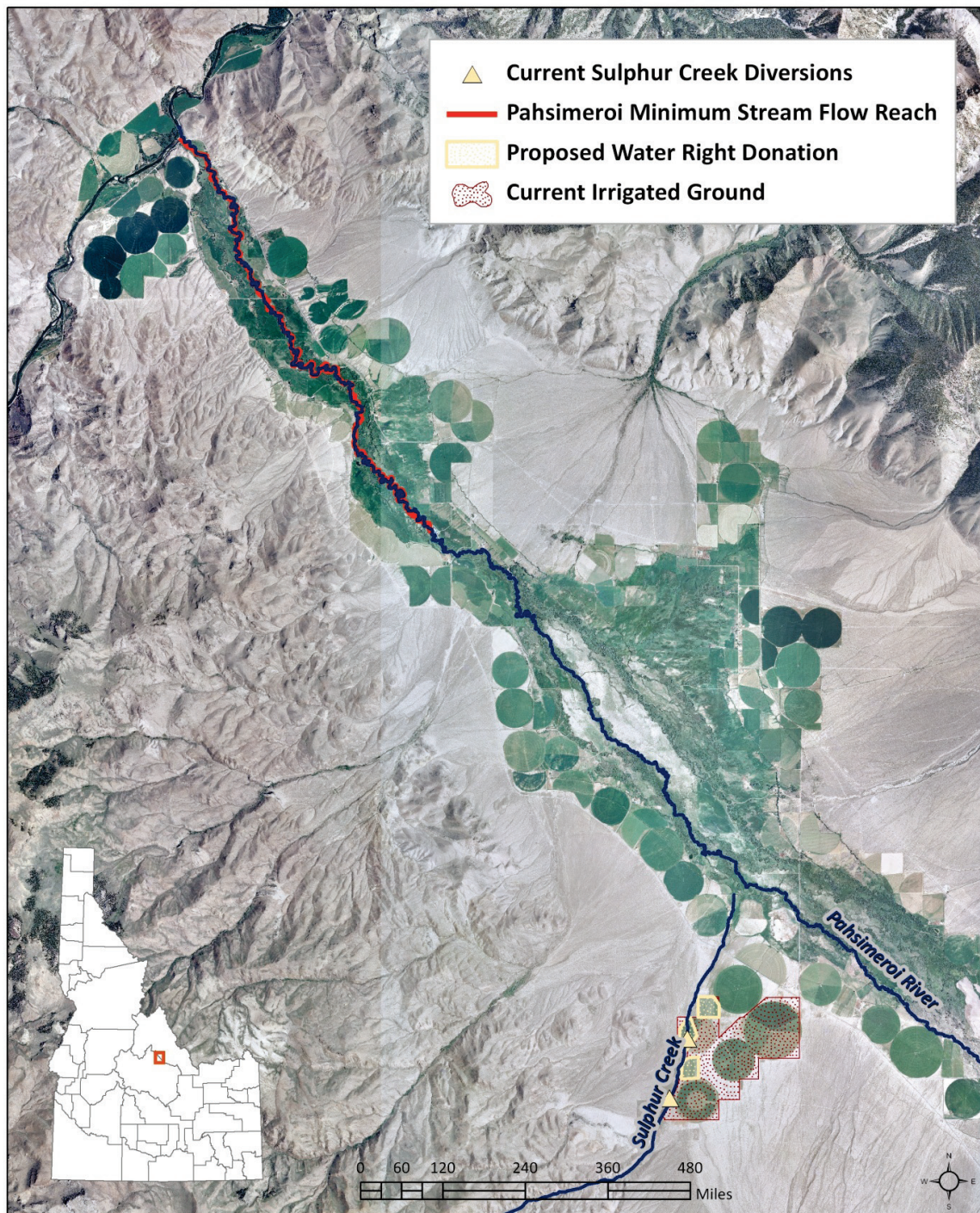
While the rights are a donation, the Deputy Attorney General has advised that the IWRB will need to purchase the rights for a nominal fee of \$10.00 to make the contract legal. The IWRB will also need funding to pay for permanent administration of the rented water, similar to what was done on the TNC Lemhi donation.

Initially, flows left instream will be captured by a ditch downstream, but efforts are underway to remove that ditch and allow Sulphur Creek to remain in the natural channel. TNC is in active negotiations with the water right owners of that ditch.

Staff proposes that the Board accept the water right donation (purchase the right) and seek **\$12,305** (\$11,500 per cfs as in similar transactions) in funding through the Idaho Fish Accords for permanent administration of the rental. Those funds can be used to pay the annual assessment to WD-73 or for a one-time payment to the District for permanent administration.

The Streamflow Enhancement and Minimum Stream Flow Committee recommends this transaction for approval.

Sulphur Creek Donation



BEFORE THE IDAHO WATER RESOURCE BOARD

| | | |
|---|---|----------------------|
| IN THE MATTER OF BOARD PURCHASE |) | A RESOLUTION TO MAKE |
| A PORTION OF WATER RIGHT NOS. 73-2B, |) | A FUNDING COMMITMENT |
| 73-7A, 73-7B, 73-8B, 73-113, AND 73-140 |) | |
| |) | |

WHEREAS, Chinook salmon and steelhead habitat in the Pahsimeroi River basin is limited by low flow in the main-stem and disconnected tributaries; and

WHEREAS, it is in the interest of the State of Idaho to permanently reconnect Sulphur Creek, a Pahsimeroi River tributary to encourage recovery of ESA-listed Chinook salmon and steelhead; and

WHEREAS, the Idaho Water Resource Board ("Board") pursuant to Section 42-1734, Idaho Code, has the authority to acquire, purchase, lease, or exchange land, rights, water rights, easements, franchises, and other property deemed necessary or proper for the construction, operation, and maintenance of water projects; and

WHEREAS, Doug and Janiel Parkinson are purchasing property in the Pahsimeroi River Basin which includes Water Right Nos. 73-2B, 73-7A, 73-7B, 73-8B, 73-113, and 73-140, historically diverted from Sulphur Creek for irrigation purposes; and

WHEREAS, Doug and Janiel Parkinson desire to sell all a portion of their legal interests in Water Right Nos. 73-2B, 73-7A, 73-7B, 73-8B, 73-113, and 73-140 appurtenant to 104.5 acres to the Board, so that the water may remain in Sulphur Creek to enhance fish habitat; and

WHEREAS, upon acquisition of the split portion of Water Right Nos. 73-2B, 73-7A, 73-7B, 73-8B, 73-113, and 73-140 by the Board, those rights may be leased into the Water Supply Bank and rented out through the Idaho Water Supply Bank for delivery to minimum stream flow Water Right No. 73-7045 on the Pahsimeroi River; and

WHEREAS, Doug and Janiel Parkinson shall agree to hold the Board harmless from any and all liability associated with any rental of the rights to minimum stream flow Water Right No. 73-7045 on the Pahsimeroi River in the written agreement governing the rights and responsibilities of the parties.

NOW THEREFORE, BE IT RESOLVED that the Idaho Water Resource Board hereby agrees to purchase the assignment of a portion of the interests held by Doug and Janiel Parkinson in Water Rights 73-2B, 73-7A, 73-7B, 73-8B, 73-113, and 73-140 for ten dollars (\$10.00) contingent upon the Board and Doug and Janiel Parkinson executing a written agreement governing the rights and responsibilities of the parties resulting from the assignment of the water rights.

NOW THEREFORE, BE IT FURTHER RESOLVED that the Board Chairman is authorized to file a split and change in ownership form with the Idaho Department of Water Resources for a portion of Water Right Nos. 73-2B, 73-7A, 73-7B, 73-8B, 73-113, and 73-140.

DATED this 27th day of January, 2012.

TERRY T. UHLING, Chairman
Idaho Water Resource Board

ATTEST: _____
BOB GRAHAM, Secretary

BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF THE SULPHUR)
CREEK PERMANENT RENTAL WATER)
TRANSACTION)
_____)

A RESOLUTION TO MAKE
A FUNDING COMMITMENT

WHEREAS, Chinook salmon and steelhead habitat in the Pahsimeroi River basin is limited by low flow in the main-stem and disconnected tributaries; and

WHEREAS, it is in the interest of the State of Idaho to permanently reconnect Sulphur Creek, a Pahsimeroi River tributary to encourage recovery of ESA-listed Chinook salmon and steelhead; and

WHEREAS, the Idaho Water Resource Board ("Board") is in negotiations with Doug and Janiel Parkinson to acquire a portion Water Right Nos. 73-2B, 73-7A, 73-7B, 73-8B, 73-113, and 73-140 from Sulphur Creek; and

WHEREAS, upon acquisition the Board anticipates leasing the portions of Water Right Nos. 73-2B, 73-7A, 73-7B, 73-8B, 73-113, and 73-140 into the Water Supply Bank and renting the rights out for delivery to minimum stream flow 73-7045 on the Pahsimeroi River; and

WHEREAS, a permanent rental will require administration in perpetuity by the Water District 73 Watermaster; and

WHEREAS, a amount of twelve thousand three hundred five dollars (\$12,305) has been proposed to compensate Water District 73 to permanently administer delivery of the rented rights to minimum stream flow Water Right No. 73-7045; and

WHEREAS, funds are available from the Bonneville Power Administration through the Idaho Fish Accord Idaho Water Transaction Fund or the Columbia Basin Water Transactions Program; and

WHEREAS, the Sulphur Creek Permanent Rental transaction is in the public interest and consistent with the State Water Plan.

NOW THEREFORE, BE IT RESOLVED that the Board authorizes the Chairman to lease the purchased portion of Water Right Nos. 73-2B, 73-7A, 73-7B, 73-8B, 73-113, and 73-140 into the Water Supply Bank and to permanently rent the rights for delivery to Water Right No. 73-7045 on the Pahsimeroi River

NOW THEREFORE, BE IT RESOLVED that the Board authorizes the Chairman to enter into a contract with Water District 73 to permanently administer said rental in the amount of twelve thousand three hundred five dollars (\$12,305).

NOW THEREFORE, BE IT FURTHER RESOLVED that this resolution is subject to the condition that the Board receives the requested funding from the Bonneville Power Administration through the Idaho Water Transaction Program or the Columbia Basin Water Transactions Program in the amount of twelve thousand three hundred five dollars (\$12,305).

DATED this 27th day of January, 2012.

TERRY T. UHLING, Chairman
Idaho Water Resource Board

ATTEST: _____
BOB GRAHAM, Secretary

Memorandum



To: Idaho Water Resource Board
From: Morgan Case
Date: January 27, 2012
Re: Water Transactions Program – Bayhorse Creek 2012

Action Item: Attached is a resolution authorizing the Board to enter into a 20-year agreement not to divert 2.23 cfs out of Bayhorse Creek with the Petersen Ranch Trust and authorizing the Board to expend \$38,410.20 from the Columbia Basin Water Transactions Program.

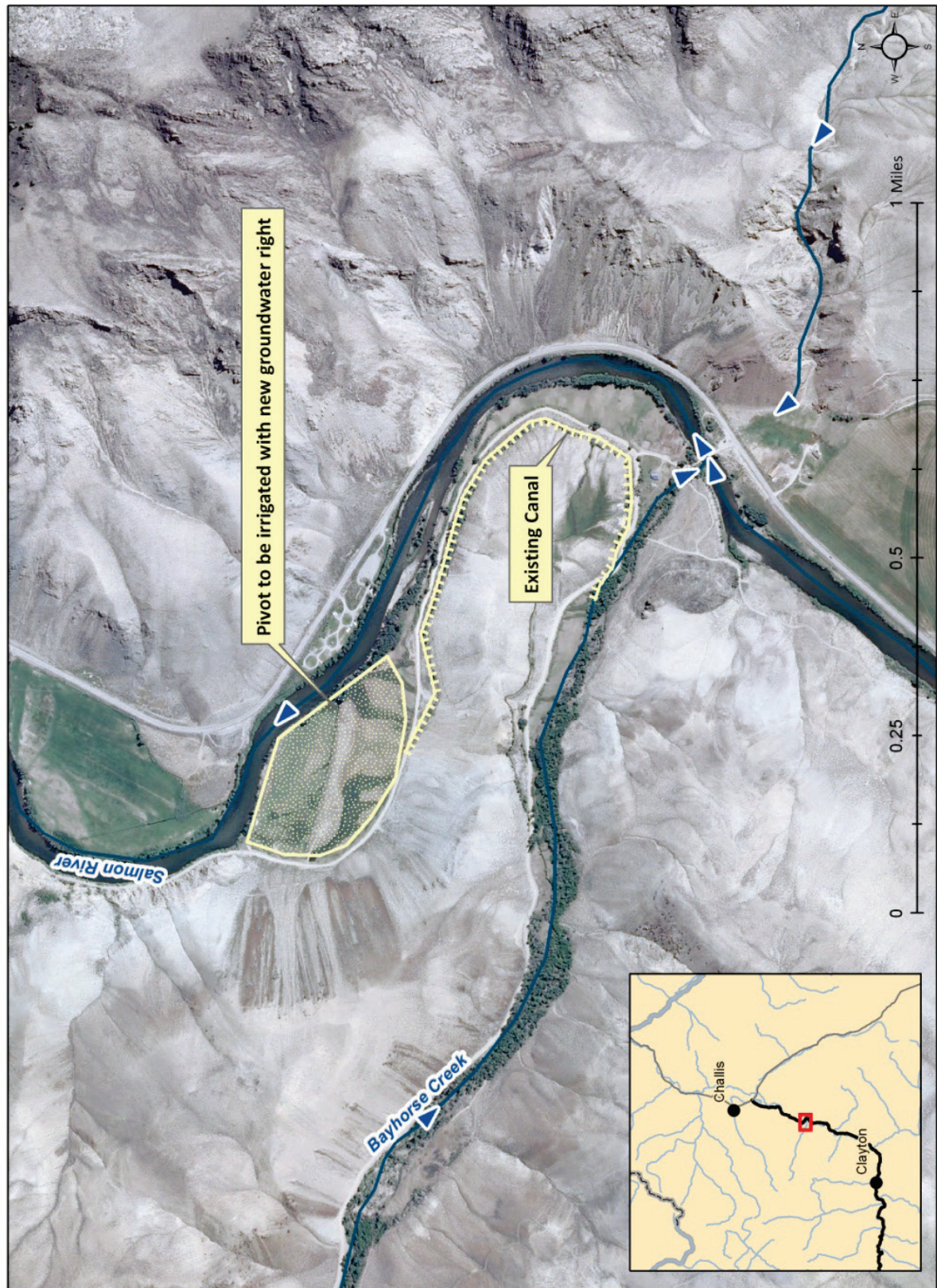
Bayhorse Creek is a Salmon River tributary upstream of Challis, Idaho. It is an important tributary that supplies cold-water refugia for juvenile salmonids and cold water plume into the Salmon River. Irrigation withdrawal can cause flow-limiting conditions that decrease access to cold-water refugia in Bayhorse Creek. Bayhorse Creek also provides habitat for spawning and rearing summer steelhead and resident westslope cutthroat trout.

The Idaho Department of Fish and Game is working with irrigators on Bayhorse Creek to consolidate diversions, increase efficiency, and increase flows in Bayhorse Creek. They have proposed a project to eliminate a mile-long irrigation ditch that runs across a dry hillside to flood irrigate 20 acres belonging to the Petersen Ranch Trust. The 2.23 cfs of surface water right irrigating the ground (a portion of 72-4077) would be left instream and the Ranch would use a new groundwater permit to irrigate those 20 acres.

In order to protect the flows instream and minimize the financial impact of pumping groundwater on the Ranch, staff proposes entering into a 20-year agreement not to divert. The cost of the agreement would be based on pumping cost estimates over 20 years - \$38,410.20. The funds would be requested from the Columbia Basin Water Transactions Program (CBWTP) to be placed into the Board's revolving development water transaction subaccount to be paid out annually.

The Streamflow Enhancement and Minimum Stream Flow Committee recommends this transaction for approval.

Bayhorse Creek Transaction - Petersen Ranch Trust



BEFORE THE IDAHO WATER RESOURCE BOARD

| | | |
|----------------------|---|----------------------|
| IN THE MATTER OF THE |) | A RESOLUTION TO MAKE |
| BAYHORSE CREEK WATER |) | A FUNDING COMMITMENT |
| TRANSACTION CONTRACT |) | |
| _____ |) | |

WHEREAS, staff has developed twenty-year agreement not to divert water from Bayhorse Creek to improve stream flow for anadromous and resident fish; and

WHEREAS, proposals for \$38,410.20 have been submitted to the Columbia Basin Water Transactions Program to be used to fund said agreements; and

WHEREAS, for the agreement, the water users has changed their points of diversion to pump from groundwater and the funds paid under these agreements will approximate the power expenses incurred, over a 20-year period, by changing the points of diversion; and

WHEREAS, staff anticipates the funds being placed into the Idaho Water Resource Board (IWRB) Revolving Development Account for annual payment to the water right owners; and

WHEREAS, the Bayhorse Creek transaction is in the public interest and in compliance with the State Water Plan.

NOW THEREFORE BE IT RESOLVED that the IWRB authorizes the Chairman to enter into contract with Petersen Ranch Trust or its successors for agreements not to divert out of Bayhorse Creek, using an amount not to exceed \$38,410.20

NOW THEREFORE BE IT FURTHER RESOLVED that this resolution is subject to the condition that the IWRB receives the requested funding from the Bonneville Power Administration through the Columbia Basin Water Transaction Program in the amount of \$38,410.20

DATED this 27th day of January, 2012.

TERRY T. UHLING, Chairman
Idaho Water Resource Board

ATTEST: _____
BOB GRAHAM, Secretary

Memorandum



To: Idaho Water Resource Board
From: Morgan Case
Date: January 26, 2012
Re: Water Transactions Program – Alturas Lake Creek 2012

Action Item: A resolution to expend up to \$18,000.00 in interest from Water Transaction Subaccount of the Revolving Development Account to complete an appraisal on the purchase of a portion of Water Right Nos. 71-64A and 71-69.

Alturas Lake Creek is a Salmon River tributary near the headwaters in Stanley basin. It is an important tributary that currently supports spawning Chinook salmon. In the 1990s, Idaho Department of Fish and Game and the Sawtooth National Recreation Area worked with the Breckenridge family to remove a large irrigation diversion that dewatered Alturas Lake Creek and blocked upstream passage for migrating Chinook salmon, bull trout, and steelhead. Alturas Lake supports a population of bull trout that spawns in the tributaries upstream of the lake. Due to the removal of the irrigation diversion, it may now also support overwintering bull trout that then utilize spawning habitat in other upper Salmon tributaries.

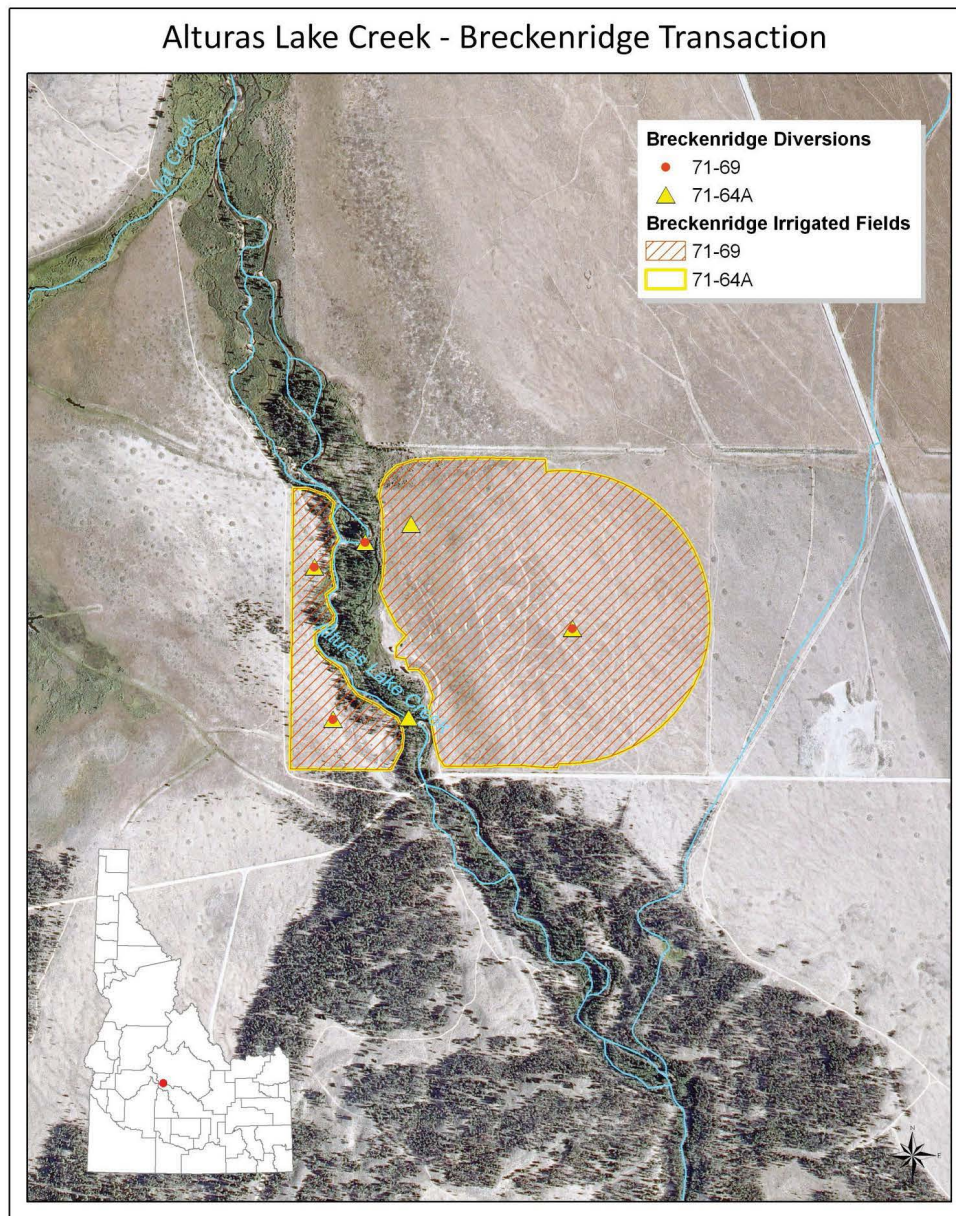
When the irrigation diversion was removed from Alturas Lake Creek, a new irrigation system was installed on the Breckenridge property, consisting of a center pivot and a well. An issue with the price of connecting a power supply to the pivot has prevented the Breckenridge family from irrigating. The Board has rented all or a portion of the Breckenridge water rights for delivery to the Alturas Lake Creek and Salmon River at East Fork minimum stream flows since 2006.

While there is little chance that the rights will be diverted from Alturas Lake Creek in the immediate future, the Breckenridge family has indicated that the water rights appurtenant to the ground not underneath the pivot (45 acres) are for sale to any interested buyers. Recent applications for new water rights in the area have been protested by IDFG and the Board, which may create a demand for these senior rights. Diversion of the rights for a new irrigation purpose may impact the Board's efforts to restore flows for Endangered Species Act-listed fish.

Staff has discussed the possibility of purchasing the water rights with the Breckenridge family. They are interested in selling the rights to the Board to protect instream for the right price. The Board's legal counsel has advised that an appraisal is required if the Board wants to purchase real property, like these water rights. Board staff and the Breckenridge family have agreed that WestWater Research is the most qualified entity to determine the fair market value for water rights. WestWater Research indicated that \$13,000 to \$18,000 would be the range of costs for an appraisal of this kind. They anticipate needing to look into other water transactions and sales to develop the appropriate comparables.

Staff is interested in having a discussion about the Board's interest in purchasing the water rights. If interested, staff recommends moving forward with a water right appraisal to determine fair market value. The Board's Columbia Basin Water Transactions Program FY 2012 contract does not include funding for an appraisal, so Board funds would be needed. Using funds from the Water Transaction Subaccount to pay for the appraisal would create a potential deficit for payments of long-term transactions in the future, but the Board would have the flexibility to cover those payments with money from the main account. If the main account was used to pay for the appraisal and interest accrued that exceeded the total of the committed payments, the Board would have less flexibility in spending that interest. For that

reason, staff recommends using funds from the Water Transaction Subaccount. Staff has requested that the Breckenridge family contribute to the cost of the appraisal. They are considering the request.



BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF APPRAISALS)
FOR ACQUISITION OF WATER IN)
THE SALMON RIVER BASIN)
_____)

A RESOLUTION TO MAKE
A FUNDING COMMITMENT

WHEREAS, the Idaho Water Resource Board (Board) has a contract with the Columbia Basin Water Transactions Program, with funding from the Bonneville Power Administration to undertake permanent or long term water transactions in the Upper Salmon River Basin; and

WHEREAS, water transactions in the Upper Salmon River Basin are intended to improve flows for Endangered Species Act listed Chinook salmon, sockeye salmon, steelhead, and bull trout; and

WHEREAS, Breckenridge Family Partnership Limited holds Water Right Nos. 74-64A and 74-69 from Alturas Lake Creek; and

WHEREAS, Breckenridge Family Partnership Limited is interested in selling a portion of Water Right Nos. 74-64A and 74-69; and

WHEREAS, the Board is required to have the water under consideration for permanent transactions appraised by a certified appraiser familiar with water transactions and expertise in establishing the fair market value of water.

NOW THEREFORE BE IT RESOLVED, that the Board authorizes the expenditure of funds up to eighteen thousand dollars (\$18,000) to obtain the services of a certified appraiser to determine the fair market value of water to be purchased in the Upper Salmon River Basin; and

BE IT FURTHER RESOLVED, that the Board authorizes the Chairman and the Director of the Department of Water Resources to take action necessary to accomplish long-term water transactions including appraisal services.

DATED this 27th day of January, 2012.

TERRY T. UHLING, Chairman
Idaho Water Resource Board

ATTEST: _____

BOB GRAHAM, Secretary

Memorandum



To: Idaho Water Resource Board
From: Morgan Case
Date: January 27, 2012
Re: Water Transactions Program – Pole Creek 2012

Action Item: Extension of Pole Creek 2011 contract.

Pole Creek is a tributary to the Salmon River near the headwaters in the Sawtooth Valley. Pole Creek has the potential to provide high quality habitat for threatened Chinook salmon and bull trout. There is one active diversion on Pole Creek which can seasonally dewater a 2 mile reach of the creek. Salmon Falls Land and Livestock has irrigation and hydropower rights that can divert up to 22 cfs at that diversion. (See attached map.)

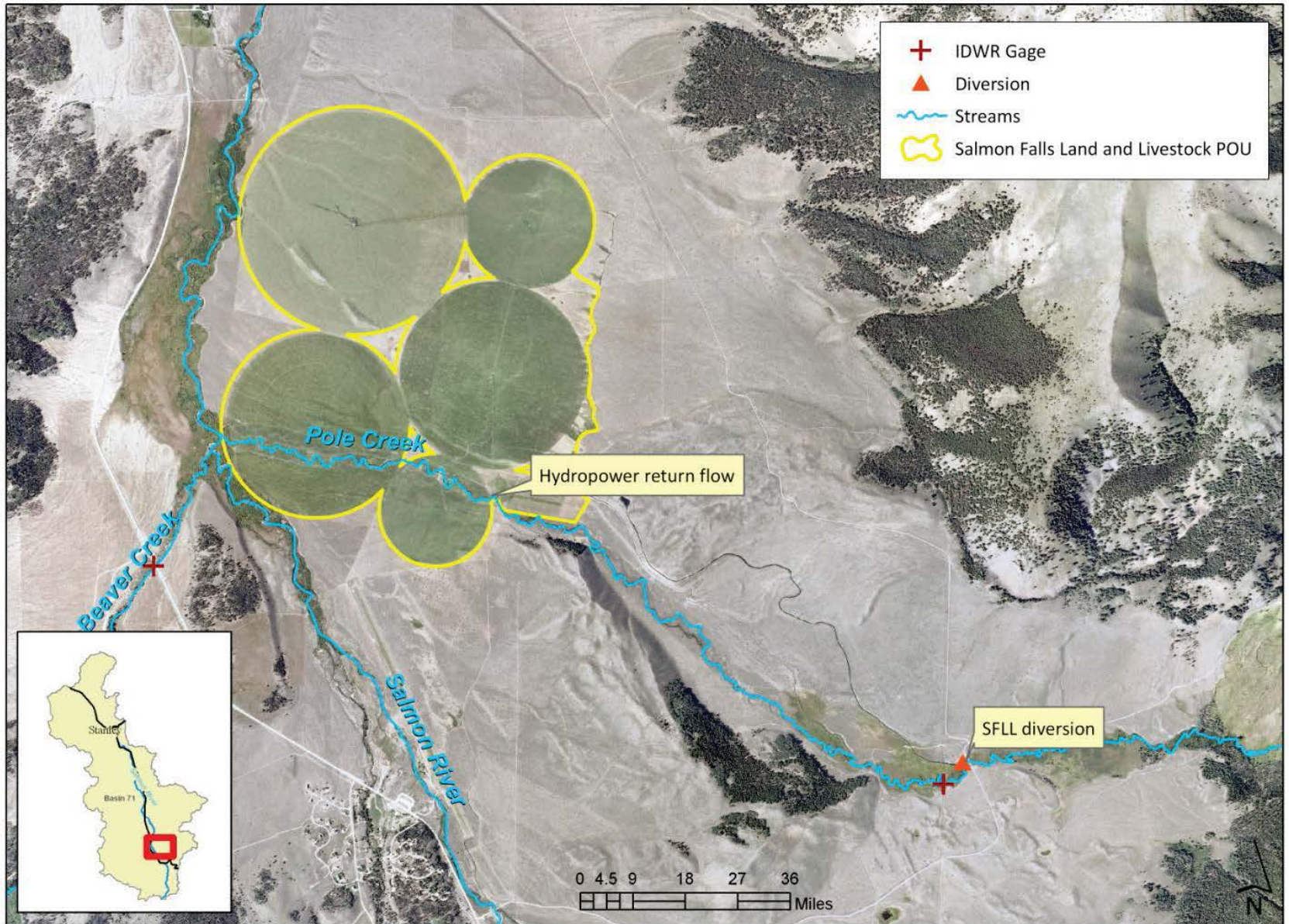
Salmon Falls Land and Livestock is currently working with the Sawtooth National Recreation Area (SNRA) to develop a flow and habitat restoration plan that will allow authorization of their ditch on Federal land. Board staff has been participating in the process in case water transactions can play a role. That flow and habitat restoration plan should be complete by 2013.

From 2006-2010, the Board had a transaction on Pole Creek which maintained a minimum stream flow of 5 cfs in Pole Creek. When flows dropped below 5 cfs, SFLI would turn off the hydropower plant, leave 5 cfs instream, and run a Board-owned diesel generator (purchased using US Fish and Wildlife grant) to turn their pivots.

In 2011, the Board approved a one-year transaction to maintain a 6 cfs minimum flow. During the 2011 irrigation season, flows in Pole Creek exceeded 6 cfs without any diversion reduction. Because the budgeted \$50,000 for the 2011 agreement was not needed, staff proposes extending the term of the contract to include the 2012 irrigation season. That should give the landowners and the SNRA time to complete the restoration plan and begin implementation.

If the Board approves, staff will prepare a contract amendment to extend the term of the existing agreement through the 2012 irrigation season. Funds are still available from the Columbia Basin Water Transactions Program to cover the maximum payment of \$50,000.

Pole Creek - Salmon Falls Land and Livestock Irrigation



BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF THE POLE CREEK)
SALMON FALLS LAND & LIVESTOCK)
COMPANY WATER TRANSACTION)
CONTRACT EXTENSION)
_____)

RESOLUTION

WHEREAS, Chinook salmon, steelhead, and bull trout habitat in the Upper Salmon River basin is limited by seasonally disconnected tributaries; and

WHEREAS, it is in the interest of the State of Idaho to reconnect Pole Creek to encourage recovery of ESA-listed Chinook salmon, steelhead, and bull trout fish; and

WHEREAS, staff negotiated a one-year minimum flow agreement for Pole Creek to reconnect stream flow for anadromous and resident fish in 2011; and

WHEREAS, high flows in Pole Creek in 2011 resulted in a flows of 6 cfs or higher, without the need for payment under the contract; and

WHEREAS, funding allocated for 2011 is available to extend the existing contract to protect a minimum flow in Pole Creek during the 2012 irrigation season; and

WHEREAS, the water user will maintain a flow of 6 cfs in Pole Creek, as measured at the Idaho Department of Water Resources Gage, through the 2012 irrigation season; and

WHEREAS, the Board will compensate Salmon Falls Land and Livestock Company for every day that it is necessary to run a diesel generator to power the pivot irrigation system; and

WHEREAS, funds are available from the Bonneville Power Administration through the Columbia Basin Water Transaction Program; and

WHEREAS, the Pole Creek transaction is in the public interest and consistent with the State Water Plan.

NOW THEREFORE BE IT RESOLVED that the IWRB authorizes the Chairman to extend the contract one-year with Salmon Falls Land and Livestock Company and/or subsequent owners for a minimum flow agreement in Pole Creek.

NOW THEREFORE BE IT FURTHER RESOLVED that the IWRB authorizes the Chairman to enter into a one-year, no-cost lease with Salmon Falls Land and Livestock Co. for the use of the Board-owned diesel generator.

NOW THEREFORE BE IT FURTHER RESOLVED that this resolution is subject to the condition that the IWRB receives the requested funding from the Bonneville Power Administration through the Columbia Basin Water Transaction Program in the amount of fifty thousand dollars and no cents (\$50,000).

DATED this 27th day of January, 2012.

TERRY T. UHLING, Chairman
Idaho Water Resource Board

ATTEST: _____
BOB GRAHAM, Secretary

Memorandum



To: Idaho Water Resource Board
From: Helen Harrington
Date: January 13, 2012
Re: Rathdrum Prairie Comprehensive Aquifer Management Plan (RP CAMP)

No action required.

Discussion

The Rathdrum Prairie Comprehensive Aquifer Management Plan (RP CAMP) adopted by the IWRB in July 2011 has been submitted to the Idaho Legislature for consideration and adoption. The RP CAMP is required to be adopted by the legislature and signed into law by the Governor.

The plan has been sent to Representative John (Bert) Stevenson, chairman of the House Resources and Conservation Committee and Senator Monty Pearce, chairman of the Senate Resources and Environment Committee. Staff is working with the Legislative Services Office to prepare the necessary legislative documents. Based on conversations with Representative Stevenson, we anticipate staff will make a presentation to the House Resources and Conservation Committee and perhaps the senate committee. Board members will be notified when the presentation is scheduled.

Coordination efforts to implement the RP CAMP are continuing. Local leadership among water users has arranged for a "H2O Breakfast" on February 9. This gathering is termed "perspectives on regional water collaboration" and will bring together Gary Spackman from IDWR, Ted Sturdevant, director of the Washington Department of Ecology, and an address by Pat Mulroy, General Manager of the Southern Nevada Water Authority. She has been asked to address regional collaboration among water providers and her perspectives on current trends and events in water management. The IWRB is not an active participant, but it is anticipated that this meeting will play a role in developing regional coordination strategies.

Memorandum



To: Idaho Water Resource Board
From: L. Neeley Miller
Date: January 17, 2012
Re: Treasure Valley Comprehensive Aquifer Management Plan (TV CAMP)

ACTIONS TO BE CONSIDERED:

1. Permanent appointment of Vern Case, as replacement for Gayle Batt, to the Treasure Valley Comprehensive Aquifer Management Plan Advisory Committee (TV CAMP AC). The IWRB had previously appointed Vern to a temporary position on the TV CAMP AC while Gayle served in the 2011 Legislature. Ms. Batt is serving in the 2012 Legislature, so Vern should be made a permanent replacement.
2. Appointment of Ben Kennedy, in place of Michelle Atkinson, to the Treasure Valley Comprehensive Management Plan Advisory Committee (TV CAMP AC). Michelle asked to be replaced because she moved into a new position at Micron and Ben took her position as Water Services Supervisor.

Status Report and Background

The Treasure Valley Comprehensive Aquifer Management Plan Advisory Committee has been meeting since April 2010. A copy of the current advisory committee membership is attached.

The Treasure Valley CAMP Advisory Committee met on January 5, 2012 to review the TV CAMP Draft document. The Advisory Committee has reached consensus on the entire document with exception of the portion related to the Municipal Water Right Act of 1996 (RAFN). The surface irrigators stakeholder group has been asked to provide the Advisory Committee with comments on this section of the document in late January after the group has a discussion at the Idaho Water Users Association meeting.

The TV CAMP Advisory Committee anticipates that a recommended plan will be submitted to the Board by early spring.

| TV CAMP ADVISORY COMMITTEE | |
|---|---|
| MEMBER | AFFILIATION |
| Abramovich, Ron | NRCS |
| Adamson, Brent | Boise County Assessor |
| Amick, Doug | City of Greenleaf Public Works Director |
| Anderson Jamie | Boise County Commissioner |
| Atkinson, Michelle (replaced by Ben Kenney) | Micron Technology, Inc. |
| Barrie , Rex | Boise River Watermaster WD #63 |
| Batt, Gayle (replaced by Vern Case) | Wilder Irrigation District |
| Berggren, Ellen | Army Corps of Engineers |
| Bowling, Jon | Idaho Power Company |
| Burnell, Barry | Idaho Dept of Environmental Quality |
| Dane, Russ | Keller Williams Realty |
| Decker, Kevin | Idaho Wildlife Federation, Treasurer |
| Deveau, Paul | Boise Project Board of Control |
| Dixon, Dave | Owner, Greenleaf Farms Inc. |
| Duspiva, Gary | Canyon County P&Z Commission |
| Echeita, Mike | City of Eagle Public Works Director |
| Funkhouser, Allen | Drainage District # 2 |
| Fuss, Michael | Nampa Public Works Director |
| Goodson, Stephen | Governor's Office |
| Howard, Matt | Bureau of Reclamation |
| Jones, Chris | VP Ted Trueblood Chapter, Trout Unlimited |
| Larson, Bill | Treasure Valley Partnership |
| Leatherman, Megan | Ada County |
| McKee, Lynn | Vice Chair, Ada Cty. SWCD |
| Nelson, Greg | Farm Bureau member, former mayor of Kuna |
| Patton , Brian | Idaho Department of Water Resources |
| Peter, Kathy | former Dir. Of USGS Idaho Water Science Program |
| Pline, Clinton | Board, Nampa-Meridian Irrigation District |
| Prigge, John | Sorrento Lactalis, Wastewater Treatment Manager |
| Rhead, Scott | Director Engineering for United Water |
| Ronk, Jayson | VP of Idaho Assn of Commerce & Industry |
| Schmillen, Bob | City of Middleton Public Works Director |
| Shoemaker, Gary | City of Caldwell Water Dept. |
| Stewart, Lon | Sierra Club |
| Stewart, Warren | Engineering Manager, City of Meridian Public Works Dept |
| Telford, Craig | Mayor of Parma |
| Thornton, John | N. Ada Cty. GW users; N. Ada Co Foothills Assoc; |
| Ward, Rick | Idaho Dept of Fish and Game |
| Woods, Paul | Boise City Public Works Dept. |
| Yerton, Janice | Water System Operator, Kuna |
| Zirschky, Mark | Pioneer Irrigation District |

Memorandum



To: Idaho Water Resource Board
From: Cynthia Bridge Clark
Date: January 17, 2012
Re: Status of Ongoing Storage Water Studies

Weiser-Galloway Project

- A series of studies have been initiated to determine whether to move forward with comprehensive feasibility, environmental and engineering studies of the previously proposed Galloway Dam and Reservoir project on the Weiser River. The first study, the *Weiser-Galloway Gap Analysis, Economic Evaluation and Risk-Based Cost Analysis Project, March 2011* (Gap Analysis), was a reexamination of the U.S. Army Corps of Engineers studies (1987-1994) of the dam site based on current conditions and new information. It identified 181 gaps in information in the earlier studies, two of which were identified as critical to determining whether Weiser-Galloway is a viable project. The two critical gaps included:
 1. Determining the safety, suitability and integrity of geologic structures at the potential dam and reservoir site.
 2. Determining whether benefits would be realized from the Weiser-Galloway project by analyzing a series of operating scenarios. Potential benefits include flood control, hydropower, water storage, pump back, irrigation, recreation and flow augmentation requirements for anadromous fish recovery.
- On July 29, 2011, the IWRB passed a resolution authorizing expenditure of up to \$2 million dollars to study the two major data gaps identified in the Gap Analysis.
- On August 26, 2011, the IWRB entered into cost-sharing partnership agreements with the Corps to complete the two new technical studies to address questions raised by the data gaps: 1) the *Weiser River Geologic Investigation and Analysis Project*, and 2) the *Snake River Operational Analysis Project*.
- Geologic Investigation activities:
 - Multiple site visits by members of the project technical team to develop a drilling plan;
 - Contract development: The Corps is coordinating with the U.S. Bureau of Reclamation's (Reclamation) regional drill crew due to their proximity to the site. The IWRB will contract directly with Reclamation to perform drilling activities while the Corps will develop the drilling work plan, environmental assessment, and perform the geologic and core analyses.
 - Under a contract with the IWRB, airborne LiDAR and orthophotography were collected for the project area. This data will support both of the studies and provide data for future flood mapping and other potential activities in the basin. In addition, high resolution data was collected at the potential dam site using a Terrestrial Laser Scanner (a powerful survey instrument designed to capture 3-D images of the earth's surface). This data was collected as part of a federal grant received by Idaho State University's Department of Geosciences and the Idaho National Laboratory to help develop and process remote-sensing technologies and to make that technology available to the public.
 - Ongoing coordination with land owners to identify access routes and agreements;
 - Initiation of an Environmental Assessment in the areas impacted by drilling activities in coordination with the BLM.

- Operational Analysis activities: The bulk of the Operational Analysis will be delayed until results of the Geologic Analysis are available. However, preliminary tasks have been initiated including updating of basin hydrology; identification of appropriate system optimization models; and identification of operational constraints. Coordination with Idaho Power Company and Reclamation has also been initiated.
- The studies are expected to be complete by fall 2013.
- **No action is required by the IWRB at this time.**

Lower Boise River Interim Feasibility Study

- The *Water Storage Screening Analysis* was completed in August 2010 by the U.S. Army Corps of Engineers (Corps) in partnership with the IWRB. The top three ranked storage sites identified through the analysis were a raise or new dam at the existing Arrowrock Dam site, the Alexander Flats site, and the Twin Springs site. The IWRB recommended the top three ranked sites be carried forward for more in-depth analysis as called for in the Interim Feasibility Study agreement. Study activities were suspended after completion of the screening analysis pending availability of federal match funding.
- In June 2011, the Corps received \$30,000 of federal match funds to resume study activities. As directed by the IWRB, the Corps performed additional engineering analysis of the Arrowrock storage concept, the top ranked site in the screening analysis, to identify any potential fatal flaws. Results of the analysis are reflected in the *Lower Boise River Interim Feasibility Study, Preliminary Evaluation of Arrowrock Site, October 2011* (report). The report is available on the Corps' website: <http://www.nww.usace.army.mil/boise/briefs/reports.asp>. See also attached project status fact sheet.
- The report examined the proposed Arrowrock site to identify 1) the most appropriate storage concept (raise of the existing structure or construction of a new facility downstream); 2) whether there were any major engineering or geological constraints that would make either concept unfeasible; and 3) issues for future study.
- Based on available information, the analysis did not identify any geologic or engineering constraints that could discount one concept over the other, but recommended further study of raising the existing Arrowrock Dam if only one concept is pursued. The report also identifies additional issues that should be evaluated in order to better understand the viability of Arrowrock site.
- A summary of the results was presented at the November 2, 2012 IWRB meeting and at public meetings as requested.
- **No action is required by the IWRB at this time.**

Henrys Fork Basin Study

- The IWRB and the Bureau of Reclamation (Reclamation) are conducting a study of water resources in the Henrys Fork River basin to develop alternatives to improve water supply conditions in the Eastern Snake Plain aquifer and Upper Snake River basin. The study will identify opportunities for development of water supplies and improvement of water management while sustaining environmental quality.
- Reclamation is currently performing a "reconnaissance level" evaluation and technical analysis of alternatives identified for further study. These include new or existing surface water storage projects, as well as managed ground water recharge, agricultural conservation and management, municipal and industrial conservation, and market based alternatives.
- Reclamation continues to provide updates on the progress of the technical analysis to the Henry's Fork Watershed Council and is coordinating directly with the stakeholders for data and feedback. Reclamation expects to complete the reconnaissance phase by December 2011 and to initiate the appraisal level analysis of a short-list of alternatives by March 2012.
- **No action is required by the IWRB at this time.**



Lower Boise River General Investigation Interim Feasibility Study

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

BACKGROUND: The U.S. Army Corps of Engineers (Corps) and Idaho Water Resource Board (IWRB) are partnering on an interim feasibility study of the lower Boise River and tributaries from Lucky Peak Dam downstream to the confluence with the Snake River. Significant development in the river corridor and population growth has sparked interest in flood risk management and water supply issues. Interest has also been expressed in environmental restoration, to include habitat preservation, aesthetics and recreation along the Boise River.

The interim feasibility study is focusing on water storage as one potential measure for addressing water supply demand and flood risk reduction planning objectives. The study is currently evaluating surface water storage sites upstream of Lucky Peak Dam and updating flood risk information. A later, second phase of the feasibility study will conduct a more comprehensive analysis of the watershed to examine additional strategies to address flood risk, water supply and ecosystem restoration purposes.

Additional information about the study, including reports and analyses, can be found on the Corps' study website located at www.nww.usace.army.mil/boise/brifs/default.asp, or by contacting Project Manager Ellen Berggren at 208-345-2065 or Boise.Office@usace.army.mil.

STUDY AUTHORITIES: The Corps' study authorization is provided by Section 414, Water Resources Development Act (WRDA) of 1999, authorizing a feasibility study for flood control on the Boise River; and Section 4038, WRDA 2007, modifying the 1999 authority to include ecosystem restoration and water supply as project purposes.

IWRB study authorization is provided by bills and memorials passed by the 2008 Idaho Legislature, including House Bills 428 and 644 which established the Statewide Comprehensive Aquifer Planning and Management Program (Section 42-1779, *Idaho Code*) and created the Aquifer Planning and Management Fund. The program provides for technical studies needed to evaluate ground and surface water resource management alternatives. House Joint Memorial 8, also passed in 2008, directed IWRB to initiate and complete the study of additional water storage projects in the state in coordination with other public and private entities.

STUDY OVERVIEW: The Corps developed a two-phased feasibility study approach to assist with the Treasure Valley Comprehensive Aquifer Management Plan (CAMP), a concurrent but separate planning effort initiated by the IWRB to address future water supply and demand issues in the lower Boise River basin over the next 50 years. The Treasure Valley CAMP process includes a series of technical studies, including a surface water storage assessment conducted during the Interim Feasibility Study, to characterize surface and ground water resources. The IWRB will consider surface water storage as well as many other strategies to meet future water demand.

In May 2009, the Corps and IWRB entered into an agreement to initiate the first, or interim phase, of the two-phased feasibility study. The interim feasibility phase will 1) evaluate and document existing conditions on the Boise River, 2) evaluate and update information about flood risk, 3) analyze surface water storage opportunities in the basin, and 4) develop a path forward to complete the feasibility study.

In June and July 2010, the Corps and IWRB conducted public information meetings to request feedback on the water resources problems and alternatives that the study should address and presented preliminary analyses. The *Public Information Meetings and Public Comment Summary* (September 2010) document summarizes the feedback received.

From October 2009 through August 2010, the study team conducted a surface water storage screening analysis. The analysis used information contained in the Bureau of Reclamation's (Reclamation) 2006 *Boise/Payette Water Storage Assessment Report*. The Corps screening evaluation scored sites for six criteria, including future water demand, flood risk reduction, hydropower potential, a relative cost index, and social and environmental effects. The three top-ranked water storage and flood risk reduction sites included (1) replacement of Arrowrock Dam, (2) construction of a new dam at the Alexander Flats site, and (3) construction of a new dam at the Twin Springs site. The 2010 *Water Storage Screening Analysis* document describes the screening criteria, the process used to score the surface water storage sites and the analysis results. The document can be downloaded from the study website.

CURRENT STATUS: In June 2011, the Corps received some funds to continue the Lower Boise River Interim Feasibility Study. The IWRB directed the Corps to conduct a preliminary analysis of the Arrowrock site. The purpose of the analysis was to

- Identify the most appropriate surface water storage concept for the Arrowrock site (i.e., raise the existing structure or construct a new facility downstream),
- Determine whether there were major engineering or geological constraints that would make a dam raise or a new downstream dam technically unfeasible or cost prohibitive, and
- Identify any significant issues that should be considered for future analyses.

The analysis relied on available data, including a review of historical documents related to the planning and construction of Arrowrock Dam, and geological records and maps. A field reconnaissance was conducted from Arrowrock Dam downstream. The Corps coordinated with Reclamation engineers and geologists. (Arrowrock Dam was constructed by and is operated by Reclamation.)

The dam raise concept assumed that Arrowrock Dam would be raised about 74 feet and provide about 300,000 acre-feet of additional storage. Two locations immediately downstream of Arrowrock Dam were identified for a potential new dam (Option 1 and 2, see figures 1 and 2). This concept assumed a 368-foot dam would be constructed at the upstream end of the Lucky Peak reservoir pool. The analysis recommended Option 1 over Option 2 because geologic conditions are more favorable and a dam would be less expensive to construct at the Option 1 location.

The preliminary analysis concluded that based on existing information and resources available during the analysis, raising Arrowrock Dam or building a new dam downstream are both technically feasible. Existing information did not identify geologic or engineering constraints that could discount either concept in favor of the other. The analysis identified a number of uncertainties and unknowns that add cost risks to planning, data collection and construction for either concept. This is typical at this planning stage. Many of these uncertainties would be addressed during future study and data collection efforts.

The report further recommends that if only one concept were pursued, the study should continue to examine raising Arrowrock Dam because there could be significant construction cost savings from the reduced quantity of material required compared to a new downstream dam. Further, study exploration is anticipated to be potentially more costly and logistically challenging at a downstream site located in the Lucky Peak reservoir pool than at the existing Arrowrock Dam site.



Boise River looking towards north shore, with Arrowrock Dam located on the right. Options 1 and 2 were identified as potential locations for a new dam. The Boise River flows from the right to left in the photograph.

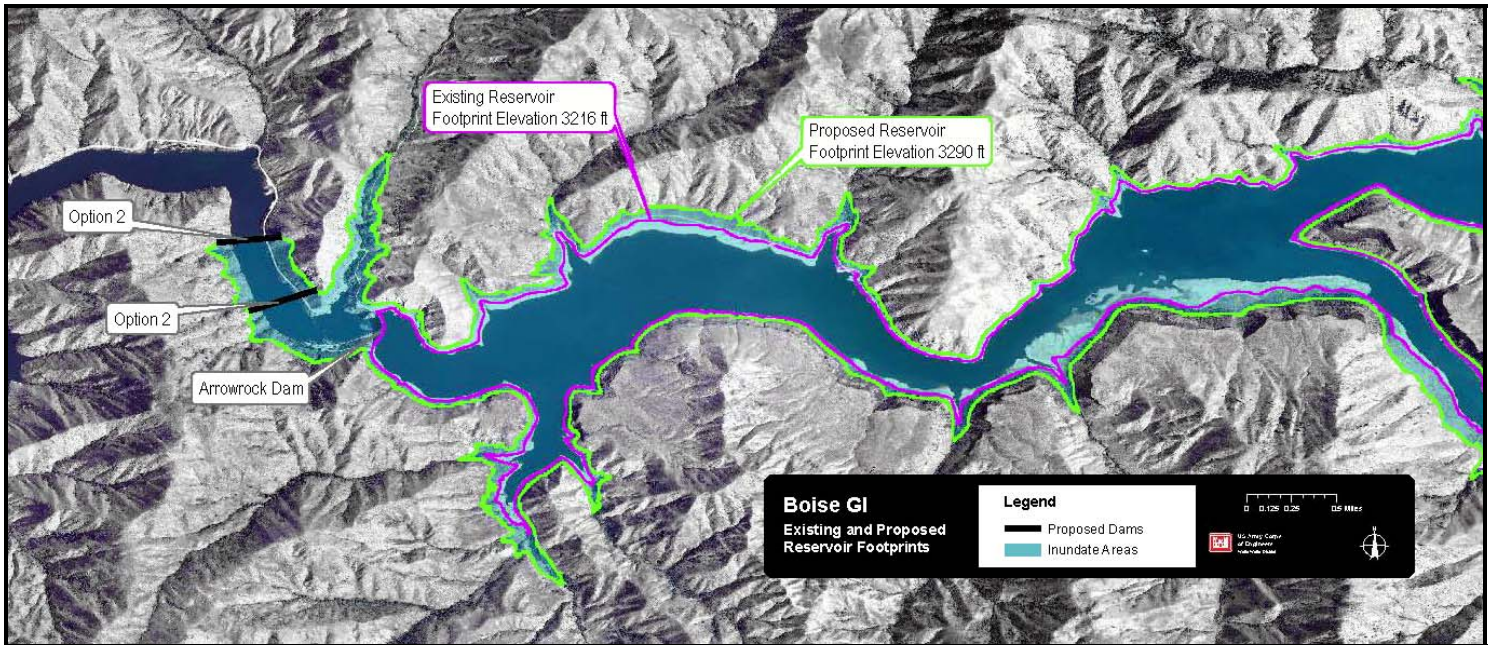
Recommended future analyses to evaluate this site would include, but would not be limited to

- A construction materials survey to determine types, quantity and location of required construction materials;
- Hydrologic and hydraulic analyses to determine how a larger reservoir would be operationally integrated and coordinated with the other Boise River basin storage facilities;
- Environmental surveys and analyses to determine presence and effects to fish, wildlife, plants and cultural resources; and
- Geologic field investigation.

The *Preliminary Analysis of the Arrowrock Site* provides more information about the preliminary analysis. The report can be downloaded from the study website.

NEXT STUDY STEPS: As funding becomes available, the following tasks to complete the interim feasibility study phase would occur:

- Engineering design and costs estimates would be developed, and hydrologic and hydraulic analyses completed for up to three surface water storage sites,
- An economic analysis of infrastructure and land use values in the floodplain to assess flood damages prevented;
- An inventory of current resource conditions would be completed,
- A 'future without project' description would be developed to forecast conditions if no project were pursued,
- An interim feasibility report will be prepared, documenting the information and analyses developed during the interim feasibility phase and the analyses that would be conducted to complete the feasibility study in a later phase, and
- A public meeting to present draft interim feasibility report recommendations and obtain public comment before finalizing the report.



Plan view showing conceptual reservoir footprints for expanded Arrowrock Reservoir capacity through a dam raise or a new dam constructed downstream (Options 1 or 2). The green line shows the increased reservoir boundary. Approximately 6.5 miles of additional river would be inundated with a dam raise.

U.S. ARMY CORPS OF ENGINEERS – WALLA WALLA DISTRICT – BOISE OUTREACH OFFICE

720 Park Boulevard, Suite 255; Boise, ID 83712

Boise.Office@usace.army.mil ~ 208-345-2065

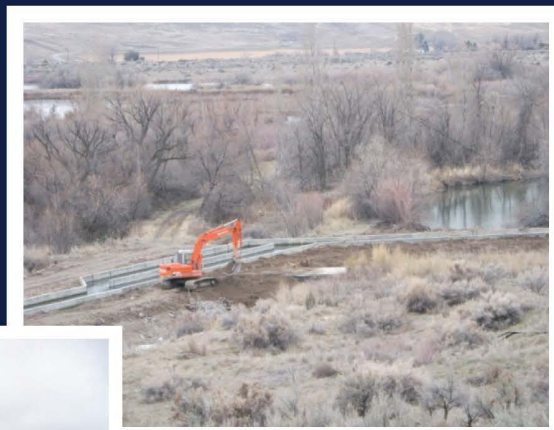
Updated December 2011

Eastern Snake Plain Aquifer (ESPA)

Comprehensive Aquifer Management Plan

Progress Report:

Overview and Accomplishments 2009 - 2011



Idaho Water Resource Board

January 2012

Cover Photo Credit (left to right): Construction of the Hazelton Butte ground water – surface water conversion project; managed recharge operations at the Shoshone recharge site; improvement of the spring-fed Big Bend Ditch to reduce its demand for spring flows; remote operated cloud seeding generator installed at Antelope Flat.

EASTERN SNAKE PLAIN AQUIFER MANAGEMENT PLAN

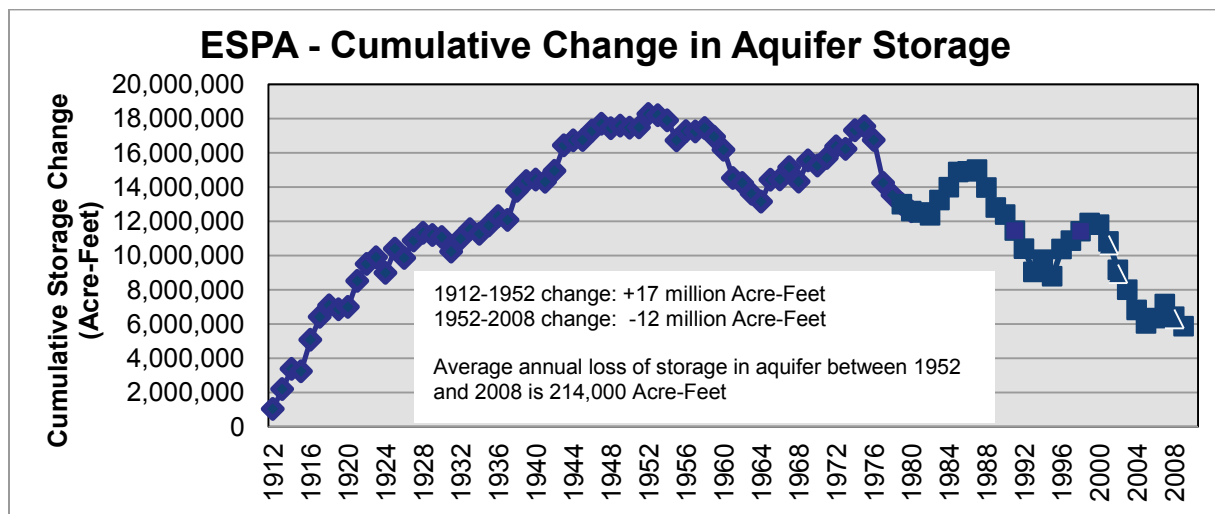
Progress Report: Overview and Accomplishments 2009-2011

INTRODUCTION AND BACKGROUND

Between 1912 and 1952, 17 million acre-feet of water were added to storage in the Eastern Snake Plain Aquifer (ESPA). This water was added to the aquifer primarily through the delivery and application of surface water to large acreages of land which resulted in leakage enhancing the aquifer. During this period, everything was working toward increasing aquifer storage. Since 1952 several changes have taken place that have resulted in declining storage in the aquifer. These include canal systems and irrigators becoming more efficient in the delivery and application of water, the development of ground water pumping for irrigation and other uses, and drought events. This decrease in aquifer storage resulted in declining water levels in

the ESPA, and declining spring flows from the ESPA, resulting in numerous water use conflicts that had the potential to disrupt the economy of the area. The ESPA region accounts for about 21% of Idaho's economic output.

After a three year-long process led by the Idaho Water Resource Board (IWRB) involving key leaders and stakeholders from the region, in 2009 the Legislature and Governor Otter enacted House Bill 264. This legislation approved the Eastern Snake Plain Comprehensive Aquifer Management Plan (CAMP) and sets out the goals for management of the ESPA.



ESPA MANAGEMENT ACTIONS AND PROGRESS

The ESPA CAMP lays out four main strategies. The strategies are designed to stabilize and manage the aquifer. The IWRB, together with program partners, has made significant progress toward the goal for each strategy. The goal and progress toward the goal of each strategy is shown.



Managed recharge water being delivered to the Shoshone Recharge Site.

| Strategy | Goal | Progress Since Plan Approval (early 2009) |
|--|---|--|
| Managed Recharge | 100,000 acre-feet/yr | Average of 101,363 acre-feet/yr since 2009 |
| Conversions: Ground Water to Surface Water | 100,000 acre-feet/yr | 6,380 acres converted, including a 1,738-acre project at Dietrich, with a 5,257 acre project under construction at Hazelton Butte, all together totaling a groundwater use reduction of about 14,000 acre-feet/ yr |
| Demand Reduction | 95,000 acre-feet/yr | 34,000 acre-feet through CREP, 26,000 acre-feet through structural improvements in the Thousand Springs area. |
| Weather Modification (cloud seeding) | 5-year pilot program with analysis of results | Idaho Power has installed 15 remote operated ground generator stations since 2009 (one more being installed for this coming winter), and operated the system, to supplement efforts being done by the High Country RC&D. |

Note: Other Recharge, 2009-2011 average: 17,472 ac-ft.

SUMMARY OF EXPENDITURES

The IWRB has been successful in capturing federal funds to help achieve management goals for the ESPA. In addition, significant contributions have been made by the Idaho Power Company and various water users. This has resulted in a significant leveraging of the State's investment to achieve a total expenditure of nearly \$14 million for aquifer management efforts.



Remote-operated cloud seeding generator located at Antelope Flat.

| Strategy | State (IWRB) | Federal | Idaho Power | Water Users | TOTALS |
|--|----------------------|----------------------|------------------|----------------------|-----------------------|
| Managed Recharge | \$752,000 | | | \$100,000 | \$852,000 |
| Conversions: Ground Water to Surface Water | \$2,000 | \$3.98 Million | | \$1.33 Million | \$5.3 Million |
| Demand Reduction | | \$5.71 Million | | \$487,000 | \$6.2 Million |
| Weather Modification (cloud Seeding) | | | \$600,000 | \$208,000 | \$808,000 |
| Aquifer Monitoring | \$667,000 | | | | \$667,000 |
| TOTALS | \$1.4 Million | \$9.7 Million | \$600,000 | \$2.1 Million | \$13.8 Million |

Leveraging of State's Investment: nearly 10-to-1

Ratio of water user investment to State investment: 60% / 40%

MOVING FORWARD

The IWRB has developed strategies for moving forward with conversions, demand reduction, and weather modification. The IWRB is currently working on its strategy for maximizing the benefits of managed recharge, and on a policy of cost-sharing managed recharge. The large amount of federal dollars that have been captured for this program has allowed the IWRB to defer use of most of the available state funds, while making significant progress toward the program goals. Although the use of these state funds has been deferred, there remains a large need for them as shown on the attached list of aquifer management projects that are in preliminary development, which totals \$50 million.



Reconstruction of the Hagerman Water Users spring water collection and delivery system to more efficiently use their spring flows and reduce demands on the ESPA.

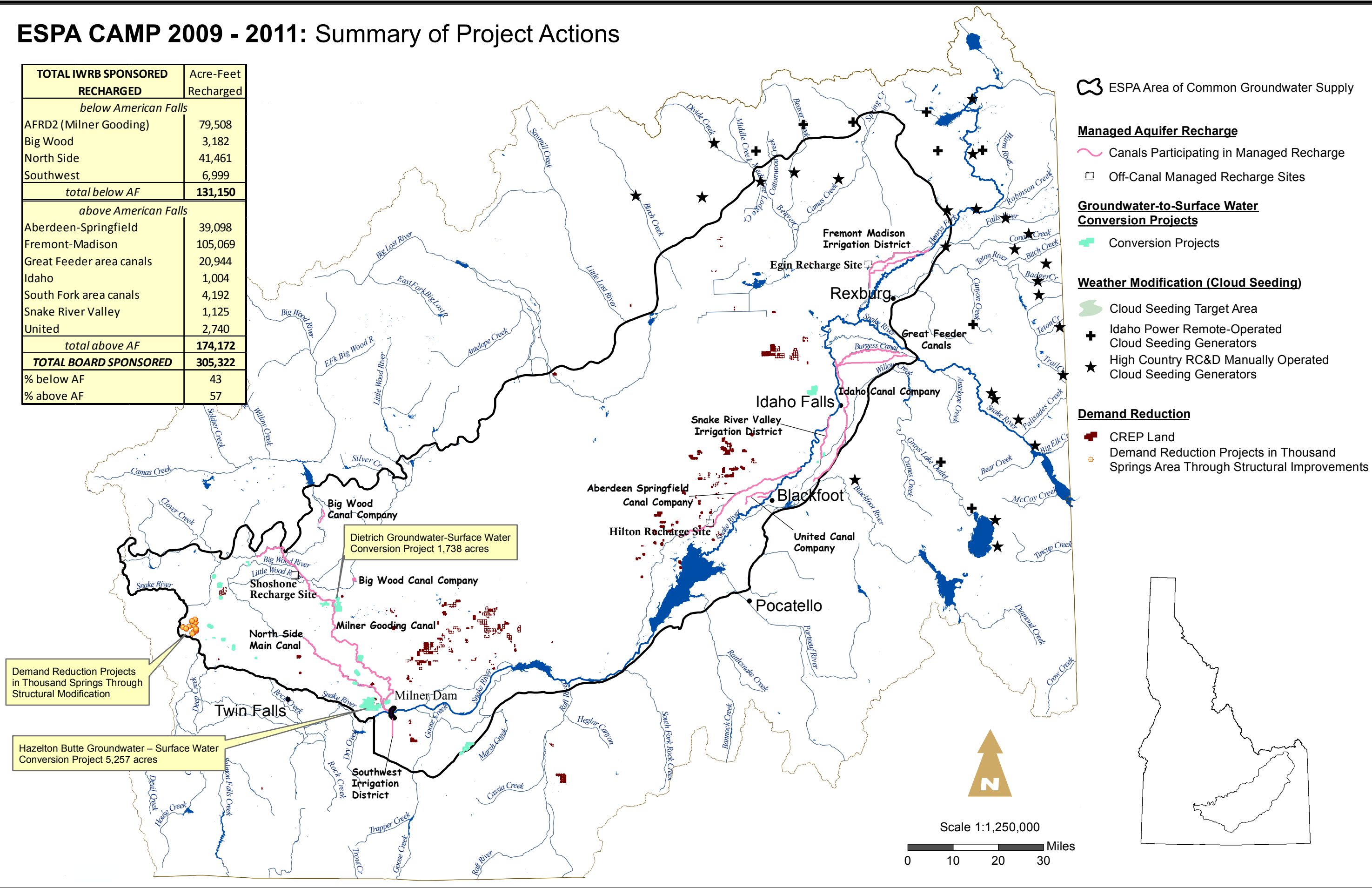
| Strategy | Water Board Policy |
|--|---|
| Managed Recharge | The IWRB is considering policy questions regarding priorities for location and how cost-sharing should occur. Utilize IWRB funds as a catalyst to build coalitions to undertake recharge infrastructure projects in high-priority locations. |
| Conversions: Ground Water to Surface Water | Maximize federal (NRCS) funds through 2013 for additional large-scale conversion projects. Utilize IWRB funds as a catalyst to build coalitions to undertake projects that can't be done through NRCS funds. Seek other federal funds as appropriate for projects. |
| Demand Reduction | Maximize federal (NRCS) funds through 2013 for structural demand reduction projects in Thousand Springs area. Seek other federal funds for these projects as appropriate. Due to high crop prices, de-emphasize efforts to increase CREP enrollment or other set-aside type programs. Through the IWRB financing programs support voluntary efforts by water users to buy-out water rights. |
| Weather Modification (cloud seeding) | Rely on Idaho Power to complete 5-year pilot program together with the High Country RC&D and evaluate results, after which a future course can be decided. |

Eastern Snake Plain Aquifer Management Projects in Preliminary Development

| Project | Estimated Cost | Status |
|--|----------------|--|
| 5-Year Managed Recharge Pilot Project | \$1.5 million | In operation. |
| A&B Irrigation District GW-to-SW partial conversion | \$20 million | In cooperation with A&B, Board is investigating various options for converting parts of A&B to surface water where there are critical ground water declines. |
| Magic Valley Storage Conservation Projects | \$24.5 million | Board, in cooperation with water user entities, has investigated several options for this project. |
| Walcott Recharge Site | \$1 million | Board is working to obtain rights-of-ways. Magic Valley Ground Water District has agreed- to cover all O&M costs. A&B irrigation District has agreed to provide in-kind resources toward construction. |
| Mile Post 31 Recharge Site | \$1 million | Board has obtained right-of way for project from BLM. AFRD2 has installed small headgate to site for pilot testing which was done in 2010 with promising results. |
| Egin Recharge Site | \$1.5 million | Board has committed funds for preliminary hydrologic and engineering work. |
| Richfield Recharge Injection Wells | \$500,000 | Big Wood Canal Company has drilled a pilot injection well to test winter-time recharge using water from the Wood Rivers. Pilot well was successfully used during 2010-2011 winter. |
| Expansion of Upper Snake cloud seeding into Wyoming tributaries to Snake (Salt & Greys Rivers) | Unknown | This is being investigated by Idaho Power and High Country RC&D. |

ESPA CAMP 2009 - 2011: Summary of Project Actions

| TOTAL IWRB SPONSORED RECHARGED | Acre-Feet Recharged |
|--------------------------------|---------------------|
| <i>below American Falls</i> | |
| AFRD2 (Milner Gooding) | 79,508 |
| Big Wood | 3,182 |
| North Side | 41,461 |
| Southwest | 6,999 |
| <i>total below AF</i> | 131,150 |
| <i>above American Falls</i> | |
| Aberdeen-Springfield | 39,098 |
| Fremont-Madison | 105,069 |
| Great Feeder area canals | 20,944 |
| Idaho | 1,004 |
| South Fork area canals | 4,192 |
| Snake River Valley | 1,125 |
| United | 2,740 |
| <i>total above AF</i> | 174,172 |
| TOTAL BOARD SPONSORED | 305,322 |
| % below AF | 43 |
| % above AF | 57 |



MEMO



To: Idaho Water Resource Board

From: Bill Quinn, Recharge Coordinator 

Subjects: 2011 Eastern Snake Plain Aquifer Recharge Summary
Expected Recharge Activities for 2012

Date: January 17, 2012

2011 Recharge Summary:

With abundant natural flows and storage water, the Board's 2011 Eastern Snake Plain managed recharge program was a great success. Nine canal companies and irrigation districts participated in the program and accomplished a total of 118,044 acre-feet of recharge as of December 31st. Wheeling fees paid to the companies/districts totaled \$282,124. Canal locations and respective recharge volumes are indicated on Figure 1, "2011 Managed ESPA Recharge".

There were two other recharge programs in the Eastern Snake Plain during 2011. A program sponsored by a group identified as the "Eastern Snake Plain Recharge Alliance" accounted for 29,378 acre-feet using storage water. There was also a program for mitigation purposes that accounted for 9,351 acre-feet of recharged storage water.

The total of all 2011 ESPA recharge is 156,773 acre-feet.

Individual canal volumes and wheeling fees paid by the Board are indicated on Table 1, "2011 ESPA Recharge Summary". Of the 2011 total (156,773 a-f), 50.5% was recharged above American Falls and 49.5% recharged below American Falls.

Figure 2, "2011 ESPA Managed Recharge Cumulative Volume, February 28-December 31", indicates total cumulative recharge volume in acre-feet. A graphical representation of all ESPA managed recharge between 2008 and 2011 is depicted in Figure 3.

Last year (2011), the Idaho Ground Water Appropriator's Association committed to donating \$80,000 toward defraying the costs of ESPA managed recharge. This contribution is attributable to 36,673 a-f of the 118,044 a-f of Board-sponsored recharge.

2012 Recharge:

With sufficient funding, possible funding partners, and adequate availability of water for recharge, Staff is optimistic that a successful Board-sponsored recharge program will continue in 2012.

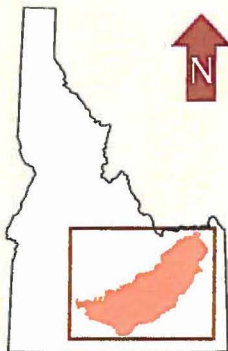
New contracts between the Board and canal companies are currently in preparation for 2012. At this time Staff expects at least the same companies / districts that participated in the 2011 program to be willing in 2012.

Idaho Water Resource Board Sponsored Managed ESPA Recharge

Recharge Canals

ESPA Boundary

0 10 20 30 Miles



Recharge Below American
Falls

77,614 acre feet

Recharge Above
American Falls

79,159 acre feet *

*Includes Other Recharge

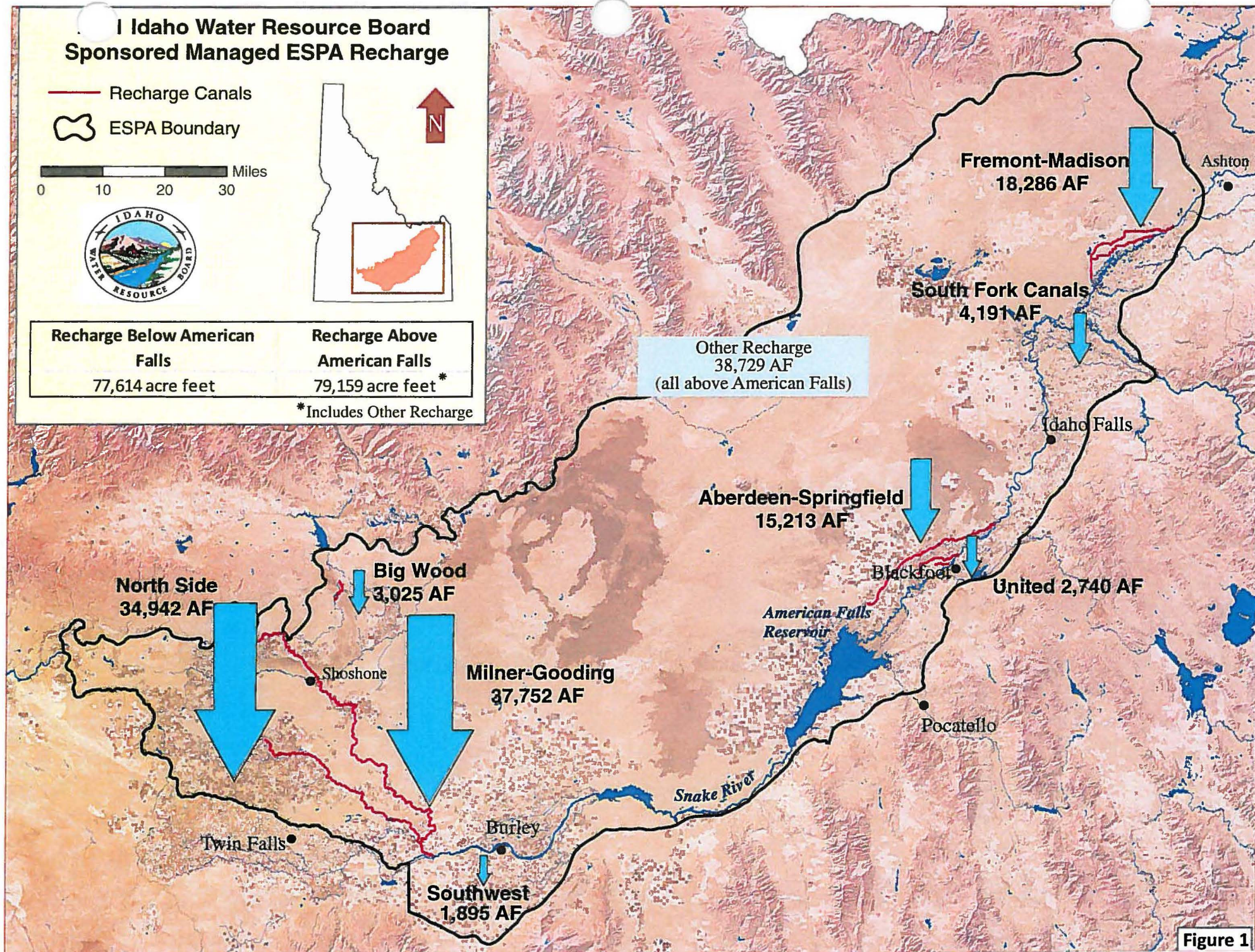


Figure 1

2011 ESPA MANAGED RECHARGE

| 2011 Early Season Recharge (all IWRB-sponsored) | | |
|--|---------------|-----------------|
| | acre-feet | cost to IWRB \$ |
| <i>below American Falls</i> | | |
| AFRD2 start 4-21, end 6-29 | 18,630 | 55,890 |
| Big Wood start 4-19, end 4-23 | 3,025 | 9,075 |
| Southwest start 2-28, end 4-12 | 1,394 | 4,182 |
| total below AF | 23,049 | 69,147 |
| <i>above American Falls</i> | | |
| Aberdeen-Springfield start 4-20, end 7-27 | 15,213 | 45,000 |
| Fremont-Madison start 3-10/6-22, end 4-15/7-24 | 18,286 | 46,535 |
| United start 4-6, end 4-26 | 2,740 | 5,000 |
| total above AF | 36,239 | 96,535 |
| TOTAL early season | 59,288 | 165,682 |
| % of total below AF | 39 | 42 |
| % of total above AF | 61 | 58 |

| 2011 Late Season Recharge | | |
|---|---------------|-----------------|
| | acre-feet | cost to IWRB \$ |
| <i>below American Falls (all IWRB sponsored)</i> | | |
| AFRD2 start 10-11 end 11-12 | 19,122 | 57,366 |
| North Side start 10-1 end 11-10 | 34,942 | 45,000 |
| Southwest start 10-15 end 10-26 | 501 | 1,503 |
| total Board sponsored (below AF) | 54,565 | 103,869 |
| <i>above American Falls (all non-IWRB-sponsored except So. Frk area canals)</i> | | |
| Aberdeen-Springfield start 9/22 end 10-26 | 9,351 | 0 |
| Fremont-Madison start 10-26 end 12-8 | 15,001 | 0 |
| Idaho start 10-21 end 11-7 | 1,556 | 0 |
| New Sweden start 10-17 end 11-10 | 4,971 | 0 |
| Peoples start 10-17 end 11-29 | 3,475 | 0 |
| Riverside start 10-25 end 11-28 | 690 | 0 |
| Snake River Valley start 10-18 end 11-14 | 2,537 | 0 |
| South Fork area canals * start 11-25 end 12-12 | 4,191 | 12,573 |
| United start 10-18 end 11-3 | 1,148 | 0 |
| total above AF | 42,920 | 12,573 |
| TOTAL late season | 97,485 | 116,442 |
| % of total below AF | 56 | 89 |
| % of total above AF | 44 | 11 |

* For reporting purposes South Fork area canals are Enterprise Canal Co. and Progressive I. D.

| 2011 Total Managed Recharge through December 31 | | |
|---|----------------|-----------------|
| | acre-feet | cost to IWRB \$ |
| <i>below American Falls</i> | | |
| AFRD2 (Board) | 37,752 | 113,256 |
| Big Wood (Board) | 3,025 | 9,075 |
| North Side (Board) | 34,942 | 45,000 |
| Southwest (Board) | 1,895 | 5,685 |
| total below American Falls | 77,614 | 173,016 |
| <i>above American Falls</i> | | |
| Aberdeen-Springfield (Board) | 15,213 | 45,000 |
| (other) | 9,351 | 0 |
| Fremont-Madison (Board) | 18,286 | 46,535 |
| (other) | 15,001 | 0 |
| Idaho (other) | 1,556 | 0 |
| New Sweden (other) | 4,971 | 0 |
| Peoples (other) | 3,475 | 0 |
| Riverside (other) | 690 | 0 |
| Snake River Valley (other) | 2,537 | 0 |
| South Fork area canals (Board) | 4,191 | 12,573 |
| United (Board) | 2,740 | 5,000 |
| (other) | 1,148 | 0 |
| total above American Falls | 79,159 | 109,108 |
| TOTAL 2011 | 156,773 | 282,124 |
| % of total below AF | 49.5 | 61 |
| % of total above AF | 50.5 | 39 |
| total Board | 118,044 | 282,124 |
| total other | 38,729 | 0 |
| % Board | 75 | 100 |
| % other | 25 | 0 |

"Board" is Idaho Water Resource Board-sponsored recharge
"other" is non Board recharge for other purposes

Table 1

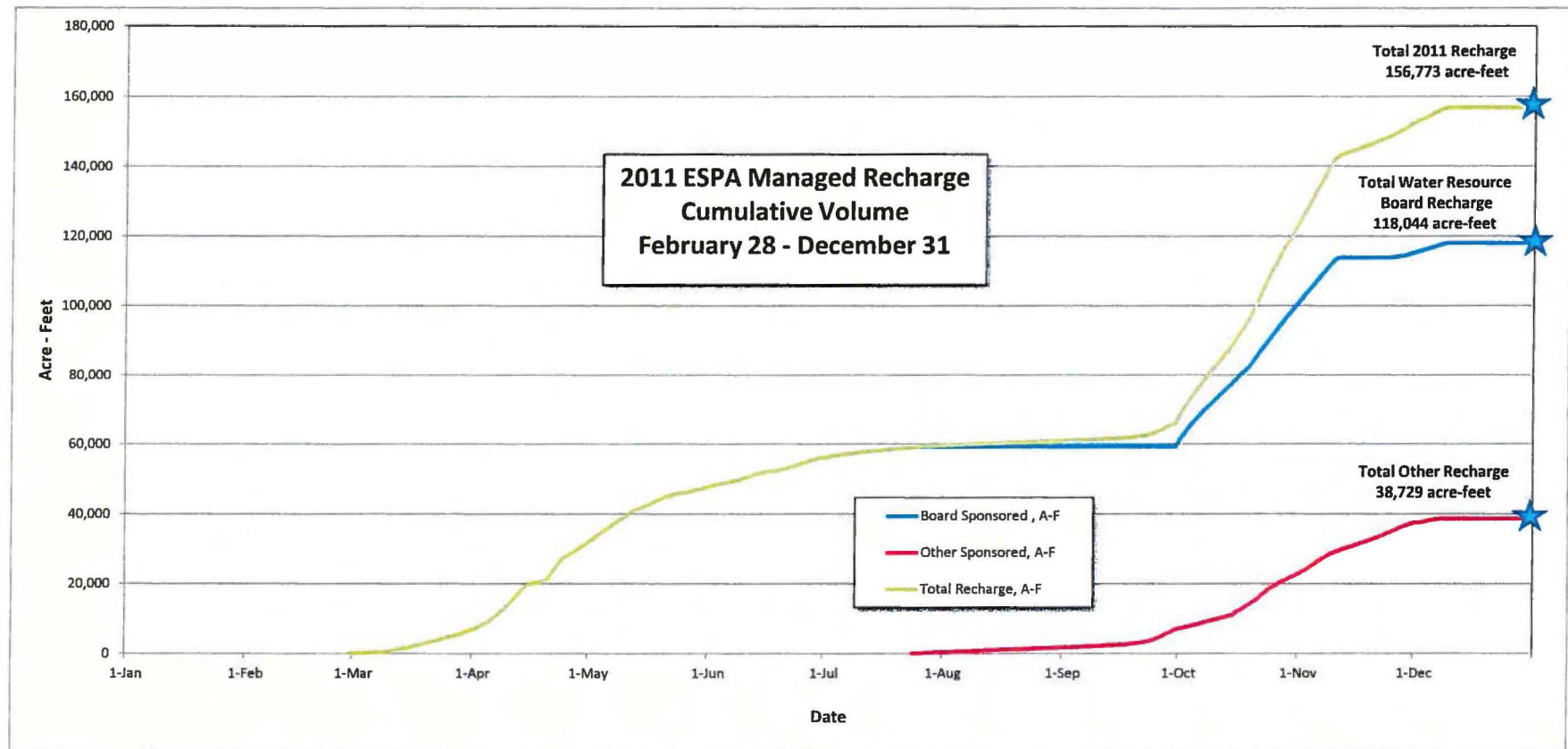


Figure 2

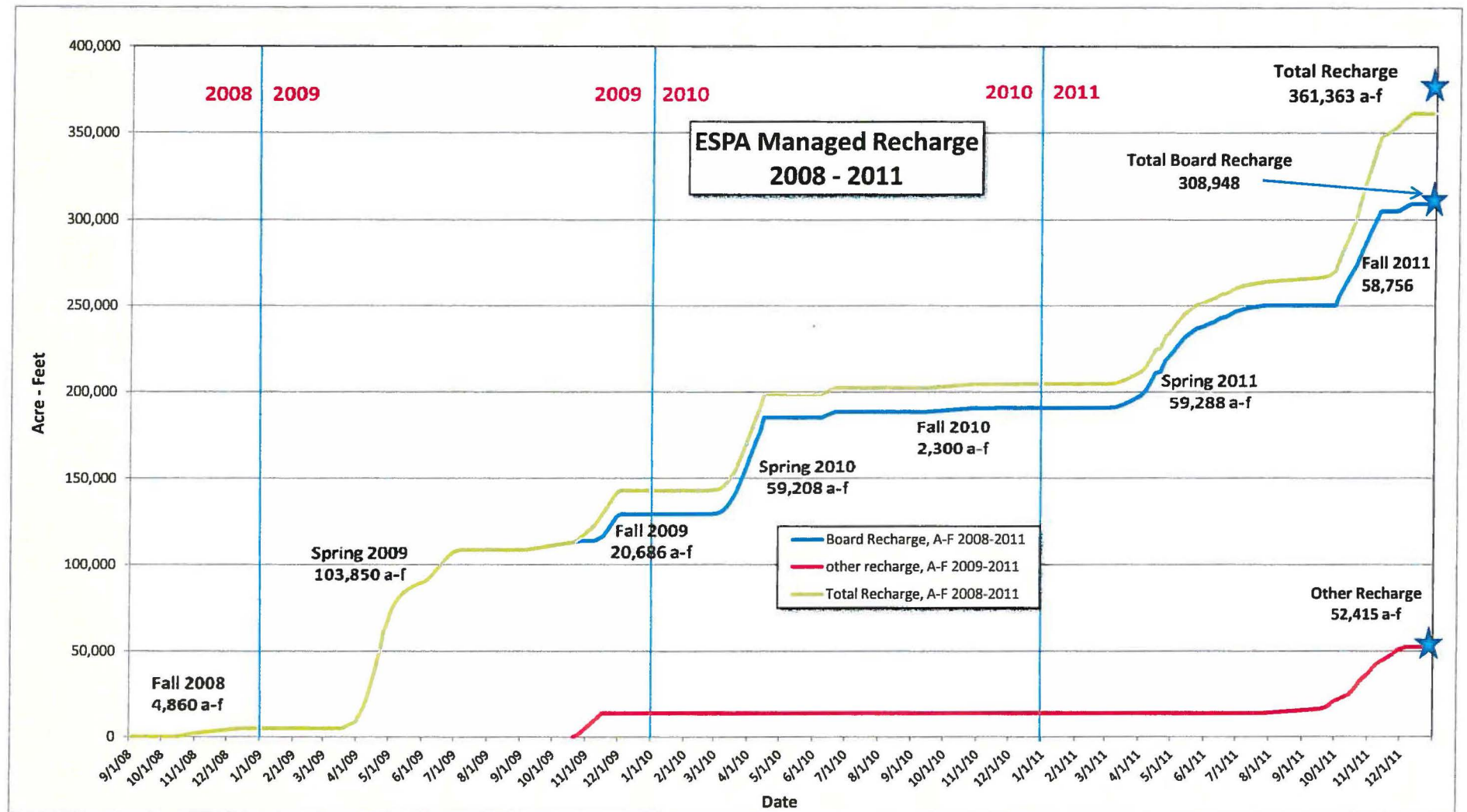


Figure 3