



# AGENDA

## IDAHO WATER RESOURCE BOARD MEETING NO. 7-13

May 17, 2013 at 8:00 am

Red Lion Hotel Canyon Springs  
Cedar Room/Juniper Room  
1357 Blue Lakes Boulevard North  
Twin Falls, ID 83301

**C.L. "Butch" Otter**  
Governor

**Roger W. Chase**  
Chairman  
Pocatello  
District 4

**Peter Van Der Meulen**  
Vice-Chairman  
Hailey  
At Large

**Bob Graham**  
Secretary  
Bonners Ferry  
District 1

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

**Vince Alberdi**  
Kimberly  
At Large

**Jeff Raybould**  
St. Anthony  
At Large

**Albert Barker**  
Boise  
District 2

**John "Bert" Stevenson**  
Rupert  
District 3

- .....
1. Roll Call
  2. Executive Session – Board will meet pursuant to Idaho Code § 67-2345 subsection (1)(f), for the purpose of communicating with legal counsel regarding legal ramifications of and legal options for pending litigation, or controversies not yet being litigated but imminently likely to be litigated. Executive Session is closed to the public.
  3. Agenda and Approval of Minutes [3-13](#), [4-13](#), [5-13](#), and [6-13](#)
  4. Committee Reports
    - a. [Upper Snake River Advisory Committee](#)
    - b. Streamflow Enhancement and Minimum Streamflow Committee
  5. Public Comment
  6. [Director's Report](#)
  7. [Legislative Update](#)
  8. Financial Update
    - a. [Status Update](#)
    - b. [Loan/Sunset Heights Water District](#)
  9. [Water Transactions](#)
  10. [Columbia River Treaty Update](#)
  11. [Planning Program Update](#)
  12. Pristine Springs
  13. [Storage Studies Update](#)
  14. [ESPA Management Update](#)
    - a. [Lake Walcott Recharge Project](#)
  15. Other Non-Action Items for Discussion
  16. 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 Department staff by email [Mandi.Pearson@idwr.idaho.gov](mailto:Mandi.Pearson@idwr.idaho.gov) or by phone at (208) 287-4800.

Work Session in Preparation for  
IWRB Meeting No. 7-13

May 16, 2013 at 8:00 am  
Red Lion Hotel Canyon Springs  
Cedar Room/Juniper Room  
1357 Blue Lakes Blvd North, Twin Falls, ID 83301

**AMENDED**  
WORK SESSION AGENDA

1. Water Transactions ([see materials under Board Meeting agenda item 9](#))
2. Loan/Sunset Heights Water District ([see materials under Board Meeting agenda item 8b](#))
3. [State Water Plan](#)
4. [Wood River Valley Groundwater Model Update](#)
5. Lake Walcott Recharge Project ([see materials under Board Meeting agenda item 14a](#))
6. Swan Falls Flows
7. [Role of Milner Dam in Snake River Management](#)

*Lunch*

1:00 pm: Field Trip to Milner Dam (*IWRB members and IDWR staff*)

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Wednesday, May 15, 2013

3:00 pm: Optional tour of Pristine Springs (*IWRB members*)

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 Mandi Pearson, Administrative Assistant, by email [mandi.pearson@idwr.idaho.gov](mailto:mandi.pearson@idwr.idaho.gov) or by phone at (208) 287-4800.



# IDAHO WATER RESOURCE BOARD

## MEETING MINUTES 3-13

**C.L. "Butch" Otter**  
Governor

Idaho Water Center  
Conference Room 602 C,D  
322 East Front St, Boise ID 83720

February 15, 2013

**Roger W. Chase**  
Chairman  
Pocatello  
District 4

**Peter Van Der Meulen**  
Vice-Chairman  
Hailey  
At Large

**Bob Graham**  
Secretary  
Bonners Ferry  
District 1

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

**Vince Alberdi**  
Kimberly  
At Large

**Jeff Raybould**  
St. Anthony  
At Large

**Albert Barker**  
Boise  
District 2

**John "Bert" Stevenson**  
Rupert  
District 3

Chairman Roger Chase called the meeting to order at approximately 7:30 am. There were seven Board members present. Mr. Albert Barker was absent during roll call but joined the meeting after the executive session. A quorum was present.

### Agenda Item No. 1, Roll Call

#### *Board Members Present*

Roger Chase, Vice-Chairman  
Vince Alberdi  
Jeff Raybould  
Bob Graham

Bert Stevenson  
Chuck Cuddy  
Peter Van Der Meulen

#### *Staff Members Present*

Brian Patton, Planning Bureau Chief  
Clive Strong, Deputy Attorney General  
Mandi Pearson, Administrative Assistant  
Helen Harrington, Planning Section Manager  
Michael Orr, Deputy Attorney General  
Garrick Baxter, Deputy Attorney General

Gary Spackman, Director  
Rich Rigby, Advisor  
Matt Weaver, Engineer

#### *Guests Present*

Lynn Tominaga, Idaho Ground Water Association  
Jon Bowling, Idaho Power Company

### Agenda Item No. 2, Executive Session

At approximately 7:30 am the Board resolved into Executive Session by unanimous consent pursuant to Idaho Code Section 67-2345 subsection (1)(f), for the purpose of communicating with legal counsel regarding legal ramifications of and legal options for pending litigation, or controversies not yet being litigated but imminently likely to be litigated. No action was taken by the Board during the Executive Session. The Board resolved out of Executive Session and into Regular Session at approximately 8:15 am.

### **Agenda Item No. 3, Milner Water Right**

Mr. Stevenson made a motion to direct counsel to resolve and implement the Board's Milner zero flow water right sub case. Mr. Raybould seconded the motion. Voice Vote. All in favor. Motion carried.

### **Agenda Item No. 4, Legislative Update** (*Garrick Baxter, Deputy Attorney General;* *Gary Spackman, Director*)

Mr. Baxter updated the Board on the status of House Bill 47. This legislation relating to Watermasters that provides when a Watermaster dies or resigns, authorizes the Department to work with the advisory committees of the water district to appoint a new Watermaster. He also updated the Board on legislation relating to 42-203B, which is regarding hydropower water rights. The Department proposed legislation that modified the language that sets forth the term condition put on a hydropower water right. This allows the hydropower water right to continue on unless the Director takes action on the individual water right. Mr. Baxter also noted legislation of interest to the Board that allows for an additional extension of time to establish proof of beneficial use. There was further discussion among the parties regarding this.

Director Spackman discussed the proposed legislation for well construction that would affect the rules adopted by the Board three years ago. There are three main components of the bill. The seal depth requirement would be reduced to 18 feet unless the Department requires a greater seal depth. The requirement of a 4-hour seal notice to the Department would be eliminated. The bill also proposes a new definition for artesian wells. There was further discussion among the parties regarding this legislation and Mr. Lynn Tominaga also addressed the Board on this topic.

Mr. Clive Strong discussed the State Water Plan with the Board. He discussed the concerns brought up by members of the House Committee of Resources and Conservation. There was discussion among the parties regarding this issue.

Director Spackman discussed the recharge legislation that is currently being drafted. The IWUA legislative committee is working with the Director on the draft language. The parties discussed the issues surrounding the legislation.

Director Spackman also updated the Board on the proposed Injection Well Rules.

### **Agenda Item No. 5, Adjourn**

Mr. Graham made a motion to Adjourn, and Mr. Alberdi seconded the motion. Voice Vote. All were in favor. Motion Carried.

The IWRB Meeting 3-13 adjourned at approximately 9:15 am.

Respectfully submitted this \_\_\_\_\_ day of May, 2013.

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Bob Graham, Secretary

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Mandi Pearson, Administrative Assistant II

Board Actions:

1. Mr. Stevenson made a motion to direct counsel to resolve and implement the Board's Milner zero flow water right sub case. Mr. Raybould seconded the motion. Voice Vote. All in favor. Motion carried.



# IDAHO WATER RESOURCE BOARD

## MEETING MINUTES 4-13

**C.L. "Butch" Otter**  
Governor

Idaho Water Center  
Conference Room 602 B, C  
322 East Front St, Boise ID 83720

March 6, 2013

**Roger W. Chase**  
Chairman  
Pocatello  
District 4

**Peter Van Der Meulen**  
Vice-Chairman  
Hailey  
At Large

**Bob Graham**  
Secretary  
Bonners Ferry  
District 1

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

**Vince Alberdi**  
Kimberly  
At Large

**Jeff Raybould**  
St. Anthony  
At Large

**Albert Barker**  
Boise  
District 2

**John "Bert" Stevenson**  
Rupert  
District 3

Chairman Roger Chase called the meeting to order at approximately 7:30 am. All Board members present.

### Agenda Item No. 1, Roll Call

#### *Board Members Present*

Roger Chase, Vice-Chairman  
Vince Alberdi  
Jeff Raybould  
Bob Graham

Bert Stevenson  
Chuck Cuddy  
Peter Van Der Meulen  
Albert Barker

#### *Staff Members Present*

Brian Patton, Planning Bureau Chief  
Clive Strong, Deputy Attorney General  
Mandi Pearson, Administrative Assistant  
Helen Harrington, Planning Section Manager

#### *Guests Present*

Jon Bowling, Idaho Power Company  
Walt Poole, Idaho Fish and Game  
Marie Kellner, Idaho Conservation League

### Agenda Item No. 2, Proposed Legislative Amendments to the State Water Plan

Mr. Patton updated the Board on HB247, the proposed amendments to the State Water Plan. Overall the themes within the proposed amendments are funding and staffing; emphasis on incidental recharge; and fishery, environment and ESA issues. The panel of legislators who introduced the bill also proposed to delete policies 2E Riparian Habitat and Wetlands and 3G Climate Variability.

Mr. Strong addressed the Board. He compared the proposed amendments and the adopted State Water Plan to the current State Water Plan that became effective in 1996, especially regarding instream flows. There was discussion among the parties regarding this comparison as well as communicating to the

House Committee members and the format for the committee hearing on March 7<sup>th</sup>.

**Agenda Item No. 3, Next Meeting and Adjourn**

Mr. Graham made a motion to Adjourn, and Mr. Raybould seconded the motion. Voice Vote. All were in favor. Motion Carried.

The IWRB Meeting 4-13 adjourned at approximately 8:00 am.

Respectfully submitted this \_\_\_\_\_ day of May, 2013.

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Bob Graham, Secretary

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Mandi Pearson, Administrative Assistant II

**Board Actions:**

No action was taken.



# IDAHO WATER RESOURCE BOARD

## MEETING MINUTES 5-13

**C.L. "Butch" Otter**  
Governor

Idaho Water Center  
Conference Room 602 B, C, D  
322 East Front St, Boise ID 83720

**Roger W. Chase**  
Chairman  
Pocatello  
District 4

March 21, 2013  
**Work Session**

**Peter Van Der Meulen**  
Vice-Chairman  
Hailey  
At Large

Vice-Chairman Peter Van Der Meulen called the meeting to order at approximately 8:00 am. Mr. Roger Chase was absent. All other Board members were present.

During the Work Session the following items were discussed: Weiser-Galloway Project by Cynthia Bridge-Clark, Nancy Glenn, Jeremy Giovando, and Bill Harrison; Water Supply Conditions by Liz Cresto; ESPA Recharge Modeling by Mat Weaver and Mike McVay; Cloud Seeding by Idaho Power Company; Pristine Springs by Brian Patton, Treasure Valley Aquifer Investigations by Craig Tesch, and Lewiston Area Ground Water Management Activities by Ken Neely. No action was taken by the Board during the Work Session.

**Bob Graham**  
Secretary  
Bonners Ferry  
District 1

March 22, 2013  
**IWRB Meeting**

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

Chairman Roger Chase called the meeting to order at approximately 7:30 am. All Board members were present.

### **Agenda Item No. 1, Roll Call**

**Vince Alberdi**  
Kimberly  
At Large

#### *Board Members Present*

**Jeff Raybould**  
St. Anthony  
At Large

Roger Chase, Chairman  
Peter Van Der Meulen, Vice Chairman  
Chuck Cuddy  
Bob Graham

Bert Stevenson  
Vince Alberdi  
Jeff Raybould  
Albert Barker

**Albert Barker**  
Boise  
District 2

#### *Staff Members Present*

**John "Bert" Stevenson**  
Rupert  
District 3

Brian Patton, Planning Bureau Chief  
Clive Strong, Deputy Attorney General  
Mandi Pearson, Administrative Assistant  
Garrick Baxter, Deputy Attorney General  
Harriet Hensley, Deputy Attorney General  
Monica Van Bussum, Water Resource Agent  
Neal Farmer, Special Projects Coordinator  
Helen Harrington, Planning Section Manager

Mat Weaver, Engineer Tech II  
Stuart VanGreuningen, Engineer  
Cynthia Bridge Clark, Engineer



### *Guests Present*

Walt Poole, Idaho Fish and Game	Dave Tuthill, Idaho Water Engineering
Hal Anderson, Idaho Water Engineering	Peter Anderson, Trout Unlimited
Dave Miles, Association of Idaho Cities	Jon Bowling, Idaho Power Company
Lynn Tominaga, Idaho Ground Water Association	John Simpson, Barker, Rosholt, & Simpson
Marie Kellner, Idaho Conservation League	Dan Temple, A&B Irrigation District
Dean Stevenson, Magic Valley Ground Water District	
Lynn Carlquist, Magic Valley Ground Water District	

### **Agenda Item No. 2, Executive Session**

At approximately 7:30 am the Board resolved into Executive Session by unanimous consent pursuant to Idaho Code Section 67-2345(1)(f), for the purpose of communicating with legal counsel regarding legal ramifications of and legal options for pending litigation, or controversies not yet being litigated but imminently likely to be litigated. No action was taken by the Board during the Executive Session. The Board resolved out of Executive Session and into Regular Session at approximately 8:30 am.

### **Agenda Item No. 3, Agenda and Approval of Minutes**

Mr. Raybould made a motion that minutes for meetings 9-12, 10-12, 1-13, and 2-13 be approved as printed. Mr. Cuddy seconded the motion. Voice Vote. All were in favor. Motion carried. Mr. Patton noted that several people who want to speak during the Public Comment period were delayed due to a road closure. Chairman Chase stated the Board would accommodate them when they arrived at the meeting.

### **Agenda Item No. 4, Committee Appointments and Scheduling**

Mr. Stevenson made a motion to approve the committee appointments as written. Mr. Barker seconded the motion. Voice Vote. All were in favor. Motion carried. Mr. Patton discussed a schedule for committee meetings, specifically holding committee meetings during the month in between Board meetings. There was discussion among the Board members regarding this and general consent.

### **Agenda Item No. 5, Committee Reports**

#### **a. Upper Snake Advisory Committee** (*Mathew Weaver, Staff*)

Mr. Weaver updated the Board on the last committee meeting, which was held on March 7, 2013. At that meeting, Mike Beus, Lyle Swank, and Jon Bowling gave updates on operations and water supply. Other topics discussed were the water supply outlook for the upcoming year and coordination of natural flow diversions at Milner Dam. Topics that will be addressed later in the year include the Columbia River Treaty matter and recharge issues. The next meeting will be April 11, 2013.

#### **b. Water Supply Bank**

Mr. Patton deferred this agenda item to be discussed during Agenda Item No. 11, Water Supply Bank.

### **Agenda Item No. 6, Public Comment**

Chairman Chase opened the meeting to public comment. Mr. Barker requested that Jon Bowling would give the Board an update on his projections for the Swan Falls minimum flows for 2013. Mr.

Bowling stated that the forecast indicated about 4000 cfs, and that they are tracking this closely. There was discussion among the parties regarding past occurrences of low minimum flows and operations during these times.

Chairman Chase noted that those who wanted to speak about recharge legislation would be given an opportunity to address the Board during Agenda Item No. 8, Legislative Update.

Mr. Dan Temple updated the Board on the Lake Walcott recharge project. He discussed water availability for recharge, the cost of the project, the site potential, and the next steps to take. There was discussion among the parties regarding clearance and permitting, pump design, and a cost estimate. Mr. Temple also discussed another project, the Unit A conversion, that A&B Irrigation District is working on. It is going through the NRCS approval stages right now, with AWEF funding.

Mr. Dean Stevenson expanded on the recharge project at Lake Walcott. He discussed the engineering needed to work with Fish and Wildlife Service and the cost estimates. There was discussion regarding which entities would help to pay for the project, water availability, and permits and coordination with Fish and Wildlife Service.

### **Agenda Item No. 7, Director's Report**

Mr. Patton, on behalf of Director Spackman, updated the Board on the proposed well construction legislation that would repeal sections of the well drilling rules. He also updated the Board on the basin-wide issue decision and low snow accumulation. There was discussion among the parties regarding the water supply outlook.

### **Agenda Item No. 8, Legislative Update** (*Garrick Baxter, Staff*)

Mr. Garrick Baxter provided an overview of recent legislation. He discussed the status of House Bill 38, the State Water Plan; House Bill 47, Watermaster Appointments; House Bill 48, Injection Well Bonds; House Bill 49, Injection Well Permit Fees; House Bill 50, Hydropower Water Rights; House Bill 131, Extensions of Time for Permit Holders; House Bill 144, Well Construction Standard; House Bill 174, Additional Appropriations; House Bill 247, Revised State Water Plan; House Bill 270, IDWR Appropriation; House Bill 277, Well Construction Standards; and Senate Bill 1155, Watermaster Compensation. Mr. Baxter also discussed the rules on minimum standards for construction of Injection Wells, which were approved and will become effective upon the end of the legislative session. Mr. Baxter provided an overview of draft legislation that would allow for the Board to develop rules relating to groundwater recharge and to develop an aquifer credit tracking system associated with it. The Idaho Water User's Association created a subcommittee to review and work on the legislation with the Director and other interested individuals. A key point in the current draft is authorization for the Board to promulgate rules related to groundwater recharge throughout the state, but would specifically require that the Board promulgate rules regarding the ESPA, and that the rules would be consistent with the goals of the ESPA CAMP and the State Water Plan. The legislation authorizes the Board to promulgate rules to develop an aquifer credit program. The current draft also authorizes the Director to subordinate future groundwater recharge rights to future Board groundwater recharge rights. There was discussion among the parties regarding the timing of the proposed legislation in regards to the current legislative session. Chairman Chase opened up the discussion for public comment.

Mr. Dave Miles, representing Association of Idaho Cities, addressed the Board. He expressed uncertainty and specific issues throughout the multiple drafts of the draft legislation.

Mr. Dave Tuthill addressed the Board regarding the draft legislation. He discussed the amount of water in the state, the primary drivers of water projects in Idaho, public and private partnerships, the role of recharge, and the recent history of changes to managed ground water recharge legislation. He stated that this legislation is not ready to be submitted during the current legislative session, and that more discussion needs to occur. There was discussion among the parties regarding the timing of the legislation and the "subordination" language.

Mr. Lynn Tominaga addressed the Board regarding the draft legislation. He discussed the mitigation plan and aquifer credits and the incidental recharge issues that came up during the legislative review of the State Water Plan.

Mr. John Simpson addressed the Board regarding the draft legislation. He discussed the history of recharge considerations during CAMP development, as well as the discussions currently being held regarding the draft legislation. He discussed the importance that water users and the Board work together to recover the aquifer. There was discussion among the parties regarding the timing of the draft legislation and the critical need for adequate funding.

Mr. Baxter wrapped up the discussion at the request of the Chairman. He briefly discussed the subordination issue, and reported on the discussions happening regarding the draft legislation.

### **Agenda Item No. 9, Financial Update**

#### **a. Status Update** *(Brian Patton, Staff)*

As of February 1, the Board had approximately \$18.6 million in funds committed but not yet disbursed, approximately \$15.4 million in loan principle outstanding, and a total uncommitted balance of approximately \$4.7 million. The 20-Mile Creek Water Association has repaid its loan in full and ahead of schedule.

#### **b. Harvest Valley HOA Loan** *(Stuart VanGreuningen, Staff)*

Mr. VanGreuningen discussed the loan application from Harvest Valley Home Owners Association. They are applying for a Water Project Loan in the amount of \$4,500.00 to replace their irrigation pump. Staff recommended approval of the loan for the Pump Replacement Project in the amount of \$4,500 at 6% with a 5-year term. There was discussion among the parties regarding the ability of the applicant to pay for the project and reserve funds.

Mr. Raybould moved to approve the resolution to make a funding commitment in the matter of Harvest Valley Home Owner's Association. Mr. Cuddy seconded the motion.

**Roll Call Vote:** Mr. Cuddy: Aye; Mr. Alberdi: Aye; Mr. Stevenson: Aye; Mr. Raybould: Aye; Mr. Van Der Meulen: Aye; Mr. Graham: Aye; Mr. Barker: Aye; Chairman Chase: Aye. Motion carried.

There was discussion among the parties regarding the format for reviewing loan applications.

### **Agenda Item No. 10, Rental Pools**

#### **a. Rental Pools 2012 Annual Summary** *(Helen Harrington, Staff)*

Ms. Harrington provided a summary on 2012 rental pool operations. Rental pools facilitate the optimum use of water and provide revenue to the Board. Revenue from the rental pools provided a total of \$400,850.64 to the Board in 2012. The rental and lease activity in these pools demonstrate the strong use of the rental pools. Over 99% of the available leased water was rented.

#### **b. Water District 01 Rental Pool Procedures** *(Helen Harrington, Staff)*

Ms. Harrington reported on the Water District 01 Rental Pool Procedures. The Committee of Nine recently adopted changes to the procedures. Key areas which are reflected in the revisions are: administrative fee increase from \$0.80 to \$1.05, rental price increases for tiers 1 through 4, and additional rules regarding Equitable Adjustment water. Staff recommended approval of the proposed changes.

Mr. Raybould moved to adopt the resolution approving the Water District 01 Rental Pool Procedures. Mr. Alberdi seconded the motion. Voice Vote. All were in favor. Motion carried.

### **Agenda Item No. 11, Water Supply Bank** *(Brian Patton, Staff; Monica Van Bussum, Staff)*

Mr. Patton discussed the Water Supply Bank (WSB) funds routing process. Historically, all funds received from the Water Supply Bank rentals have been deposited into the Department's "Fee

Account.” With the rapid growth of the WSB, the payments back to the water right owners were delayed as the Fee Account spending authority limit was reached. The proposed solution to this problem is to deposit the Department share into the Fee Account, while the owner’s share would be deposited into the IWRB’s Revolving Development Account until payment to the water right owner is made. Since the IWRB has continuous spending authority for the Revolving Development Account, the spending authority limit would no longer be an issue. On March 20, 2013 the IWRB Water Supply Bank Committee examined the issue and recommended implementing this change. Mr. Raybould suggested that the percentages be taken out of the resolution in case of future changes to the percentages. There was discussion among the parties regarding the Board’s involvement in approving the applications.

Mr. Alberdi moved to approve the resolution in the matter of the Water Supply Bank with the suggested changes. Mr. Stevenson seconded the motion.

Roll Call Vote: Mr. Cuddy: Aye; Mr. Alberdi: Aye; Mr. Stevenson: Aye; Mr. Raybould: Aye; Mr. Van Der Meulen: Aye; Mr. Graham: Aye; Mr. Barker: Aye; Chairman Chase: Aye. Motion carried.

Ms. Van Bussum provided a synopsis of the Water Supply Bank Committee meeting. Interest in activity in the WSB has greatly increased in the last couple of years. Due to this, processing applications has greater complexity. Ms. Van Bussum suggested a number of issues for the Board to consider. Ms. Van Bussum noted that she would no longer be working as the Water Supply Coordinator and thanked the Board for the experience she has had working for them. Mr. Alberdi, along with Chairman Chase, expressed appreciation for Ms. Van Bussum’s dedication, hard work, and sincerity. There was discussion among the parties regarding some of the issues the Water Supply Bank Committee will be addressing.

**Agenda Item No. 12, Pristine Springs** (*Brian Patton, Staff*)

Mr. Patton discussed the Blue Lakes Pipeline Replacement issue. Mr. Lynn Carlquist of the North Snake Ground Water District updated the Board on the status of the project. This pipeline is the only source of water to supply the Blue Lakes facility and the bulk of the fresh water supply to the Pristine Springs facility. The cost is estimated to be \$1.5 million dollars. He discussed the pipe that was suggested by the engineering firm as well as the next steps for the project. There was discussion among the parties regarding the development of a legal document or easement that will allow the Board’s water through the pipeline. There was further discussion among the parties regarding the Board’s water right, the adequacy of the proposed replacement pipe, what is included in the cost estimate, and the Board’s participation in the pipeline replacement.

Mr. Cuddy made a motion to appoint a subcommittee to observe and review the operation and to make a recommendation to the Board regarding the Board’s participation in the project. Mr. Barker seconded the motion. Mr. Stevenson abstained from voting. There was some discussion about the committee’s role and purpose, the need for a timely decision by the Board, and the adequacy of the proposed replacement pipe. Voice Vote. All were in favor. Motion passed.

**Agenda Item No. 13, Storage Studies Update** (*Cynthia Bridge Clark, Staff*)

Ms. Bridge Clark provided a status report on the Weiser-Galloway Project. She discussed the preliminary results of the geologic investigation. Some of the remaining tasks include additional soil sampling, final evaluation of the rock mechanics and final cost estimates. The final report is expected by the end of the federal fiscal year. The Operational Analysis is expected to be completed by spring 2014. She also provided a status report on the Lower Boise River Feasibility Study. The US Army Corps of Engineers (Corps) and the Department are moving through the Corps’ new Planning Modernization Initiative. In December, a four-day planning charette was held and a list of alternatives that might be studied further was developed. Recently, the alternatives have been refined significantly. The Corps is coordinating with management at Headquarters in Washington DC to obtain required approval of the project objectives and alternatives. The next step in the Corps’ process is to coordinate with state and local agencies. The earliest that this re-scoping process will be completed is by September 2013.

Initiation of the study will be subject to availability of federal funding. Ms. Clark provided a status report on the Henrys Fork Basin Study. The US Bureau of Reclamation (Reclamation) finalized an interim report documenting the process of identifying and screening water management alternatives in the Henrys Fork basin. Reclamation has initiated the appraisal analysis of the short list of alternatives beginning with technical issues specific to each alternative and a refined analysis of the water available for storage. Completion is scheduled for October 2013.

**Agenda Item No. 14, ESPA Management Update** (*Mat Weaver, Staff; Neal Farmer, Staff*)

Mr. Weaver provided an update on management activities in the ESPA. This is the last year of AWEF funding. The NRCS has received applications for five groundwater to surface water conversion projects for AWEF consideration. Applications for three water savings projects have been submitted to the NRCS for AWEF consideration. An End Gun Removal practice has been added to the AWEF program for 2013. The Department will be required to conduct water right review analysis of all applications similar to the requirement associated with the Conservation Reservation Enhancement Program. Mr. Weaver also provided an update on current recharge activities. Department staff continue to coordinate and move forward on the permitting of the Board's suite of water right applications from 1998 for managed aquifer recharge. A pre-hearing conference will be held in May. The construction at the Mile Post 31 recharge site is close to being completed.

Mr. Farmer reported to the Board on spring recharge activities. Due to a lack of water supply, recharge will be limited this year unless weather conditions change. A number of contracts are in place with canal companies and irrigation districts throughout the State. There was discussion among the parties regarding long-term contracts. Northside Canal Company and Milner-Gooding Canal Company currently have construction projects and will not be able to complete any recharge this spring. Mr. Farmer provided a calendar of spring recharge activities. There was further discussion among the parties regarding recharge efforts.

**Agenda Item No. 15, Planning Programs Update** (*Helen Harrington, Staff*)

Ms. Harrington described current planning activities. Rathdrum Prairie Comprehensive Aquifer Management Plan implementation activities will be ramping up this spring with an advisory committee meeting scheduled for March 29, 2013. Ms. Harrington discussed the topics to be addressed at the meeting. The Treasure Valley Comprehensive Aquifer Management Plan has been referred to the IWRB Water Resource Planning Committee for reconsideration of the public comments. The IDWR Hydrology section is moving forward with developing a groundwater flow model in the Wood River Valley in partnership with the United States Geological Survey. This project is anticipated to be completed in late 2015. The Idaho Comprehensive State Water Plan was sent from the House Resource and Conservation Committee to the Idaho House with a do-pass recommendation. It was then sent back to the Committee on March 18, 2013 and will remain there until the end of the legislative session. Due to a constitutional time limit, the State Water Plan is now effective. It is anticipated that an IWRB committee will review concerns and considerations raised by some House committee members during the discussions with legislature. There was discussion among the parties regarding this review. Ms. Harrington discussed the sustainability policy that has been referred to the Water Resource Planning committee.

**Agenda Item No. 16, IWRB Northern Idaho Adjudication Activity** (*Helen Harrington, Staff*)

Phase 1 of the Northern Idaho Adjudication (NIA) was commenced on November 12, 2008. The Board holds six water licenses for minimum stream flows in Phase 1. The Governor holds a water right for lake level in Phase 1, which staff has been assisting in preparing claims for. In coordination with IDWR NIA staff, the required claims were reviewed and a schedule for filing was developed which identified the fiscal year in which the claims would be filed. Claims have been filed for five of the six IWRB rights during Fiscal Year 2013. The remaining claims will be filed in the upcoming fiscal year. There was further discussion among the parties regarding the deadlines for federal filing claims.

### **Agenda Item No. 17, Other Non-Action Items for Discussion**

There was discussion regarding dinners to be held in May and July for Mr. Leonard Beck and former Chairman Terry Uhling.

### **Agenda Item No. 18, Next Meeting and Adjourn**

The next regularly scheduled meeting is set for May 16-17, 2013 in Twin Falls. Mr. Raybould made a motion to Adjourn, and Mr. Van Der Meulen seconded the motion. Voice Vote. All were in favor. Motion Carried.

The IWRB Meeting 5-13 adjourned at approximately 12:30 pm.

Respectfully submitted this \_\_\_\_\_ day of May, 2013.

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Bob Graham, Secretary

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Mandi Pearson, Administrative Assistant II

### **Board Actions:**

1. Mr. Raybould made a motion that minutes for meetings 9-12, 10-12, 1-13, and 2-13 be approved as printed. Mr. Cuddy seconded the motion. Voice Vote. All were in favor. Motion carried.
2. Mr. Stevenson made a motion to approve the committee appointments as written. Mr. Barker seconded the motion. Voice Vote. All were in favor. Motion carried.
3. Mr. Raybould moved to approve the resolution to make a funding commitment in the matter of Harvest Valley Home Owner's Association. Mr. Cuddy seconded the motion. Roll Call Vote. All were in favor. Motion carried.
4. Mr. Raybould moved to adopt the resolution approving the Water District 01 Rental Pool Procedures. Mr. Alberdi seconded the motion. Voice Vote. All were in favor. Motion carried.
5. Mr. Alberdi moved to approve the resolution in the matter of the Water Supply Bank with the suggested changes. Mr. Stevenson seconded the motion. Roll Call Vote. All were in favor. Motion carried.
6. Mr. Cuddy made a motion to appoint a subcommittee to observe and review the operation and to make a recommendation to the Board regarding the Board's participation in the project. Mr. Barker seconded the motion. Mr. Stevenson abstained from voting. Voice Vote. All were in favor. Motion passed.



# IDAHO WATER RESOURCE BOARD

## MEETING MINUTES 6-13

**C.L. "Butch" Otter**  
Governor

Idaho Water Center  
Director's Conference Room 648A  
322 East Front St, Boise ID 83720

April 24, 2013

**Roger W. Chase**  
Chairman  
Pocatello  
District 4

**Peter Van Der Meulen**  
Vice-Chairman  
Hailey  
At Large

**Bob Graham**  
Secretary  
Bonners Ferry  
District 1

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

**Vince Alberdi**  
Kimberly  
At Large

**Jeff Raybould**  
St. Anthony  
At Large

**Albert Barker**  
Boise  
District 2

**John "Bert" Stevenson**  
Rupert  
District 3

Chairman Roger Chase called the meeting to order at approximately 7:30 am. There were eight Board members present. A quorum was present.

### Agenda Item No. 1, Roll Call

#### *Board Members Present*

Roger Chase, Chairman  
Vince Alberdi  
Jeff Raybould  
Bob Graham

Bert Stevenson  
Chuck Cuddy  
Peter Van Der Meulen  
Albert Barker

#### *Staff Members Present*

Brian Patton, Planning Bureau Chief  
Mandi Pearson, Administrative Assistant  
Helen Harrington, Planning Section Manager

### Agenda Item No. 2, Blue Lakes/Pristine Springs Pipeline

Mr. Brian Patton discussed the Blue Lakes Pipeline. The ground water districts and other parties who own the Blue Lakes Trout Farm requested that the Board consider the level of its participation in rebuilding the pipeline that delivers water to both Blue Lakes Trout Farm and the Board's Pristine Springs project. At the March 22, 2013 IWRB meeting, the Board appointed a sub-committee of Vince Alberdi and Pete Van Der Meulen to negotiate with the owners on behalf of the Board and provide a recommendation to the Board. About ten percent of the water delivered through the pipeline goes directly to Pristine Springs, and the remainder goes to the Blue Lakes Trout Farm. The pipeline has deteriorated and needs to be replaced. The estimated cost is approximately \$1.6 million.

The sub-committee recommended that the IWRB pay for 10% of the project cost, which is consistent with the approximate water deliveries through the pipeline. The sub-committee also recommended that the Board provide a loan of up to \$1.5 million to finance the balance of project costs, with a 5-year term at 4%.

Mr. Patton asked the sub-committee members if they would like to speak. Mr. Alberdi stated his agreement to the recommendation and proposed resolution. He asked if the Board will be protected by this agreement, and if the owners will maintain the pipeline so that Pristine Springs will continue to get water delivered. Mr. Van Der Meulen expressed his agreement with Mr. Alberdi's remarks. Mr. Patton stated that the issues discussed will be written in the agreement. Mr. Raybould also expressed agreement with Mr. Alberdi's remarks that the agreement needs to ensure the continued delivery of water to Pristine Springs. There was discussion among the parties to edit the language in the resolution to state that the Pristine Springs Project is entitled now and in the future to receive water delivered through the pipeline.

Mr. Barker made a motion to adopt the resolution to make a funding commitment in the matter of the Pristine Springs Project and the Blue Lakes Pipeline with the suggested changes. Mr. Raybould seconded the motion. Mr. Stevenson requested to abstain from voting because he is a member of the groundwater district.

Roll Call Vote: Mr. Cuddy: Aye; Mr. Alberdi: Aye; Mr. Raybould: Aye; Mr. Van Der Meulen: Aye; Mr. Graham: Aye; Mr. Barker: Aye; Chairman Chase: Aye. Motion passed.

### **Agenda Item No. 5, Adjourn**

The IWRB Meeting 6-13 adjourned at approximately 7:45 am.

Respectfully submitted this \_\_\_\_\_ day of May, 2013.

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Bob Graham, Secretary

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Mandi Pearson, Administrative Assistant II

### **Board Actions:**

1. Mr. Barker made a motion to adopt the resolution to make a funding commitment in the matter of the Pristine Springs Project and the Blue Lakes Pipeline with the suggested changes. Mr. Raybould seconded the motion. Mr. Stevenson requested to abstain from voting because he is a member of the groundwater district. Roll Call Vote. Motion passed.





# MEMO

**To:** Idaho Water Resource Board  
**From:** Brian W. Patton  
**Subject:** Water Resource Projects Funding Program Status Report  
**Date:** May 5, 2013

As of **April 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.

**NOTE: This does not include \$1.5M loan for Blue Lakes Pipeline authorized on April 24, 2013.**

*Revolving Development Account (main fund)*

Committed but not disbursed	
Loans for water projects	\$5,054,276
Water storage studies	1,579,783
Total committed but not disbursed	6,634,059
Loan principal outstanding	7,637,702
Uncommitted balance	2,770,913
Estimated revenues next 12 months	2,300,000
Commitments from revenues next 12 months	0
Estimated uncommitted funds over next 12 months	5,070,913

*Rev. Dev. Acct. ESPA Sub-Account*

Committed but not disbursed	
CREP	2,419,581
Aquifer recharge	350,000
Bell Rapids	361,620
Palisades storage	10,000
Black Canyon Exchange	529,445
Loan for water project	250,000
Total committed but not disbursed	\$3,920,645
Loan principal outstanding	325,898
Uncommitted balance	136,105
Estimated revenues next 12 months	172,000
Commitments from revenues over next 12 months	0
Estimated uncommitted funds over next 12 months	308,105

*Rev. Dev. Acct. Bell Rapids Sub-Account*

Committed but not disbursed (finance costs)	\$179,902
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.)	\$1,344,576
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. Treasure Valley & Rathdrum Prairie CAMP Sub-Account*

Committed but not disbursed	\$258,745
Estimated revenues next 12 months (5)	200,000
Estimated uncommitted funds over next 12 months	0

*Rev. Dev. Acct. Pristine Springs Sub-Account*

Committed but not disbursed	
Repair fund	\$1,177,428
ESPA CAMP	616,455 (to be transferred to Secondary
Aquifer Fund)	
Total committed but not disbursed	\$1,793,883
Loan principal outstanding	7,127,940
Uncommitted balance	0
Estimated revenues next 12 months	800,000
Commitments from revenues over next 12 months	800,000
Estimated uncommitted funds over next 12 months	0

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

Committed but not disbursed	\$2,710,094
(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	1,970
Uncommitted balance	7,659
Estimated revenues next 12 months	2,000
Commitments from revenues over next 12 months	0
Estimated uncommitted funds over next 12 months	\$9,659

*Secondary Aquifer Management Fund*

Committed but not disbursed:	\$1,873,680
Uncommitted balance	1,560,049
Estimated revenues next 12 months	643,455
Commitments from revenues over next 12 months	0
Estimated uncommitted funds over next 12 months	2,203,504

<b>Total committed but not disbursed</b>	<b>\$18,513,330</b>
<b>Total loan principal outstanding</b>	<b>15,093,510</b>
<b>Total uncommitted balance</b>	<b>4,788,357</b>
<b>Total estimated uncommitted funds over next 12 months</b>	<b>7,592,181</b>

- (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 \$2,184,785.
- (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.
- (5) From Pristine Springs hydropower and rental income.

The **Hoyt Bluff Water Association** has repaid the IWRB in full. The IWRB loaned Hoyt Bluff **\$279,029** to construct a new community water well into the Rathdrum Prairie Aquifer and build a pipeline to transport the water up to the hill on which this community is located overlooking the Rathdrum Prairie.

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

Potential Applicant	Potential Project	Preliminary Loan Amount	Comment
Raft River Ground Water District	Ground water-to-surface water conversion pipeline	\$2 million	Project in planning and design. Applying for NRCS cost share grants.
A&B Irrigation District	Ground water-to-surface water conversion pipeline	\$2 million	Project in planning and design. Applying for NRCS AWEF cost share grants.
Marysville Irrigation Company/North Fremont	Gravity pipeline system – next phase	\$1.5 million	Project in planning and design. Applying for NRCS cost share grants

RECEIVED

JUL 31 2012

DEPARTMENT OF  
WATER RESOURCES**TREASURETON IRRIGATION  
COMPANY**

9479 N. Treasureton Road

Preston ID 83263

July 25, 2012

Idaho Water Resource Board

Re: Cottonwood Pipeline Project

Dear Board:

At the IDWR board meeting on July 20, 2012 we were asked by the board to write what we thought would be a fair resolution to our problem of finances concerning the bond issue process.

As we pointed out before, we were told in an email dated May 31, 2011 from Don Nelson, for \$7,000 in closing costs we would receive a 4% loan. Prior to this we had been told the closing costs would be \$5,000. We swallowed hard at the extra \$2,000, but decided for the 4% loan, we would go ahead and pay the full \$7,000 to get the cheaper money. We had already spent many hours and many thousand of dollars forming an LID and we did not want to waste this investment.


The end result absolutely shocked us. Closing costs were \$13,653 instead of the \$7,000 we anticipated. We were also forced to borrow \$12,000 to put into a debt service reserve fund which we will be forced to pay interest on for 20 years. That interest alone will be over \$14,000 based on a 5.95% interest rate. After all these fees for this low interest bond loan, we were still given a 5.95% loan. We had been told we would get a 4% interest rate loan.

Our payment should have been based on a \$94,347 payoff amount to Ireland Bank plus \$7,000 which equals \$101,347 for 20 years at 4% with a payment of \$7,457 yearly. In reality our payment now, based on all the added fees and higher interest is \$ 94,347 Ireland Bank payoff, \$13,653 closing costs, \$12,000 reserve fund which results in a \$120,000 loan at 5.95%. This payment will be \$10,419. This is unless someone comes up with more fees. This yearly payment amount is \$2,962 higher per year than it should be for the 20 year loan. Over the 20 year loan period the total cost is \$59,240 more (20 x \$2,962=\$59,240).

Page 2  
Treasureton Irrigation Company

If we still get our \$12,000 reserve payment back, we would only lose \$47,240. If the board would give us 1/2 of this \$47,240 up front, which is \$23,620, we would be happy.

Sincerely,



Brad P. Shumway, President  
Treasureton Irrigation Company



Miles Geddes  
Pipeline Project Manager

/js

6  
IDAHO WATER RESOURCE BOARD  
Sources and Applications of Funds  
as of March 31, 2013  
**REVOLVING DEVELOPMENT ACCOUNT**

Original Appropriation (1969).....		\$500,000.00
Legislative Audits.....		(\$45,834.45)
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.....		\$6,137,539.82
Interest Earned State Treasury (Transferred).....		\$1,612,515.45
Filing Fee Balance.....		\$47,640.20
Bond Fees.....		\$1,474,173.20
Arbitrage Calculation Fees.....		(\$9,000.00)
Protest Fees.....		(\$300.00)
Series 2000 (Caldwell/New York) Pooled Bond Issuers fees.....		\$43,657.93
2012 Ground Water District Bond Issuer fees.....		\$377,000.00
Bond Issuer fees.....		\$48,774.09
Attorney fees for Jughandle LID.....		(\$3,600.00)
Water Supply Bank Receipts.....		\$3,426,266.81
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.....		(\$1,221,960.18)
Weiser Galloway Study - US Army Corps of Engineers.....		(\$1,245,202.74)
<b>Bell Rapids Water Rights Sub-Account</b>		
Legislative Appropriation 2005, HB392.....	\$21,300,000.00	
Interest Earned State Treasury.....	\$692,042.30	
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, water bank, etc.).....	(\$6,740.10)	
<b>Commitments</b>		
Ongoing Bell Rapids Finance Costs (trustee fees, etc.).....	\$179,901.74	
Committed for alternative finance payment.....	\$0.00	
<b>Total Commitments.....</b>	<b>\$179,901.74</b>	
<b>Balance Bell Rapids Water Rights Sub-Account.....</b>	<b>(\$0.00)</b>	
<b>Pristine Springs Project Sub-Account</b>		
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.....	\$31,114.67	
Loan Interest.....	\$1,443,691.29	
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.....	\$2,872,059.82	
Appraisal.....	(\$15,000.00)	
Insurance.....	(\$20,650.00)	
Recharge District Assessment.....	(\$6,051.00)	
Water District 130 Annual Assessment.....	(\$1,467.81)	
Hydro Plants Engineering Certification (Straubhar).....	(\$3,000.00)	
Payment to EHM Engineers for pipeline work.....	(\$1,200.00)	
Payment to John Root for Easement Survey.....	(\$1,000.00)	
Payment to MWH Americas Inc.....	(\$11,326.27)	
Telemetry Station Equipment.....	(\$15,244.89)	
Rein Tech LLC (Satellite phone annual payment).....	(\$495.00)	
Standley Trenching (Trac system for communication equip).....	(\$1,400.00)	
Property Taxes and other fee assessments (Jerome County).....	(\$6,319.39)	
Rental Payments.....	\$1,373,634.32	
Transferred to Secondary Aquifer Fund (2011 Legislature; HB 291).....	(\$2,465,300.00)	
Transferred to Secondary Aquifer Fund (2012 Legislature; SB 1389).....	(\$1,232,000.00)	
<b>Pristine Springs Hydropower Projects</b>		
Net power sales revenues.....	\$245,842.17	
<b>Pristine Springs Committed Funds</b>		
ESPA CAMP (to be transferred to Secondary Fund).....	616,454.72	
Repair/Replacement Fund.....	\$1,177,427.96	
<b>TOTAL COMMITTED FUNDS.....</b>	<b>\$1,793,882.68</b>	
<b>Loans Outstanding</b>		
North Snake and Magic Valley Ground Water Districts.....	\$7,127,940.18	
<b>Total Loans Outstanding.....</b>	<b>\$7,127,940.18</b>	
<b>Funds to RP CAMP &amp; TV CAMP Sub-Account.....</b>		<b>\$261,672.34</b>

Pristine Springs Revenues into Main Revolving Development Account.....

\$130,332.89

**Rathdrum Prairie CAMP & Treasure Valley CAMP Sub-Account**

Pristine Springs Hydropower and Rental Revenues.....	\$261,672.34
Interest Earned State Treasury.....	\$573.11
Spokane River Forum.....	(\$3,000.00)
Treasure Valley Water Quality Summit.....	(\$500.00)
Committed Funds.....	
Treasure Valley Water Quality Summit.....	0.00

**Balance Rathdrum Prairie CAMP & Treasure Valley CAMP Sub-Account.....** **\$258,745.45****Upper Salmon/CBWTP Sub-Account**

Water Transaction Projects Payment Advances from CBWTP/Accord .....	\$2,840,997.65
PCSRF Funds for Administration of Non-Diversion Easements on Lemhi River.....	\$157,279.26
Interest Earned State Treasury.....	\$90,486.90
Transfer to Water Supply Bank.....	(\$44,715.10)
Change of Ownership.....	(\$600.00)
Alturas Lake Creek Appraisal.....	(\$8,989.23)
Payments for Water Acquisition .....	(\$337,190.65)

**Committed Funds**

Administration of Non-Diversion Easements on Lemhi River.....	\$158,532.38
Alturas Lake Creek (Breckenridge).....	(\$0.00)
Bayhorse Creek.....	\$28,992.56
Beaver Creek (DOT LLP).....	\$15,756.01
Big Hat Creek.....	\$270.85
Big Timber Tyler (Leadore Land Partners).....	\$429,168.31
Canyon Creek/Big Timber Creek (Beyeler).....	\$402,367.55
Fourth of July Creek (Vanderbilt).....	\$17,581.57
Iron Creek (Phillips).....	\$216,368.67
Lemhi River & Little Springs Creek (Kauer).....	\$18,827.49
Little Springs Creek (Snyder).....	\$251,817.65
Lower Eighteenmile Creek (Ellsworth Angus Ranch).....	\$6,058.63
Lower Lemhi M Olson (Mark Olson).....	\$11,218.29
Lower Lemhi Thomas (Robert Thomas).....	\$2,370.46
P-9 Bowles (River Valley Ranch).....	\$278,581.23
P-9 Charlton (Sydney Downton).....	\$18,439.38
P-9 Downton (Jim Downton Ranch).....	\$220,962.37
P-9 Elzinga (Elzinga).....	\$273,312.38
Patterson-Big Springs (PBSC9).....	\$167,848.67
Sulphur Creek.....	\$12,305.00
Whitefish (Leadore Land Partners).....	\$179,314.72

**Total Committed Funds.....** **\$2,710,094.15****Balance CBWTP Sub-Account.....** **(\$12,825.32)****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.....	\$1,882,118.54
Loan Interest.....	\$192,956.69
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.....	(\$3,511,902.39)
Reimbursement from BOR for Palisades Reservoir.....	\$2,381.12
W-Canal Project Costs.....	(\$326,834.11)
Black Canyon Exchange Project Costs.....	(\$71,680.00)
Black Canyon Exchange Project Revenues.....	\$23,800.00
2008 Recharge Conveyance Costs.....	(\$14,580.00)
2009 Recharge Conveyance Costs.....	(\$355,253.00)
2010 Recharge Conveyance Costs.....	(\$484,231.62)
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.....	\$0.00
Commitment - Additional recharge projects preliminary development.....	\$350,000.00
Commitment - Palisades Storage O&M.....	\$10,000.00
Commitment - Black Canyon Exchange Project (fund with ongoing revenues).....	\$529,444.95
Commitment - W-Canal Aquifer and Recharge Conveyance.....	\$0.00

**Total Loans and Other Commitments.....** **\$3,920,645.45****Loans Outstanding:**

American Falls-Aberdeen GWD (CREP).....	\$105,055.70
Bingham GWD (CREP).....	\$0.00
Bonneville Jefferson GWD (CREP).....	\$62,317.68
Magic Valley GWD (CREP).....	\$100,453.62
North Snake GWD (CREP).....	\$58,070.56
<b>TOTAL ESP LOANS OUTSTANDING.....</b>	<b>\$325,897.56</b>

**Uncommitted Balance Eastern Snake Plain Sub-Account.....** **\$136,104.81****Dworshak Hydropower Project**

Dworshak Project Revenues	
Power Sales & Other.....	\$5,710,719.01

	8		
Interest Earned State Treasury.....	467,787.06		
Total Dworshak Project Revenues.....		\$6,178,506.07	
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.....	\$1,547,240.40		
Powerplant Repairs.....	\$58,488.80		
Capital Improvements.....	\$318,366.79		
FERC Payments.....	\$35,956.16		
Total Dworshak Project Expenses.....		(\$2,649,144.96)	
Dworshak Project Committed Funds			
Emergency Repair/Future Replacement Fund.....	\$1,314,575.00		
FERC Fee Payment Fund.....	\$30,001.49		
Total Dworshak Project Committed Funds.....		\$1,344,576.49	
Excess Dworshak Funds into Main Revolving Development Account.....			\$2,184,784.62
<b>TOTAL.....</b>			<b>\$17,042,674.26</b>
Loans Outstanding:	Amount	Principal	
	Loaned	Outstanding	
Aberdeen-Springfield Canal Company (WRB-491; Diversion structure).....	\$329,761	\$198,967.51	
Big Wood Canal Company (23-Jan-09; Thorn Creek Flume).....	\$90,000	\$15,311.59	
Boise City Canal Company (WRB-492)...18th St Canal Rehab	\$82,362	\$21,422.81	
Boise City Canal Company (WRB-492)...Grove St Canal Rehab	\$110,618	\$54,215.30	
Bonnie Laura Water Corporation (14-Jul-06; Well repairs).....	\$71,000	\$39,259.29	
Canyon County Drainage District No. 2 ( 28-Nov-12; Drain tile pipeline	\$35,000	\$35,000.00	
Carlin Bay Property Owners Association.....	\$115,609	\$0.00	
Challis Irrigation Company (28-Nov-07; river gate replacement).....	\$50,000	\$30,668.69	
Chaparral Water Association.....	\$90,154	\$17,165.69	
Chaparral Water Association (21-Jan-11; Well deepening & improve	68,000	\$32,625.39	
Cloverdale Ridge Water Corp. (irrigation system rehab 25-sep-09).....	106,400	\$72,611.48	
Country Club Subdivision Water Association (18-May-07, Well Project).	\$102,000	\$57,568.63	
Cub River Irrigation Company (18-Nov-05; Pipeline project).....	\$1,000,000	\$848,571.79	
Cub River Irrigation Company.....	\$500,000	\$402,731.19	
Dalton Water Association (14-Mar-08; Water main replacement).....	\$375,088	\$0.00	
Deep Creek Property Owners Association.....	\$25,115	\$2,993.84	
Enterprise Irrigation District (14-Jul-06; Pipeline project).....	\$37,270	\$18,207.52	
Enterprise Irrigation District (North Lateral Pipeline).....	\$105,420	\$52,592.14	
Evergreen Terrace Water Association (water study; 25-sep-09).....	\$15,000	\$0.00	
Firth, City of.....	\$112,888	\$38,715.57	
Foothills Ranch Homeowners Association (7-oct-11; well rehab).....	\$150,000	\$135,187.76	
Garden Valley Ranchettes Homeowners Association (25-Jan-05).....	\$2,716	\$1,641.85	
Genesee, City of (Storage tank, 22-Jan-10).....	\$250,000	\$86,387.30	
Georgetown, City of.....	\$278,500	\$77,603.92	
Harbor View Water & Sewer District (Combined Loans).....	\$602,819	\$187,051.41	
Hoyt Bluff Water Association (Rathdrum Prairie Well).....	\$273,029	\$21,456.68	
Jefferson Irrigation Company (well deepenings).....	\$110,780	\$0.00	
Jefferson Irrigation Company (well deepenings).....	\$207,016	\$72,728.09	
Jefferson Irrigation Company (9-May-2008 Well Replacement).....	\$81,000	\$64,668.15	
Jughandle HOA/Valley County Local Improvement District No. 1 (well pi	\$907,552	\$810,295.00	
King Hill Irrigation District (24-Sep-10; Pipeline replacement.....	\$300,000	\$123,313.41	
Kulleyspell Estates Property Owners Assoc.....	\$219,510	\$0.00	
Lake Reservoir Company (29-July-11; Payette Lake-Lardo Dam Outlet	\$594,000	\$308,243.11	
Lakeview Water District.....	\$45,146	\$0.00	
Last Chance Canal Company (WRB-497).....	\$500,000	\$181,760.75	
Lava Hot Springs, City of.....	\$347,510	\$190,259.92	
Lindsay Lateral Association (22-Aug-03).....	\$9,600	\$3,215.63	
Lindsay Lateral Association (Engineering Design Project).....	\$35,000	\$15,200.00	
Lindsay Lateral Association (Pipeline Study).....	\$15,000	\$4,500.00	
Live-More Lake Community (9-Jun-04).....	\$42,000	\$16,058.22	
Lower Payette Ditch Company (2-Apr-04; Diversion dam replacement)	\$875,000	\$374,320.29	
Marsh Center Irrigation Company (13-May-05; Hawkins Dam).....	\$236,141	\$148,277.20	
Marysville Irrigation Company (18-May-07, Pipeline Project Phase 1)....	\$625,000	\$377,890.82	
Marysville Irrigation Company (9-May-08, Pipeline Project Phase 2).....	\$1,100,000	\$631,477.52	
McGuire Estates Water Users Association (4-Mar-05).....	\$60,851	\$25,725.37	
Meander Point Subdivision Homeowners Association (7-Sep-07; comm	\$330,000	\$82,907.62	
Meridian Heights Water & Sewer Association (18-May-07).....	\$350,000	\$279,271.42	
Monument Ridge Homeowners Association (20-Mar-09; irrigation syst	\$360,000	\$0.00	
Mores Creek Rim Ranches Water District.....	\$221,400	\$51,154.62	
New Hope Water Corporation.....	\$42,000	\$0.00	
New Hope Water Corporation.....	\$151,460	\$63,411.06	
Oakley Valley Water Company.....	\$138,331	\$0.00	
Packsaddle Water Corporation.....	\$49,600	\$0.00	
Picabo Livestock Co (Picabo town water system new well).....	\$38,000	\$0.00	
Pinehurst Water District (14-mar-08; Water Storage tank).....	\$160,000	\$6,678.73	
Powder Valley-Shadowbrook Homeowners Assoc.....	\$201,500	\$5,039.12	
PPRT Water System.....	\$70,972	\$29,901.31	
Preston Riverdale & Mink Creek Canal Co.....	\$400,000	\$0.00	
Preston-Whitney Irrigation Company (29-May-09; Fairview Lateral Pipel	\$800,000	\$216,733.16	
Producers Irrigation Company (17-Mar-06; well replacements).....	\$185,000	\$43,181.96	
Ranch Subdivision Property Owners Assoc.....	\$24,834	\$11,232.12	
Riverside Independent Water District.....	\$350,000	\$198,952.97	
Robertson Ditch Co.....	\$30,000	\$0.00	
Skin Creek Water Association.....	\$188,258	\$106,754.52	
Sourdough Point Owners Association (23-Jan-07; water supply & treatr	\$750,000	\$90,056.29	
Spirit Bend Water Association.....	\$92,000	\$47,881.62	
Thunder Canyon Owners Association (6-Feb-04).....	\$92,416	\$45,328.86	
Twenty-Mile Creek Water Association.....	\$104,933	\$0.00	
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	\$19,328.88	
Twin Lakes-Rathdrum Fld Cont Dist (24-Oct-02; Twin Lakes Dam).....	\$399,988	\$64,340.50	



Whitney-Nashville Water Company.....	\$225,000	\$72,899.26	\$7,637,702.19
<b>TOTAL LOANS OUTSTANDING.....</b>			

**Loans and Other Funding Obligations:**

Senate Bill 1511 - Teton Replacement and Minidoka Enlargement Studies.....	\$678,161.82		
Boise River Storage Feasibility Study.....	\$350,000.00		
Weiser-Galloway Study (28-May-10).....	\$551,620.87		
Canyon Creek Canal Company (14-Mar-08; Pipeline project).....	\$133,599.00		
Canyon County Drainage District No. 2 ( 28-Nov-12; Drain tile pipeline replacement)	\$0.00		
Chaparral Water Association (21-Jan-11; Well deepening & improvement).....	\$18,465.16		
Clearwater Water District - pilot plant (13-Jul-07).....	\$80,000.00		
Consolidated Irrigation Company (July 20, 2012; pipeline project).....	\$1,500,000.00		
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).....	\$14,812.24		
Garden Valley Ranchettes Homeowners Association (25-Jan-05).....	\$8,183.69		
Harvest Valley Homeowners Association (22-Mar-13; Pump Replacement).....	\$4,500.00		
Lake Reservoir Company (29-July-11; Payette Lake-Lardo Dam Outlet Gates).....	\$285,756.89		
Lindsay Lateral Association .....	\$15,300.00		
North Fremont Canal Systems (25-Jan-13; Marysville Project).....	\$2,500,000.00		
North Snake & Magic Valley GWD Loan - Mitigation Pipeline.....	\$250,000.00		
Point Springs Grazing Association (July 20, 2012; storck water pipeline).....	\$48,280.00		
Portneuf Irrigating Company (29-July-11; Pipeline project).....	\$0.00		
<b>TOTAL LOANS AND OTHER FUNDING OBLIGATIONS.....</b>		<b>\$6,634,058.76</b>	
<b>Uncommitted Funds.....</b>		<b>\$2,770,913.31</b>	
<b>TOTAL.....</b>		<b>\$17,042,674.26</b>	

(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 March 31, 2013

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.....	\$120,189.05
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
<b>TOTAL .....</b>	<b>\$4,497,203.86</b>

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
Bonniers 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

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	
<b>TOTAL GRANTS DISBURSED.....</b>		<b>(\$1,632,755.21)</b>
<b>IWRB Expenditures</b>		
Lemhi River Water Right Appraisals.....	\$31,000.00	
<b>Expenditures Directed by Legislature</b>		
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	
<b>TOTAL IWRB AND LEGISLATIVE DIRECTED EXPENDITURES.....</b>		<b>(\$2,732,017.19)</b>
<b>WATER RESOURCE BOARD RECHARGE PROJECTS.....</b>		<b>(\$11,426.88)</b>
<b>CURRENT ACCOUNT BALANCE.....</b>		<b>\$121,004.58</b>
<b>Committed Funds:</b>		
<b>Grants Obligated</b>		
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	
<b>Legislative Directed Obligations</b>		
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	
<b>TOTAL GRANTS &amp; LOANS OBLIGATED &amp; UNDISBURSED.....</b>		<b>\$111,375.55</b>
<b>Loans Outstanding:</b>	<b>Amount Loaned</b>	<b>Principal Outstanding</b>
Arco, City of.....	\$7,500	\$0.00
Butte City, City of.....	\$7,425	\$1,969.94
Roberts, City of.....	\$23,750	\$0.00
Victor, City of.....	\$23,750	\$0.00
<b>TOTAL LOANS OUTSTANDING.....</b>		<b>\$1,969.94</b>
<b>Uncommitted Funds.....</b>		<b>\$7,659.09</b>
<b>CURRENT ACCOUNT BALANCE.....</b>		<b>\$121,004.58</b>

Idaho Water Resource Board  
Sources and Applications of Funds  
as of March 31, 2013

SECONDARY AQUIFER PLANNING, MANAGEMENT, & IMPLEMENTATION FUND

Legislative Appropriation (HB 291, Sec 2).....	\$2,465,300.00
Legislative Appropriation (SB 1389, Sec 5).....	\$1,232,000.00
Interest Earned State Treasury (Transferred).....	\$37,017.67
Water Users Contributions.....	\$100.00
Conversion project (AWEP) measurement device payments.....	(\$16,455.21)
Contribution from GWD's for 2011 ESPA Managed Recharge.....	\$71,893.16
Contribution from GWD's for Revenue Bond Prep Expenses.....	\$14,462.50
American Falls Res. Dist#2 - MP31 Recharge Site Engineering.....	(\$1,593.75)
Bond issuer Fees.....	(\$3,500.00)
Payments for 2012 Recharge.....	(\$260,031.02)
Payment for Recharge.....	(\$80,000.00)
Payment for High Country RC&D Cloud Seeding.....	(\$12,264.62)
Payment for Idaho Irrigation District.....	(\$13,200.00)

Committed Funds

Measurement devices for AWEP conversion projects.....	\$183,544.79
High Country RC&D Cloud Seeding.....	\$27,735.38
American Falls Res. Dist#2 - MP31 Recharge Site Engineering.....	\$4,406.25
American Falls Res. Dist#2 - MP31 Recharge Site Construction.....	\$35,000.00
Five-Year Managed Recharge Pilot Program.....	\$1,239,968.98
Contribution from GWD's for 2011 ESPA Managed Recharge.....	(\$8,106.84)
GWD Bond Preparatory Expenses.....	\$37,500.00
Idaho Irrigation District Recharge Phase 1.....	\$0.00
Fremont-Madison Irrigation District Egin Recharge.....	\$40,000.00
<b>Total Committed Funds.....</b>	<b>\$1,560,048.56</b>

**TOTAL UNCOMMITTED FUNDS..... \$1,873,680.17**

**CURRENT ACCOUNT BALANCE..... \$3,433,728.73**

# MEMO



**To:** Idaho Water Resource Board  
**From:** Stuart VanGreuningen  
**Subject:** Sunset Heights Water District - Exchange water delivery system  
**Date:** May 15, 2013

C.L. "Butch" Otter  
Governor

Roger W. Chase  
IWRB Chairman

Pete Van Der Meulen  
IWRB Vice Chairman

The Sunset Heights Water District is applying for a Water Project Loan from the Revolving Development Account in the amount of **\$48,000.00** to install an irrigation pump and pipeline to supply exchange water as stated in the SRBA.

## 1.0 BACKGROUND

The Sunset Heights Water District (District) is located in Lemhi County approximately five miles south of Salmon, Idaho. The District currently has 57 members with the possibility of 84 at full build out. The District main water source is from a spring which it collects via pipelines and stores it in two 20,000 gallon tanks before delivering it to the users.

In 1972 when the original owner of the land, Adams, decided to develop the land as a subdivision they filed for a water right on the spring to supply fresh water to the subdivision. The water right application was protested by the Hyde Creek Ranch owner. The protest led to an agreement that Adams would supply exchange water to Hyde Creek Ranch in the same amount of water that was diverted from the spring for the subdivision. This agreement along with the water right was then transferred to the District once it was established. No delivery of water has taken place since the agreement was reached and over the years there were several disputes as to how the agreement was to be enacted.

At the time the SRBA began the parties decided to have the agreement between Hyde Creek Ranch and the District documented in the SRBA to eliminate future disputes. The SRBA agreed and the agreement is outlined in the SRBA Water Rights Settlement Agreement between the District and Hyde Creek Ranch. A copy of the SRBA document and the 1972 agreement are on file with the Board.

## 2.0 WATER RIGHTS

Sunset Heights Water District has the following water rights:

Water Right	Amount	Type	Source	Date
75-7032	0.4	Decree	Spring	1972
75-7177	0.2	Decree	Hyde Creek	1980
75-14696	0.4	Permit	Salmon River	2010
75-14180	0.4	Claim	South Fork Seven Mile Creek	1895

**Note:** Water Right 75-14696 is the water right that is designated for the exchange water.

## 3.0 PROPOSED PROJECT

The proposed project is to install an irrigation pump, pipeline and associated equipment to deliver the exchange water as stated in the SRBA. The Source of the water will be the Snake River diverged under Water Right Permit 75-14696. The District has also entered into an agreement with the Pope Ditch Company to deliver the water to the point where it will be pumped to the Hyde Creek Ranch.

## 4.0 PROJECT COST ESTIMATE

The following cost estimate was supplied by the District for the installation of the equipment.

Mainline & valves	\$5995.00
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Remove old pump house and concrete	\$1539.00
Install new pump house and pump	\$2982.00
Relocate pump panel and wiring	\$1560.00
Install pipeline	\$6676.25
Hose reel machine	\$11,212.45
Pump station parts & materials	\$18,043.40
<b>TOTAL</b>	<b>\$48,000.00</b>

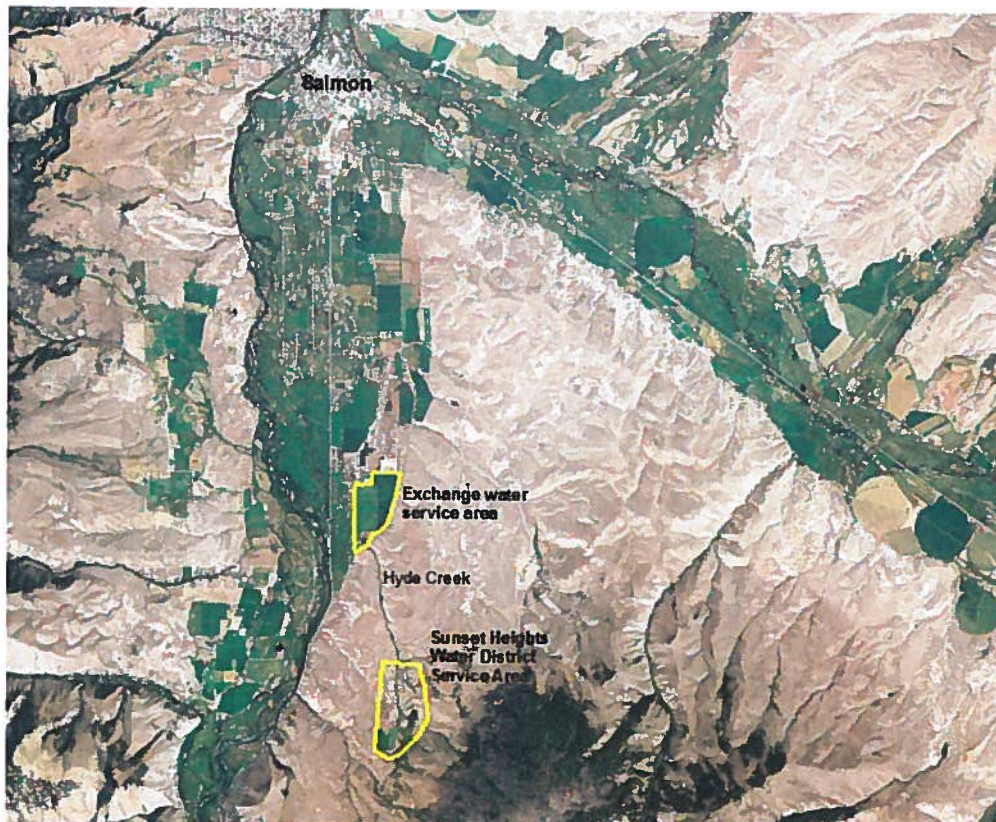
## 5.0 FINANCIAL

Sunset Heights Water District is requesting financing in the amount of \$48,000 at 5.5% for the purchase and installation of an irrigation system to deliver exchange water. They are offering as security for the loan the assessment income, water rights and the various buildings and equipment owned by the District. The District previously borrowed funds from the Board in 2004 to replace a pipeline that was damaged in a fire. The loan at that time was for \$35,000 and was paid off in 2005.

Term	Estimated Payment/year	Estimated Assessment/year/connection
5	\$11,354	\$200
10	\$6,432	\$113
15	\$4,830	\$85

## 6.0 CONCLUSION AND RECOMMENDATION

This project is required as part of an agreement between the parties involved and stipulated in the SRBA. Staff recommends approval of a loan for the Exchange Water Project in the amount of **\$48,000 at 5.5% for 10 years.**



BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF THE  
SUNSET HEIGHTS  
WATER DISTRICT

---

) A RESOLUTION TO MAKE  
) A FUNDING COMMITMENT  
)  
)

WHEREAS, the Sunset Heights Water District (District) has submitted an application to the Idaho Water Resource Board (IWRB) requesting a loan in the amount of \$48,000.00; and

WHEREAS, the District currently provides water to 57 hookups near Salmon, Idaho; and

WHEREAS, the District entered into an agreement with Hyde Creek Ranch to supply exchange water to replace water used by the District and the agreement was documented in the SRBA; and

WHEREAS, the District is requesting funds for the installation of an irrigation water delivery system to deliver the exchange water; and

WHEREAS, the District is a qualified applicant and the proposed project qualifies for a loan from the Revolving Development Account; and

WHEREAS, the proposed exchange water 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 \$48,000 from the Revolving Development Account at \_\_\_\_\_ interest with a \_\_\_\_\_ year repayment term and a grant from the Revolving Development Account for \_\_\_\_\_ and provides authority to the Chairman or his designee of the Idaho Department of Water Resources, 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 applicable rules and regulations that apply to the proposed project.
- 2) The District shall provide acceptable security for the loan to the IWRB including but not limited to the District's facilities.

DATED this 17th day of May, 2013.

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ROGER W. CHASE, Chairman  
Idaho Water Resource Board

ATTEST

---

BOB GRAHAM, Secretary



Stuart

Sunset Heights Water District  
5 Bluebell Lane  
Salmon ID 83467  
208-756-1336  
[2pamandal2@gmail.com](mailto:2pamandal2@gmail.com)

March 17, 2013

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

Subject: Request for Loan

Reference: Our attached Loan Application

To Whom It May Concern:

Sunset Heights Water District is requesting a loan in the amount of \$47,555.59. This loan is to satisfy a 1972 legal agreement (recently updated) and exchange requirement with senior water rights tied to the Hyde Creek Ranch. We are currently in jeopardy of losing our Pope Ditch Water right if we do not comply with the agreement by September 2013 (as per IDWR timeline).

Thanking you in advance for your consideration.

Regards,



Pam Preheim  
Chairman



# Memorandum



To: Idaho Water Resource Board

From: Morgan Case

Date: May 3, 2013

Re: Water Transactions Program –Lower Lemhi Dallas Olson Subordination Agreement

**ACTION REQUESTED: On May 3, 2013, the IWRB Streamflow Enhancement and Minimum Streamflow Committee reviewed this project and recommended approval of the resolution.**

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 (map below) in the Lemhi Framework which was developed as part of 2004 Snake River Water Rights (Nez Perce) Agreement.

The framework carries forward target goals which were included in earlier conservation agreements developed and approved by local water users, and state and federal agencies. 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.

Through enacting Idaho Code 42-1506 and 42-1765A, the Idaho Legislature directed the Board to establish a minimum streamflow water right of 35 cfs in the Lower Lemhi River to be met through water right rentals or other appropriate methods under state law.

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:	
Subordination Easements (14.93)	
Thomas Agreement	( 1.14)
TNC Donation	( 0.30)
City of Salmon Source Switch	( 2.42)
<b>Annual Subordination Agreements</b>	<b>(16.21)</b>

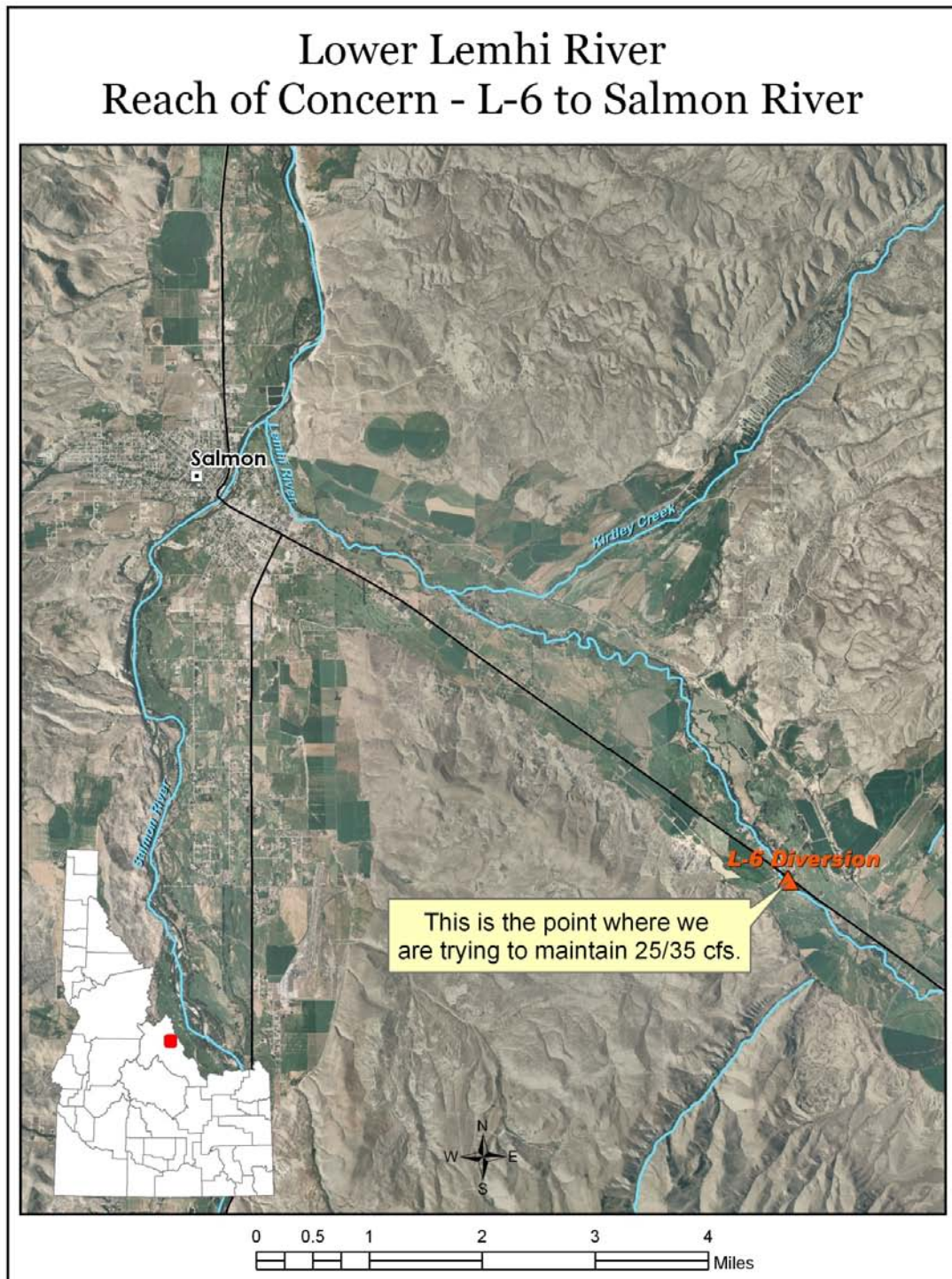
The annual subordination agreements and agreements in allow water users to irrigate their full irrigated acreage, unless the Board's minimum stream flow water right is not being met. As flows approach 35 cfs, participants rotate use to maintain the minimum flow. After July 1, flows are allowed to drop to 25 cfs. There are limited times when all participants are not diverting, but when flows increase, they can divert and irrigate. In some years, the participants have full access to their water rights throughout the irrigation season. In the early 2000s, lease agreements required the water users to dry up their irrigated ground for the majority of the irrigation season to maintain flows. The subordination agreement allows maximum use of water whenever flows are above the minimum 25/35 cfs, while providing a minimum flow to protect movement of ESA-listed species.

In order to move towards the goal of protecting 35 cfs instream in perpetuity, staff proposes entering into a subordination agreement from Dallas Olson on his 1.86 cfs right from the L-6 diversion (Water Right No. 74-319B). The agreement would allow irrigation when flows are above 25/35 cfs. To date, the

average number of days without diversion is 19. The Olson family has expressed an interest in pursuing a long-term/perpetual agreement.

Funds are available for the agreement from the Idaho Fish Accord Water Transactions Fund. Payment is based on appraisals and the previous purchase price of \$86,000 per cfs plus an additional \$11,500 per cfs to go towards contracts with WD-74 to administer the subordination (to be placed in the water transaction sub-account of the Revolving Development Account), for a total of \$181,350.

Staff will prepare an expenditure of funds resolution to enter into a subordination agreement on Water Right No. 74-319B. The cost will be **\$159,960** and the administration fee will be **\$21,390**.



# Memorandum



To: Idaho Water Resource Board

From: Morgan Case

Date: May 3, 2013

Re: Water Transactions Program – Lower Lemhi Parmenter Subordination Agreement

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**ACTION REQUESTED: On May 3, 2013, the IWRB Streamflow Enhancement and Minimum Streamflow Committee reviewed this project and recommended approval of the resolution.**

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 committed to maintaining flows between 25 and 35 cfs at the L-6 diversion (map below) in the Lemhi Framework which was developed as part of the 2004 Snake River Water Rights (Nez Perce) Agreement. The framework carries forward target goals which were included in earlier conservation agreements developed and approved by local water users, and state and federal agencies. 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.

Through enacting Idaho Code 42-1506 and 42-1765A, the Idaho Legislature directed the Board to establish a minimum streamflow water right of 35 cfs in the Lower Lemhi River to be met through water right rentals or other appropriate methods under state law.

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:	
Subordination Agreements	(14.93)
Thomas Agreement	( 1.14)
TNC Donation	( 0.30)
City of Salmon Source Switch	( 2.42)
<b>Annual Subordination Agreements</b>	<b>(16.21)</b>

The annual subordination agreements and agreements in perpetuity allow water users to irrigate their full irrigated acreage, unless the Board's minimum stream flow water right is not being met. As flows approach 35 cfs, participants rotate use to maintain the minimum flow. After July 1, flows are allowed to drop to 25 cfs. There are limited times when all participants are not diverting, but when flows increase, they can divert and irrigate. In some years, the participants have full access to their water rights throughout the irrigation season. In the early 2000s, lease agreements required the water users to dry up their irrigated ground for the majority of the irrigation season to maintain flows. The subordination agreement allows maximum use of water whenever flows are above the minimum 25-35 cfs, while providing a minimum flow to protect movement of ESA-listed species.

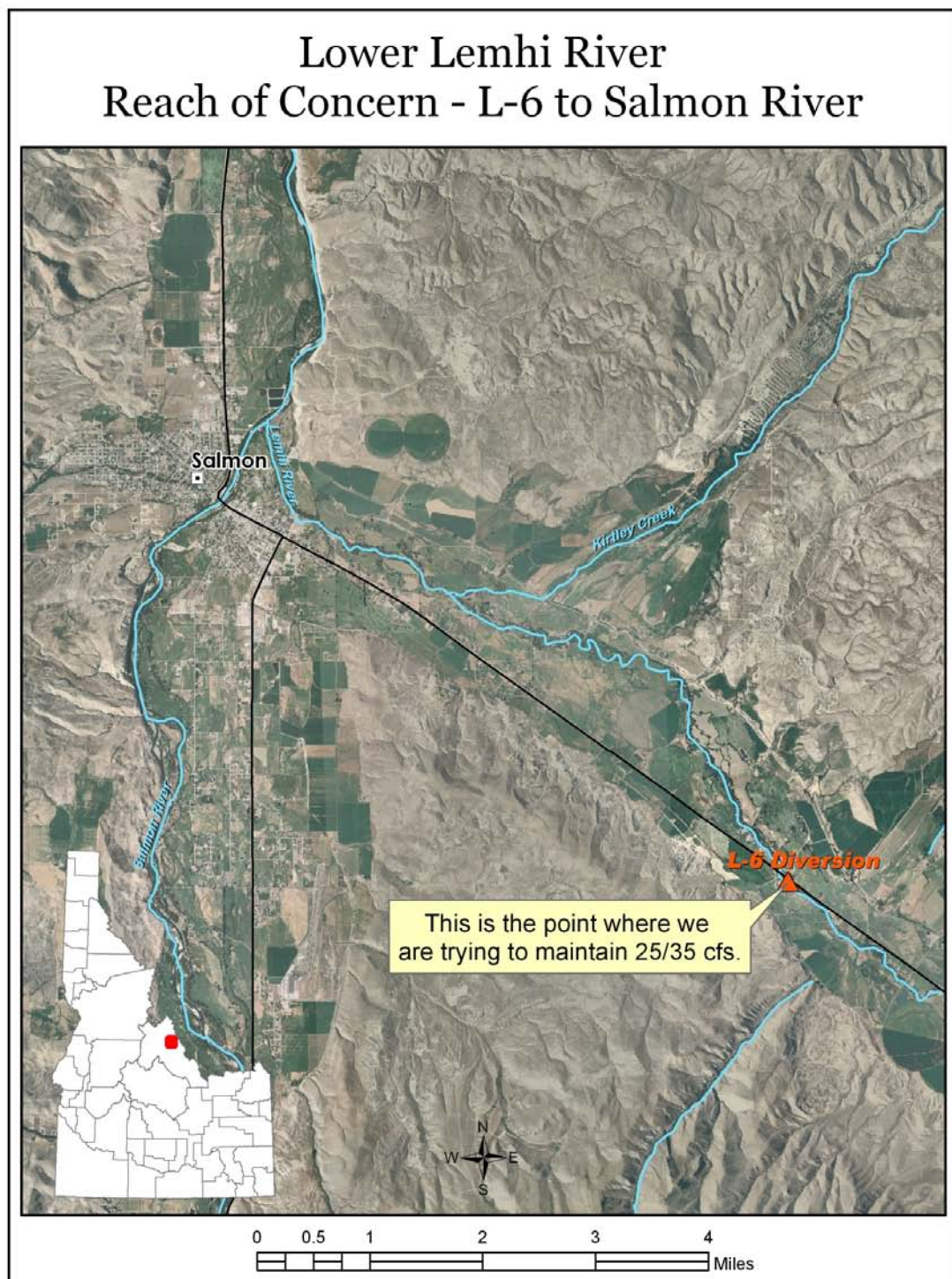
In order to move towards the goal of protecting 35 cfs instream in perpetuity, staff proposes entering into a subordination agreement with Parmenter, on the 0.6 cfs right from the L-6 diversion (Water Right No. 74-320). The agreement would allow irrigation when flows are above 25-35 cfs. To date, the average



number of days without diversion is 19. The Parmenter family has been participating in the annual agreements to date, and has expressed an interest in pursuing a long-term/perpetual agreement.

Funds are available for the agreement from the Idaho Fish Accord Water Transactions Fund. Payment is based on appraisals and the previous purchase price of \$86,000 per cfs plus an additional \$11,500 per cfs to go towards contracts with WD-74 to administer the subordination (to be placed in the water transaction sub-account of the Revolving Development Account), for a total of \$58,500.

Staff will prepare an expenditure of funds resolution to enter into a subordination agreement on Water Right No. 74-320. The cost will be **\$51,600** and the administration fee will be **\$6,900**.



BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF THE	)	A RESOLUTION TO MAKE
LOWER LEMHI RIVER	)	A FUNDING COMMITMENT
_____	)	

WHEREAS, Chinook salmon, steelhead, and bull trout habitat in the Lemhi River Basin is limited by low flow in the Lower Lemhi River; and

WHEREAS, it is in the interest of the State of Idaho to permanently reconnect the Lower Lemhi River to encourage recovery of ESA-listed Chinook salmon, steelhead, and bull trout; and

WHEREAS, the State of Idaho committed to maintaining flows of 25 cfs to 35cfs at the L-6 Diversion on the Lower Lemhi River in the Lemhi Framework which was developed as part of the 2004 Snake River Water Rights Agreement; and

WHEREAS, the Lemhi Framework carries forward target goals which were included in earlier conservation agreements developed and approved by local water users, and state and federal agencies; and

WHEREAS, though enacting Idaho Code 42-1506 and 42-1765A, the Idaho Legislature directed the Board to establish a minimum streamflow water right of 35 cfs in the Lower Lemhi River to be met through water right rentals or other appropriate methods under state law; and

WHEREAS, the Idaho Water Resource Board has the authority to enter into water right agreements and undertake water projects; and

WHEREAS, the Idaho Water Resource Board is authorized to expend Bonneville Power Administration funds for flow restoration through the Columbia Basin Water Transaction Program and the Bonneville Fish Accord Water Transaction Fund; and

WHEREAS, the Idaho Water Resource Board promotes water rights agreements and water projects that maintain the local agricultural economy by retaining irrigated agriculture while providing flows necessary for recovery of ESA-listed fish species; and

WHEREAS, the water users desire to enter into perpetual subordination agreements; and

WHEREAS, staff has developed subordination agreements to improve stream flow for anadromous and resident fish with owners of water rights 74-319B and 74-320; and

WHEREAS, the water users to the water users desire to enter into subordination agreements that limit their diversions during times of low flow; and

WHEREAS, for these agreements, the water users will continue to irrigate to their full

extent when flows exceed the flow targets; and

WHEREAS, \$211,560 is available through the Idaho Fish Accord – Idaho Water transactions Fund or the Columbia Basin Water Transaction Program to fund the cost of said agreements; and

WHEREAS, \$28,290 is available through the Idaho Fish Accord – Idaho Water transactions Fund or the Columbia Basin Water Transaction Program to fund the administration of said agreements by Water District 74; and

WHEREAS, the Lemhi Subordination Agreements 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 subordination Agreements with the current or subsequent owners of water rights 74-319B and 74-320 to subordinate their diversions from the Lemhi River to the IWRB's Lemhi River minimum streamflow water right,, using an amount not to exceed \$211,560 (\$51,600 water right 74-320; \$159,960 water right 74-319B).

NOW THEREFORE BE IT RESOLVED that the IWRB authorizes the Chairman to enter into Contracts with Water District 74 using administration funds in the amount of \$28,290 (\$6,900 water right 74-320 and \$21,390 water right 74-319B), plus any interest gained in the 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 Accord – Idaho Water Transactions Fund or the Columbia Basin Water Transaction Program in the amount of \$239,850.

DATED this 17th day of May, 2013.

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ROGER CHASE, Chairman  
Idaho Water Resource Board

ATTEST: \_\_\_\_\_  
BOB GRAHAM, Secretary







benefit is determined using theoretical calculations agreed to by the original Treaty authors, and the Canadian share of the power generation, known as the “Canadian Entitlement,” is delivered from the U.S. to Canada.

Because the power was not immediately needed to serve its demand, Canada sold the first 30 years of the Canadian Entitlement to a U.S. consortium of utilities for \$254 million in 1964. The value of the Canadian Entitlement, combined with pre-payment for flood risk management, helped finance Duncan, Keenleyside and Mica dams. Now that the 30-year contracts have expired, the U.S. delivers the Canadian Entitlement energy to BC Hydro over Bonneville Power Administration transmission lines. BPA estimates that this energy entitlement is worth between \$250 million and \$350 million a year.

## Evolving Issues

The Columbia River Treaty has provided many benefits to Canada and the U.S. Building the Treaty dams helped address economic issues and public safety. While much has remained the same since the Treaty went into effect, much has changed.

**Ecosystem-based function** — Ecosystem-based function refers to environmental conditions including streamflows, water quality and the cultural and societal benefits of healthy fish and wildlife populations. Ecosystem considerations such as those for enhanced fish and wildlife protection are the subject of significant conversation today even as federal responsibilities have expanded to include the increased use of basin water to aid fish migration up and down the rivers. Some parties involved in discussions on the Treaty’s future consider ecosystem issues comparable to those of power generation and flood risk management, maintaining that the overall ecosystem health of the river and its surrounding land must be considered into the future.

**Navigation** — Oceangoing ships ply the 106 miles of the Columbia River from Astoria, Ore., to international shipping terminals in the Portland/Vancouver area. Tugs and barges travel the 359 miles between the Portland area and Lewiston, Idaho, to haul wood, grain and other regionally important commodities. In 2012, Portland marine terminals alone handled 3.7 million tons of grain from upriver ports. Reservoir



*Tiny chinook salmon smolts hatch in the Columbia and its tributaries then migrate to sea.*



*The Columbia River is an important thoroughfare for commerce.*

levels must be maintained to a 14-foot depth to allow safe passage of the barges and other traffic on the upper river. Given that the headwaters of the Columbia River are in Canada, the effect that any potential future changes to the Treaty would have on navigation requires study.

**Recreation** — Recreational use of the river and reservoirs varies widely, including fishing, swimming, water skiing, windsurfing, picnicking, camping, rafting, boating, sightseeing, hunting and bird watching. Many recreational activities benefit from stable water levels, but flood risk management and routine power demands require that reservoir water levels fluctuate.

**Irrigation** — Water from the Columbia River system irrigates more than 7.3 million acres of land in the basin. Annually, millions of acre-feet (an acre-foot is enough water to cover one acre with one foot of water) of Columbia Basin river flow, through diversions and pumping, is used for irrigation. Some of this volume is not consumed but comes back to the rivers as irrigation return flow. Irrigators are concerned about the overall availability of water, particularly in dry years, and specifically about reservoir levels that can fall below pump intakes, rendering them inoperable.

**Climate change** — Most projections of the effect of climate change on the Columbia River Basin expect less snowpack but more rain and warmer winters and summers. This shift, with the resulting earlier spring runoff, would have an effect on all uses in the basin.

## Tradeoffs and balances in the Treaty’s future

These are just some of the issues the original Treaty did not address. There are more: the impact of river operations on municipal water supplies or sites of cultural significance to the region’s Native Americans, for example. Perhaps the most striking aspect of the demands placed on the river, aside from their abundance, is that they often require tradeoffs. Although the Columbia River system is vast, its water is limited and the demands placed upon it have never been higher.

Many tradeoffs will need to be considered. The water that could be supplied for irrigation may also be needed for



*Irrigation enables bountiful crops to grow in otherwise arid country.*

improved ecosystem function. Water stored in a reservoir for ecosystem flows could take the space that is needed for flood risk management. The water flows that fishers need in the Kootenai River downstream from Libby Dam may conflict with dam operations for flood risk mitigation or to encourage spawning among endangered sturgeon. Shifting water from fall and winter releases to spring periods may reduce power supply.

The two nations, through the Treaty Review process, are now studying their options and considering the Treaty’s future in the context of modern concerns.

## The Columbia River Treaty 2014/2024 Review

The coordinated operation of the many dams and reservoirs under the Columbia River Treaty has provided significant flood risk management and hydropower benefits for both the United States and Canada. The Treaty calls for two “entities” to implement the agreement, one for the U.S. and one for Canada.

The U.S. Entity, appointed by the president, consists of the BPA administrator and the Northwestern Division engineer of the U.S. Army Corps of Engineers. The Canadian Entity, appointed by the Canadian cabinet, is the British Columbia Hydro and Power Authority (BC Hydro).



# Memorandum

To: Idaho Water Resource Board  
From: Helen Harrington  
Re: IWRB Planning Program Update  
Date: May 3, 2013



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## Information

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The IWRB Water Resource Planning Committee will be meeting on May 8, 2013. Agenda items for the meeting include the Idaho State Water Plan and TV CAMP. A summary of that meeting will be presented at the May 17 meeting. Any recommendations made at the committee meeting will also be brought to the Board.

### Rathdrum Prairie Comprehensive Aquifer Management Plan Implementation

Implementation activities are proceeding with the RP CAMP Advisory Committee. The committee met on March 29, 2013 and discussed steps to take to implement the plan. The first recommendation from the committee is to prioritize the action items contained in the plan. Additionally, there was discussion about how to develop recommendations for funding requests.

The next meeting of the RP CAMP Advisory Committee is scheduled on May 28, 2013. The agenda will include a presentation by Dr. John Tracy, Idaho Water Resource Research Institute, which will discuss the interaction of water policy, management and science. The committee will apply this information to priority the RP CAMP action items and discuss research needs and projects for RP CAMP implementation.

# Memorandum

To: Idaho Water Resource Board  
From: Cynthia Bridge Clark  
Date: May 7, 2013  
Re: Status of Ongoing Storage Water Studies



The following is a status report on the water storage studies initiated by the Idaho Water Resource Board (IWRB). This memorandum describes progress since the last IWRB meeting in March 2013.

## Weiser-Galloway Project

Weiser River Geologic Investigation and Analysis Project (Geologic Investigation):

- The US Bureau of Reclamation (Reclamation) has completed core drilling and strength and materials testing of selected core and potential embankment materials. Results are published in the following reports: *2012 Field Investigations for Galloway Damsite, March 2013*; and *Results of Laboratory Physical and Engineering Properties Tests of Soil and Rock Core from the Proposed Galloway Damsite, Weiser, Idaho, April 2013*. The US Army Corps of Engineers (Corps) is incorporating the information into the geologic analysis and the reports will be included as appendices in the final report for the geologic investigation.
- The Corps presented initial results of the geologic investigation at the March IWRB work session and is now completing the evaluation of possible dam types, potential cost savings from the original Corps design, and is refining the project costs to reduce the contingency associated with previous estimates.
- Additional samples of potential embankment fill materials close to the damsite were collected for additional testing.
- Estimated timeline: Completion of the Geologic Investigation is scheduled for September 2013.

Snake River Operational Analysis Project (Operational Analysis):

- The Corps continues to develop the reservoir model and required inputs to evaluate a range of scenarios within the Snake River System. Development of operations alternatives is underway.
- Estimated timeline: Completion of the Operational Analysis is scheduled for spring 2014.

**REQUIRED ACTIONS:** No action is required by the IWRB at this time. Staff anticipates discussing possible next steps beyond the geologic and operational analyses with the IWRB's Storage Committee.

## Lower Boise River Feasibility Study

- The IWRB and the Corps began a partial feasibility study (Lower Boise River Interim Feasibility Study) on the Boise River in 2009. The Corps completed the *Water Storage Screening Analysis, August 2010*, which identified a raise or new dam at the existing Arrowrock Dam site as the top ranked potential project. Additional engineering analysis of potential fatal flaws at the Arrowrock Dam site was subsequently completed in October 2011: *Lower Boise River Interim Feasibility Study, Preliminary Evaluation of Arrowrock Site*. The analysis did not identify any geologic or engineering constraints that would make a

raise of the existing dam or construction of a new dam at the site unfeasible but identified additional issues that should be evaluated in order to better understand the viability of Arrowrock site.

- As required under the Corps new Planning Modernization Initiative, a four day planning charette to re-scope the Lower Boise Feasibility Study was held at the Corps Walla Walla District Office in early December 2012. A follow-up one-day team meeting was held on March 15, 2013. The meetings resulted in a preliminary list or array of alternatives for study that address both water supply and flood risk reduction in the Treasure Valley.
- In late March, the Corps project team reviewed the information generated during the initial charette with Headquarters in Washington DC (In-Progress Review). The Corps planning initiative and the 3x3x3 framework requires that three levels of management or “vertical team” (District, Division and Headquarters) remain involved throughout the feasibility study. The team received comments and the agreement on the path forward to continue the feasibility study.
- The next steps in the Corps planning process involve the collection of additional information about the preliminary alternatives and coordination with tribes and resource agencies in order to refine the array of alternatives.
- IDWR staff would like direction from the IWRB prior to development of the Project Management Plan (PMP) or scope of study. Staff recommends scheduling a presentation and discussion once the proposed final array of alternatives is available.
- The Corps does not yet know how much money will be available from 2013 appropriations to continue the project. The earliest that the re-scoping process and development of the Project Management Plan/Scope are likely to be complete is September 2013.

**REQUIRED ACTIONS:** No action is required by the IWRB at this time. A meeting to discuss the proposed scope of study will be scheduled at a later date.

### **Henry's Fork Basin Study**

- A draft interim report is complete and available for public review and comment. The report documents the process of identifying and screening water management alternatives in the Henry's Fork basin and includes the associated technical analyses. The report can be downloaded from the Basin Study website: <http://www.usbr.gov/pn/programs/studies/idaho/henrysfork/index.html> (a printed copy can be provided to IWRB members upon request).
- Reclamation has initiated the appraisal analysis of the short list of alternatives beginning with technical issues specific to each alternative and a refined analysis of the water available for storage.
- Reclamation will provide updates to the IWRB as the appraisal analysis progresses and will continue to report to the Henry's Fork Watershed Council and other stakeholders as requested. Reclamation is currently scheduled to participate in “open house” meetings hosted by the Henry's Fork Foundation and the Friends of the Teton River, and will meet with the Fremont Madison Irrigation District May 13-14, 2013.
- Estimated timeline: Completion scheduled for October 2013.

**REQUESTED ACTIONS:** The IWRB should begin considering how to move forward with potential projects identified in the Basin Study. Staff recommends discussing the topic at a storage committee meeting prior to completion of the study.

## **Minidoka Dam Raise Special Study**

- The US Bureau of Reclamation completed the Minidoka Dam Raise Special Study in May 2010, evaluating the structural raising of Minidoka Dam to accommodate a 5-foot rise in normal reservoir water surface elevation. Results from the study indicated the proposed dam raise was feasible and would result in an additional storage capacity of approximately 67,115 acre-feet and an average annual yield of 33,000 acre-feet. Estimated project costs were reported as follows:
  - Estimated cost to complete the spillway repair without the raise = \$50 million
  - Estimated cost to construct the dam raise = \$150 million
  - Most probable total project cost of the spillway repair and the raise = \$200,000 million
  - Estimated cost in 2010 dollars to construct the dam raise after completion of the spillway repair = \$205 million (increase of \$55 million from \$150 million)
- At the time the study was concluded, Reclamation was in the process of completing environmental compliance and design studies for the replacement of the existing spillway and moving forward with the bid process for construction. Given the overlap with the repair project, the IWRB determined that further action on the dam raise would be postponed.



# MEMO

**To:** Idaho Water Resource Board  
**From:** Brian Patton and Mat Weaver  
**Subject:** ESPA Management Update  
**Date:** May 5, 2013

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There are several items included in this ESPA management update:

- Early Season Recharge Report Page 2
- Presentation on Full Scale Testing of the Mile Post 31 Managed Recharge Site Page 5
- Status Report on Project Proposals Through the IWRB's AWEPP Partnership with NRCS including the A&B Pipeline Project Page 19

In addition, in Tab 14-a of your workbook is a memo and resolution concerning the proposed Walcott Recharge Site.

# Memorandum

To: Idaho Water Resource Board  
 From: Neal Farmer  
 Date: May 2, 2013  
 Re: 2013 Early-Season Recharge Update



## Introduction

This memo is intended to provide a brief summary of early-season 2013 recharge.

## Early-Season 2013 Recharge Summary

Due to low water supplies, recharge could only be done below Minidoka Dam in the spring of 2013; even then it was only for a short duration. The number of participating entities in the lower valley was limited for a host of reasons. North Side Canal Company could not participate because of maintenance and new construction activities. The Big Wood Canal Company was required to lower the level in Magic Reservoir last fall to facilitate repairs on the dam, which in turn left no water available this spring for recharge. Southwest Irrigation District was able to do some recharge, it was limited however due to ongoing repairs associated with damage that occurred during their late season recharge operations in 2012. Fortunately, American Falls Reservoir District No. 2 was able to accomplish some recharge in the Milner-Gooding canal. Their recharge allowed us to test the new Mile Post 31 aquifer recharge site facilities and represented the bulk of accomplished recharge to date. Construction of the new turn-out structure was barely completed in time to accommodate the small window of water supply availability. However we were able to accomplish some recharge at the new site. A summary table is included with this memo providing total acre-feet of water recharged as well as the wheeling costs associated with recharge for each of the partnering entities.

## Mile Post 31 Information

The following is a detailed timeline of events for Mile Post 31 with a map showing the peak pool level and sink locations.

- **March 26<sup>th</sup> (Tuesday morning)** - Twin Falls CC turns off main gates to allow for a test at Mile Post 31 on the Milner-Gooding Canal. Water starts to flow past the main Milner-Gooding Canal gates and it takes approximately 24 hours for water to travel the 31 miles of canal to the site.
- **March 27<sup>th</sup> (Wednesday)** - By approximately 11 am canal water builds behind the check dam and starts to flow through gates into the MP31 canal spill/aquifer recharge site. By 2 pm a lake was forming in the basin floor with thick soils and natural rock sinks and water is spilling over the check structure. Numerous individuals are present to inspect the event including Pete Van Der Meulen. LSARD staff collected water samples from 2 monitor wells and the canal water. Water level loggers are deployed in each of the monitor wells and I've been waiting for a week or so before I go download the loggers to see if there is a

response in the proximal groundwater table. The water table is about 300 feet below land surface which provides 300 vertical feet of filtration in the unsaturated zone and no clay or sediments were noted in the geologic log for the nearest monitor well to cause perching conditions ("east well" D0000955). This will be interesting to view the data from the water level logger and I will be visiting the wells again this week to download data and more GPS work.

- **March 28<sup>th</sup> – (Thursday)** Water is spilling into the basin at a full discharge of approximately 200 cfs (revised estimate since last email) and lake is continuing to build. The main gates Milner show a flow rate of 509 cfs (from Lynn Harmon). Water is spilling over the check structure at MP31.
- **March 29<sup>th</sup> – (Friday morning)** The main gates for Milner-Gooding Canal are turned off and North Side C.C. starts filling Wilson Lake. Bert Stevenson visits the site and water continues to discharge into the MP31 site all day Friday. Peak pool level is GPS'd which takes about 3 hours, the lake outline is approximately 3.9 miles long with an area of approximately 81.4 acres. The pool elevation is approximately 4,055 feet. In the map shown below, there are at least 20 natural rock sinks mapped and a few with their approximate inundation depth based on GPS data. If the pool level had risen a few more feet the lake would have extended to the Northeast at the "break out point" into another basin area.
- **March 30<sup>th</sup> – (Saturday 11 am)** Bert Stevenson visited the site and provided important observations that I was not able to make... *"Neil I went down and look at the sight again this morning about 11:00 am and the water was still running, it was about 1/2 way up on the front side of the headgate but was still shooting out a lot of water. The Structure across the main canal was down to where at least 1 foot was showing above the water, nothing going past. The lake looked like it had started to drop a little. I plan to go down again tomorrow evening or Monday morning and I will give you a report then. Thank for letting me tag along on Friday. Bert"* It is estimated that water stopped discharging into the spill site from the canal by about midnight on Saturday the 30<sup>th</sup>.
- **April 1<sup>st</sup> – (Monday)** Dave Blew and I inspect the site conditions in the morning and walk the perimeter of the lake. My visual estimate is that the lake size has decreased by at least 50% and maybe 2/3 from Friday afternoon. We were able to identify numerous natural sinks. One rock fracture was observed taking water and it was videotaped. By Monday afternoon Bert had made another site monitoring visit and reports (email is from Tuesday 2nd)...*"Neal I went down to the site yesterday afternoon about 3:00 PM and there was no water running into the pond, in fact the water just below the turnout had all disappeared and it looked like the pond out farther had gone down some...Thanks for sharing with the info. Bert"*

### Early-Season 2013 ESPA Managed Recharge

Canal	Acre- Feet	cost \$
ASCC	0	0
FMID	0	0
GFCC	0	0
SFAC	0	0
<b>Total Above AmFls</b>	<b>0</b>	<b>0</b>
AFRD2	2,901	8,703
NSCC	0	0
SWID	301	903
<b>Total Below Am. Falls</b>	<b>3,202</b>	<b>9,606</b>
<b>TOTAL Snake River</b>	<b>3,202</b>	<b>9,606</b>
Big Wood River	Acre- Feet	cost \$
BWCC	0	0
<b>TOTAL Snake+Wood</b>	<b>3,202</b>	<b>9,606</b>
<b>% above Am Fls</b>	<b>0</b>	<b>0</b>
<b>% below Am Fls</b>	<b>100</b>	<b>100</b>



# IDAHO

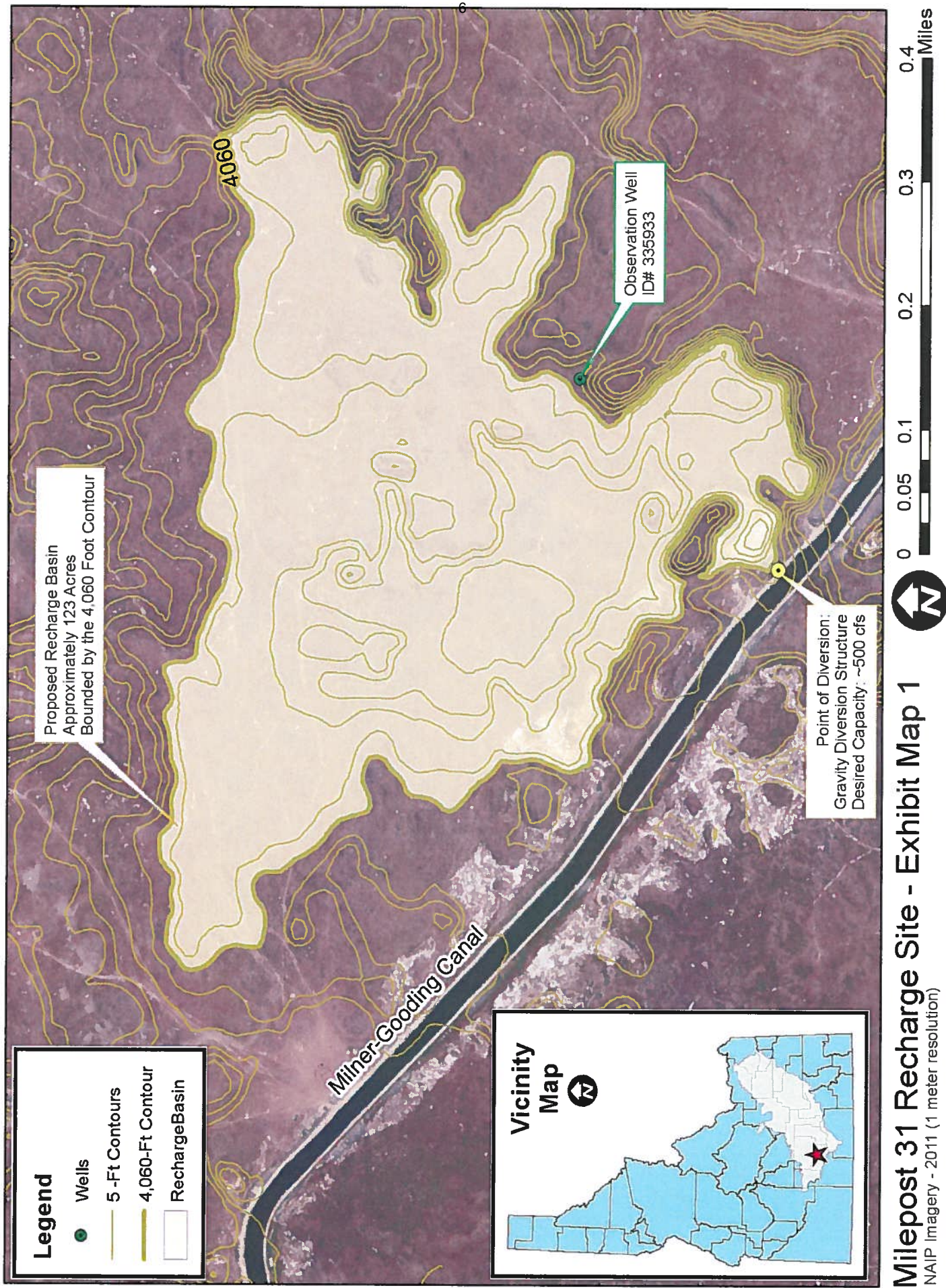
Water Resource Board

## IWRB Managed Recharge Program Milepost 31 Recharge Site March-April 2013

Mathew Weaver  
May 17, 2013







Proposed Recharge Basin  
Approximately 123 Acres  
Bounded by the 4,060 Foot Contour

Observation Well  
ID# 335933

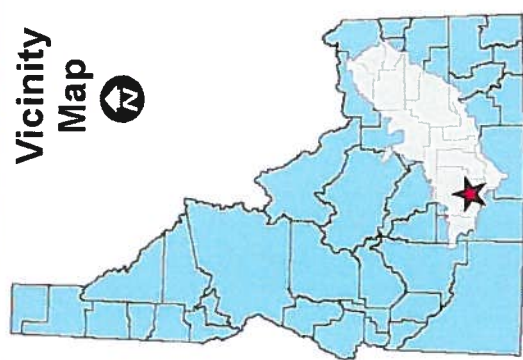
Point of Diversion:  
Gravity Diversion Structure  
Desired Capacity: ~500 cfs

Milner-Gooding Canal

**Legend**

- Wells
- 5-Ft Contours
- 4,060-Ft Contour
- Recharge Basin

**Vicinity Map**



**Milepost 31 Recharge Site - Exhibit Map 1**

NAIP Imagery - 2011 (1 meter resolution)





- Water Diverted into Milner Gooding Canal March 26-30

- Water reached MP31 turnout on March 27

- Water was diverted to test the MP31 recharge facilities and the integrity of canal bank post-construction

- Estimate Diversion Capacity into MP31 Basin at approximately 200-250 cfs

- Able to recharge approximately 2,862 AF

## Water Rights Accounting Data 13086530 Res. Dist. #2 Canal

Date	CFS	AF/Day
3/25/2013	0	0
3/26/2013	209	414
3/27/2013	494	979
3/28/2013	498	986
3/29/2013	233	460
3/30/2013	12	23
3/31/2013	0	0
4/1/2013	0	0
$\Sigma =$		2,862



**IDAHO**  
Water Resource Board

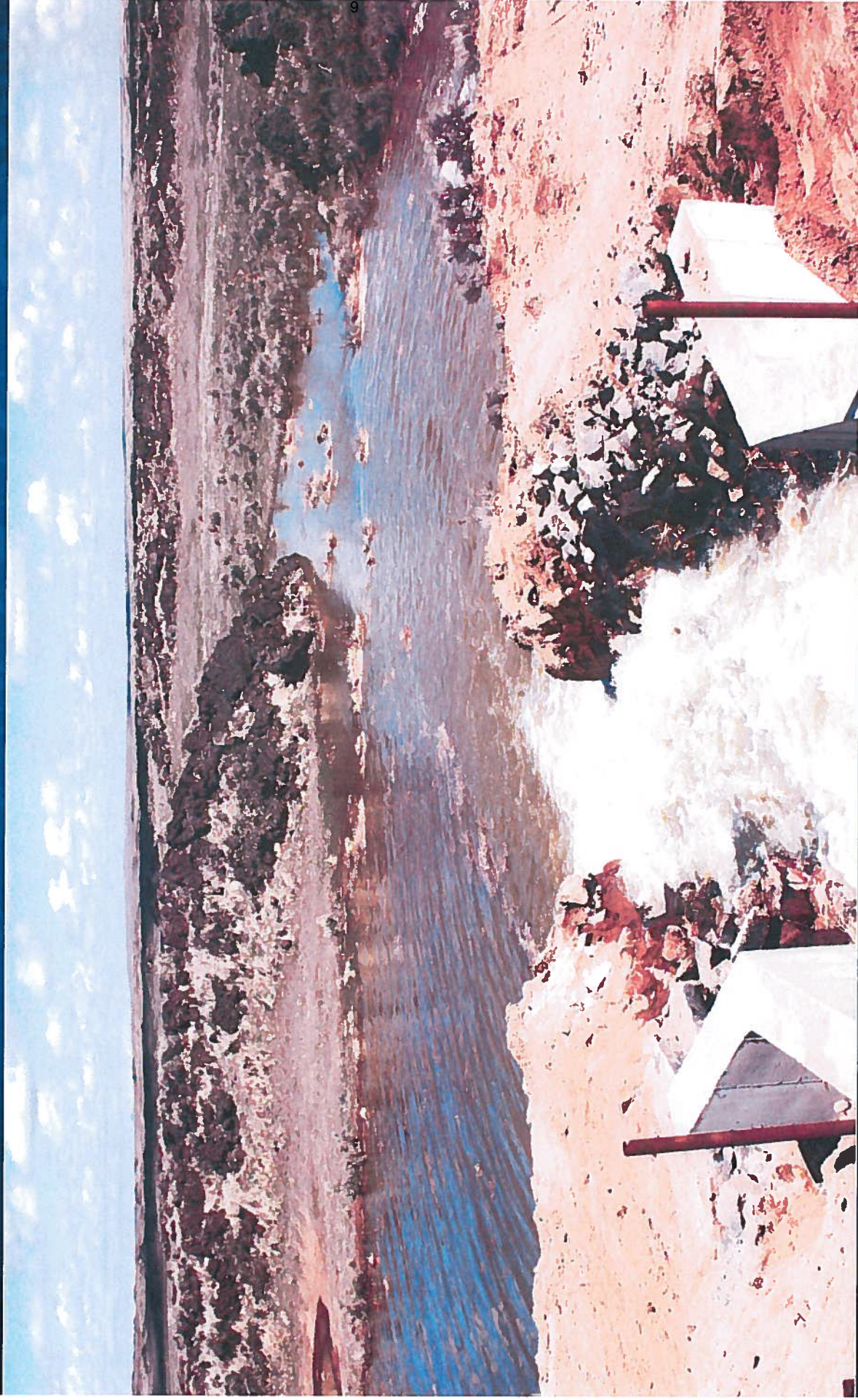
**Delivery to MP31 Began  
Wednesday March 27**





**IDAHO**  
Water Resource Board

Thursday March 28,  
200-250 cfs (full discharge)





# IDAHO

Water Resource Board

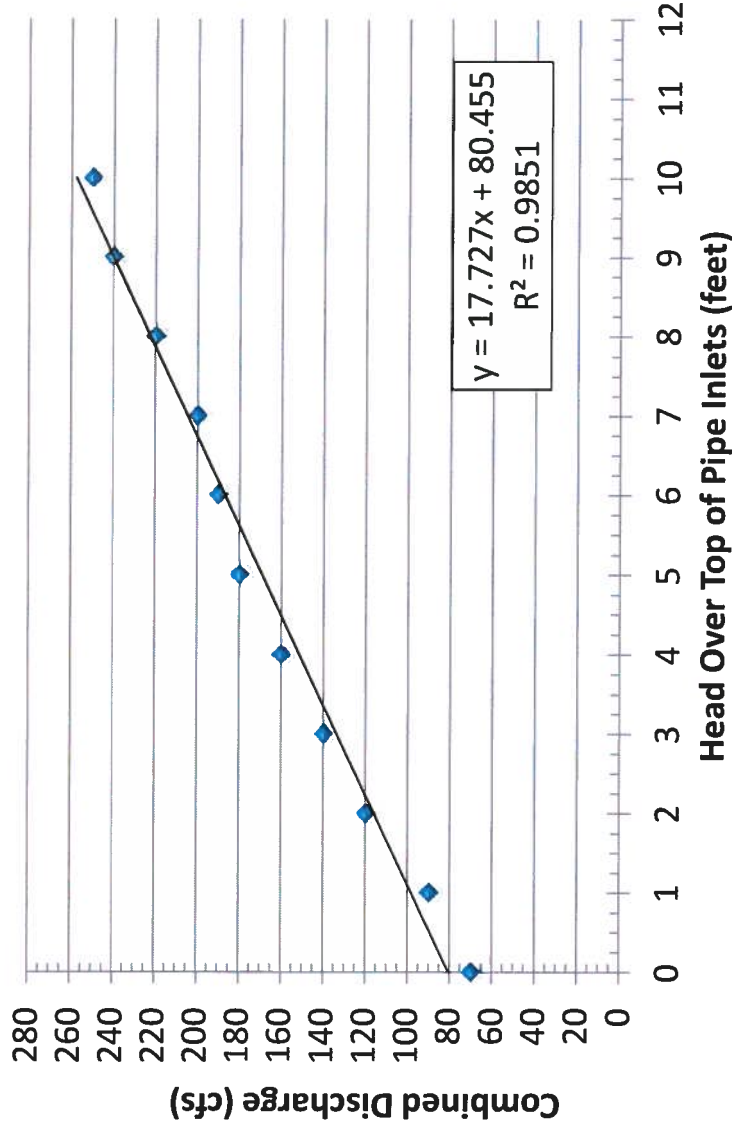
Thursday March 28,  
200-250 cfs (full discharge)







## MP31 Discharge - Assuming Inlet Control Relationship



### MP31 Discharge Calculator (cfs)

Top of Check Dam:	92.32	feet
Head over Check Dam:	15	inches
West Pipe Crown:	84.52	feet
East Pipe Crown:	84.46	feet
West Pipe Head:	9.05	feet
East Pipe Head:	9.11	feet
Average Head:	9.08	feet
Combined Discharge:	241.4	cfs

# IDAHO

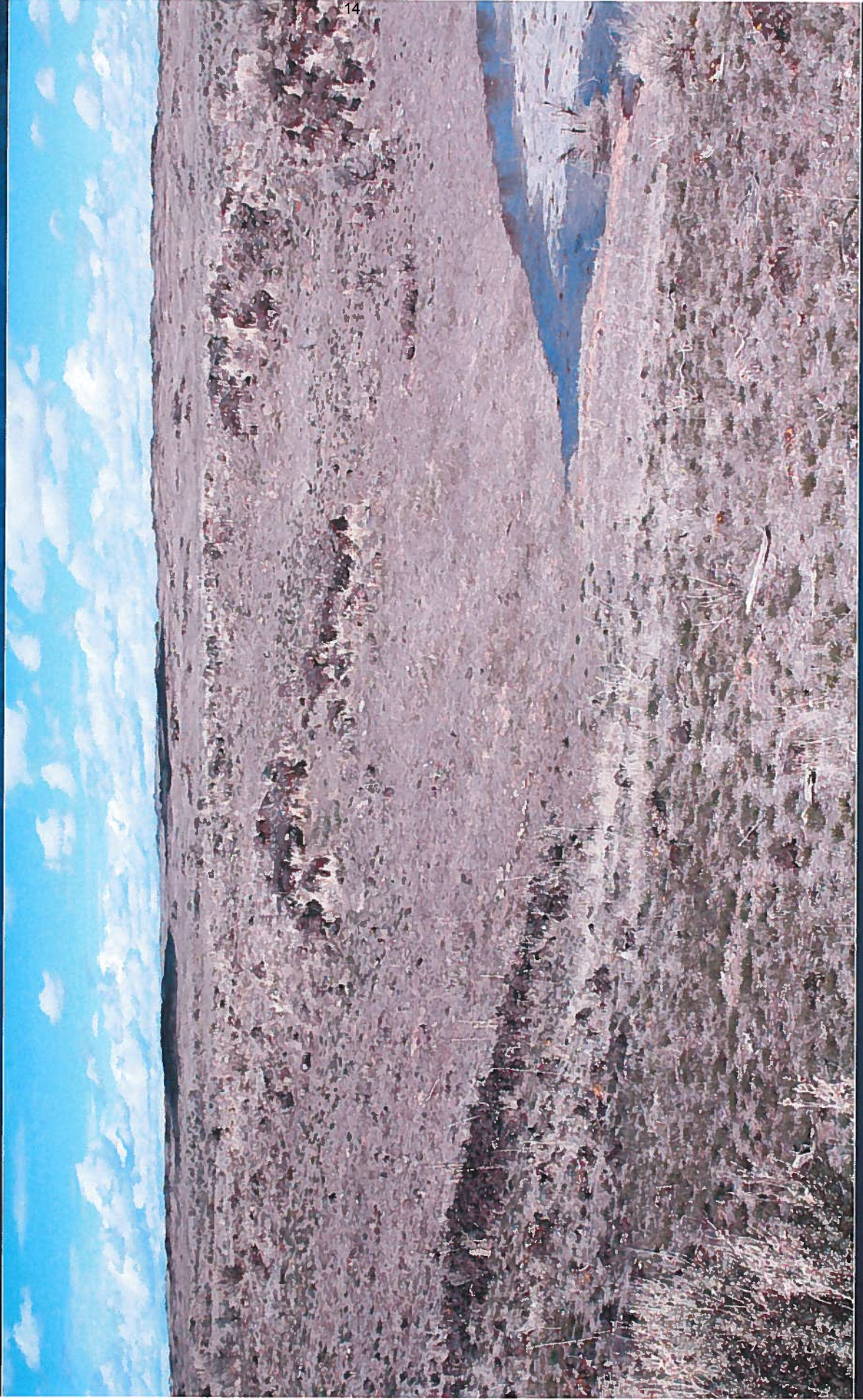
Water Resource Board







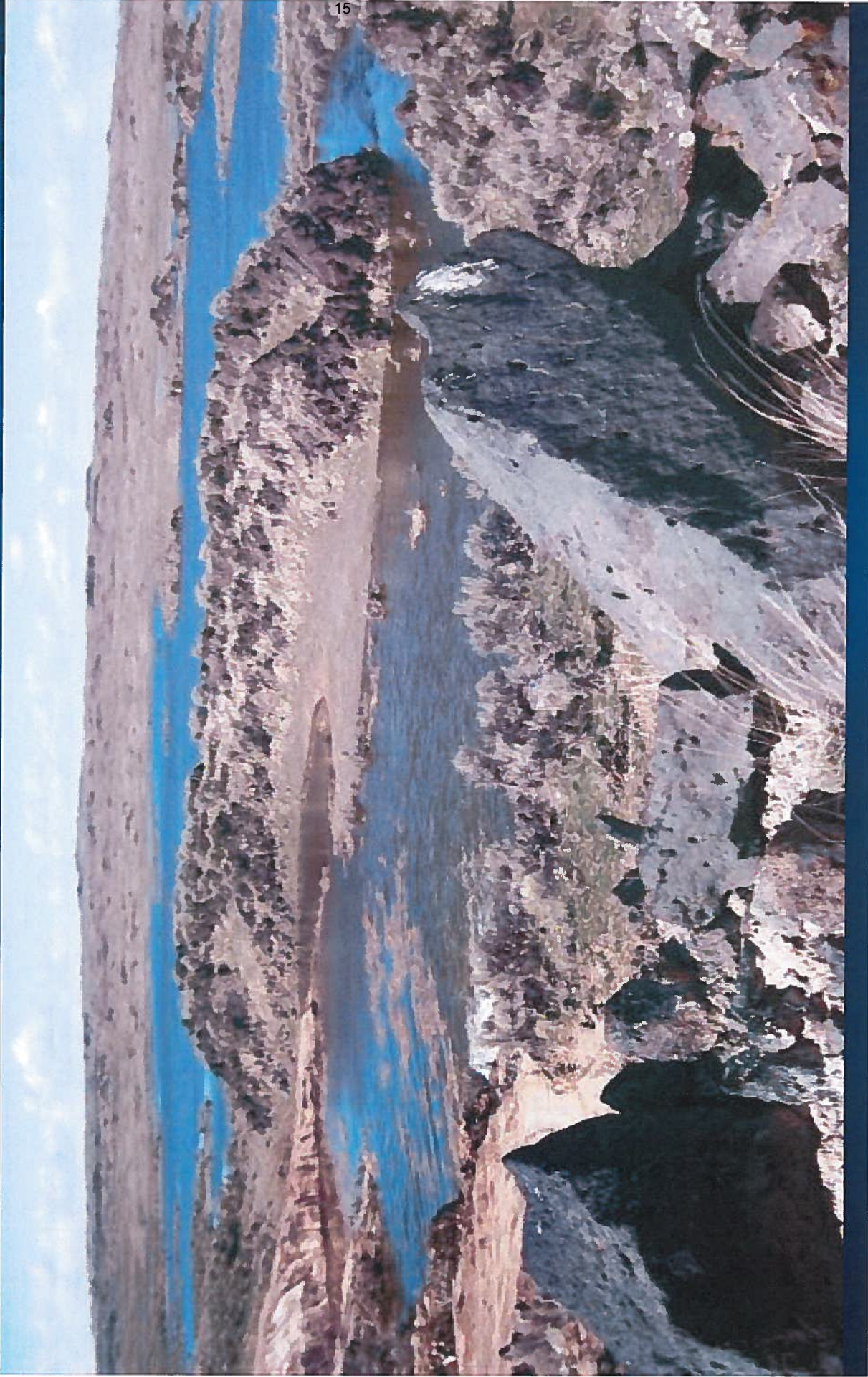






**IDAHO**  
Water Resource Board

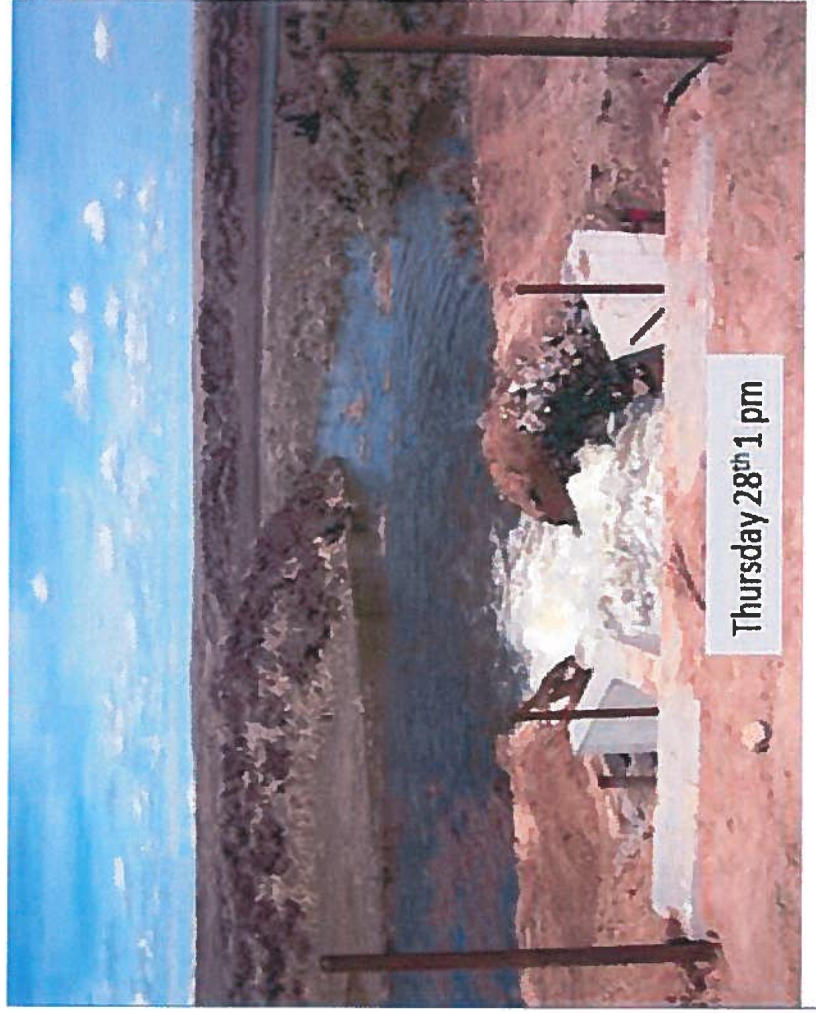
Peak Pool Level  
Friday March 29





# IDAHO

Water Resource Board

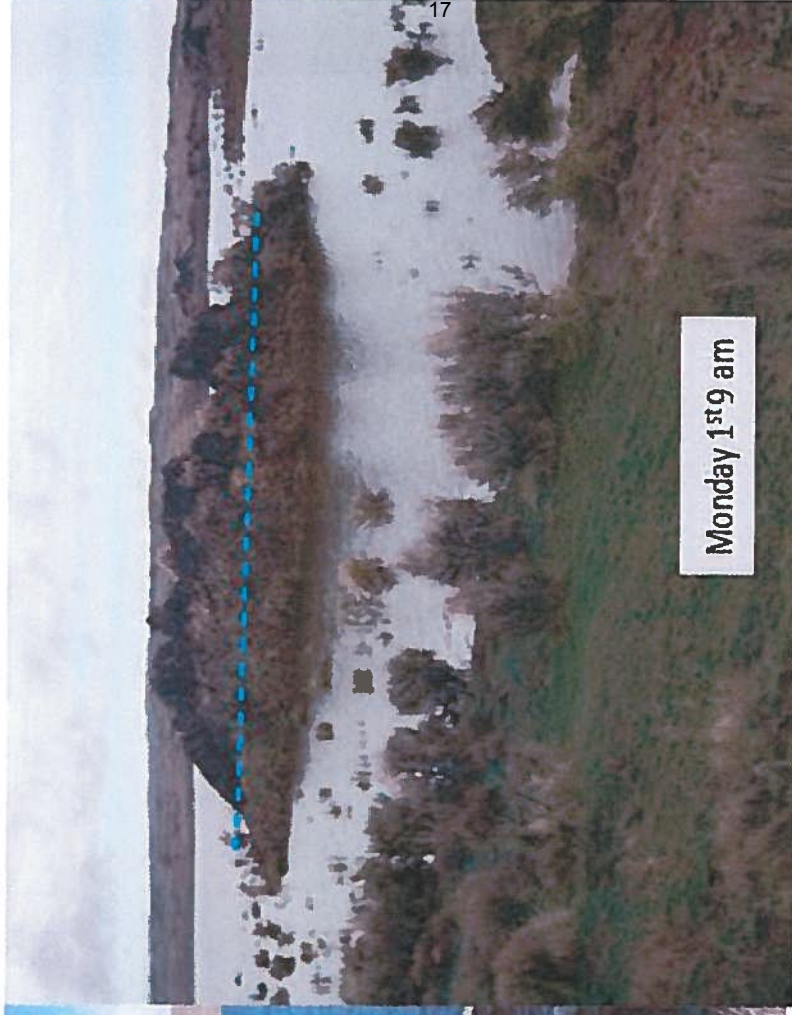
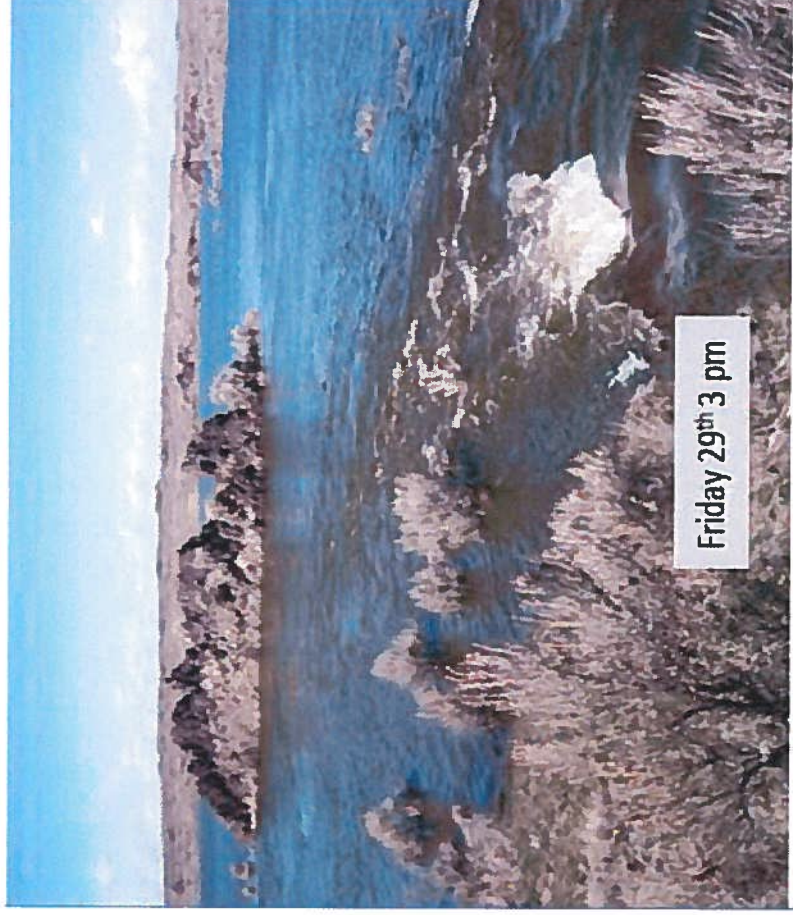


Thursday 28<sup>th</sup> 1 pm



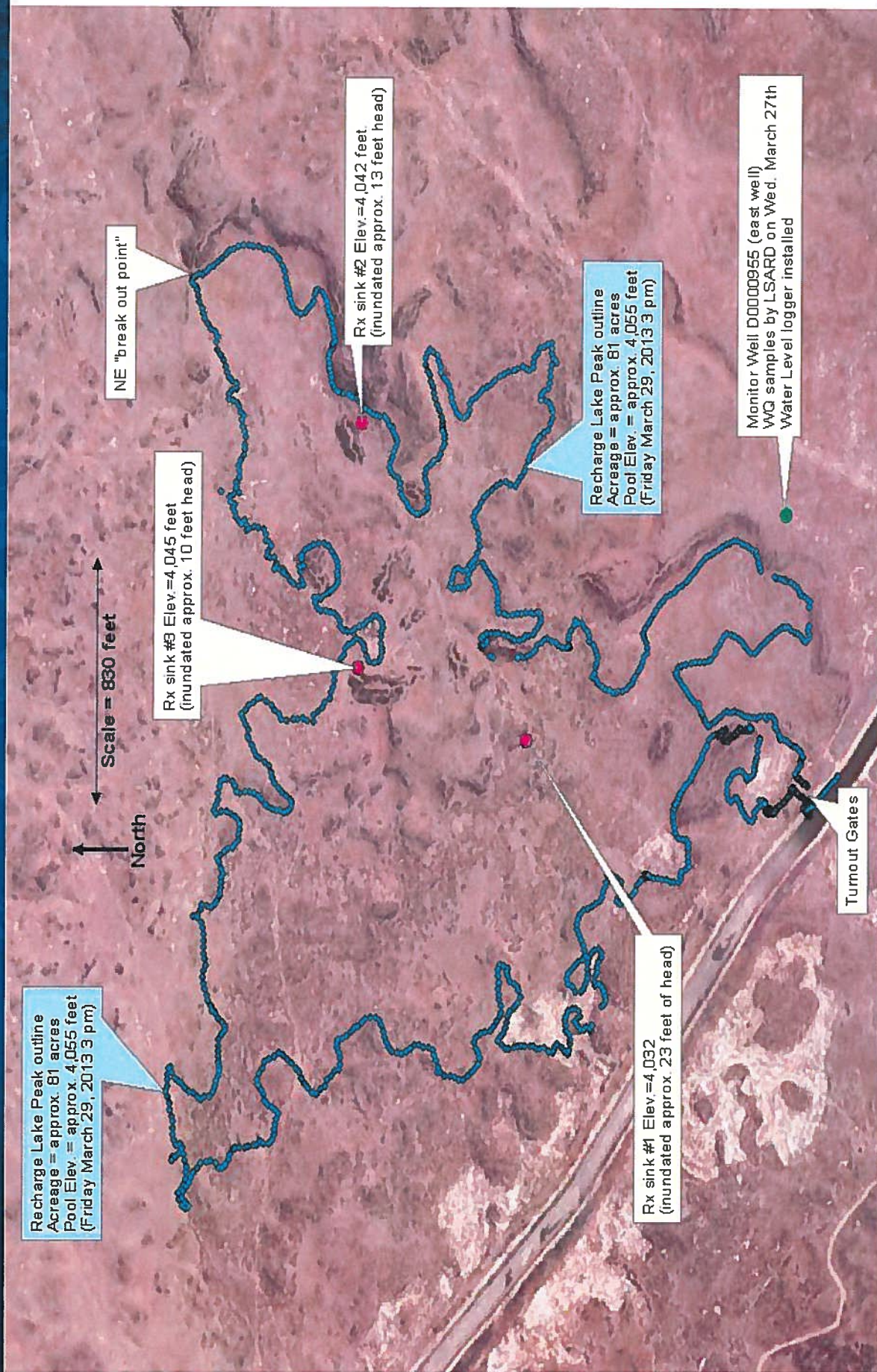
Monday 1<sup>st</sup> 9 am





Pool at full level on Friday March 29<sup>th</sup> compared to Monday April 1<sup>st</sup>. Discharge into the site from the canal was completed midnight Saturday March 30<sup>th</sup>.







TO: Idaho Water Resource Board  
FROM: Neeley Miller  
DATE: May 3, 2012  
RE: Status Report – 2013 NRCS AWEPP Projects

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### **Introduction**

The Idaho Water Resource Board (IWRB) was awarded approximately \$5 million for the Agricultural Water Enhancement Program (AWEPP) in 2013. This memo is intended to provide a brief summary of the IWRB AWEPP projects proposed to the Natural Resources Conservation Services (NRCS) for 2013. All applicants wishing to participate in the practice were required to have their submittals in to the NRCS by March 15, 2013. The Department is required to conduct water right review analysis of all applications. We have until June 1, 2013 to complete our review.

There were fifty-six applications submitted to NRCS this year. Thirty-two applications are associated with the proposed A&B conversion project located in Minidoka County. Three groundwater to surface water conversion projects are proposed for Gooding County. Additionally, three water savings projects have been proposed in Gooding County. Approximately, thirteen of the proposed projects are pursuing demand reduction through conversion to dry land agriculture in Teton, Power, Minidoka and Fremont Counties. We are still waiting to receive details from NRCS on five additional proposed projects in Gooding County and Jefferson County.

### **Ground Water-to-Surface Water Conversion Projects**

Applications for four groundwater to surface water conversions projects have been submitted to the NRCS for AWEPP consideration. Three of the groundwater to surface water conversion projects are located in Gooding County. Staff is currently reviewing the water rights associated with these projects to determine if they are eligible to proceed forward for funding.

The largest of the four proposed projects is located in the west portion of the A&B Project in Minidoka County and proposes the soft conversion of approximately 1,368 acres from groundwater to surface water. This project will also allow for A&B to supply surface water to 994 acres that were previously converted from ground water to surface water due to declining groundwater levels, but to which they have had difficulty reliably delivering surface water. In addition, the project will alleviate some delivery issues within Unit A. The A&B Irrigation District is proposing that the converted acres be supplied with surface water associated with their storage water rights. The A&B project also includes a pump station and 11.5 mile pipeline with a diversion capacity of approximately 70 cfs. If completed, the A&B conversion project will be the second largest conversion project funded through the AWEPP program. Staff review and analysis has not occurred at this time, but I anticipate we should have the review

concluded by the June 1, 2013 NRCS deadline. Please refer to the attached exhibit map which depicts the proposed A&B Project.

#### **Below-the-Rim Water Savings Projects**

Application for three water savings projects have been submitted to the NRCS for AWEPP consideration. Two of the projects are located in the Hagerman area and one is located approximately seven miles northeast of Gooding, ID. All three projects propose delivery and diversion improvements to increase irrigation efficiencies thereby reducing water demand. Staff has completed a water right review on these projects and determined that two proposed projects in the Hagerman area are eligible for funding.

#### **Demand Reduction – Conversion to Dry land/End Gun Removal Plan**

Three applications for end gun removal were submitted: one from Fremont County, one from Power County, and one from Minidoka County. In addition, applications for nine traditional conversion to dry land agriculture projects were submitted in Teton County. Staff water right review and analysis of these projects has not yet occurred, but should be completed by mid-May.



## A&B Irrigation District

- Soft Conversions serviced by New Pipeline - 1366.7 ac
- ▨ Area previously converted from GW to Surface supplied by New Pipeline - 994 ac
- Surface Irrigated supplied by New Pipeline



# IDAHO WATER RESOURCE BOARD

**C.L. "Butch" Otter**  
Governor

April 23, 2013

**Roger W. Chase**  
Chairman  
Pocatello  
District 4

Jeff Burwell, State Conservationist  
USDA- Natural Resources Conservation Service  
9173 W. Barnes Drive, Suite C  
Boise, ID 83709

RE: A&B Surface Water Enhancement Project

**Peter Van Der Meulen**  
Vice-Chairman  
Hailey  
At Large

Dear Jeff,

**Bob Graham**  
Secretary  
Bonners Ferry  
District 1

Staff for the Idaho Water Resource Board (IWRB) has reviewed the layouts for the proposed A&B Surface Water Enhancement Project (A&B Pipeline). The IWRB fully supports undertaking the A&B Pipeline under the IWRB's Agricultural Water Enhancement Program (AWEP) agreement with the NRCS. It is the IWRB's highest-priority project in this last year of the current AWEP agreement. In addition, if needed by the A&B Irrigation District, I believe the IWRB would approve a loan to finance the balance of project costs.

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

We understand that the pipeline would 1) allow the "soft conversion" from ground water to surface water of about 1,367 acres, 2) provide an additional delivery system to about 1,000 acres of land that A&B has already converted on its own initiative in response to declining ground water levels but to which A&B has difficulty delivering surface water, and 3) firm up surface water deliveries in parts of their existing surface water unit.

**Vince Alberdi**  
Kimberly  
At Large

We want to express our appreciation for the professionalism and enthusiasm of your staff in helping the state and the water users undertake some major projects to help meet our water management goals, including the A&B Pipeline and the Hazelton Butte Project. We look forward to continuing to cooperate with the NRCS in the future.

**Jeff Raybould**  
St. Anthony  
At Large

Please contact me should you have any questions.

**Albert Barker**  
Boise  
District 2

**John "Bert" Stevenson**  
Rupert  
District 3

Sincerely,

Brian Patton, P.E.  
Acting Administrator

CC: Dan Temple, A&B Irrigation District  
Travis Thompson, Barker, Roshalt & Simpson





# MEMO

**To:** Idaho Water Resource Board  
**From:** Brian Patton and Mat Weaver  
**Subject:** Walcott Managed Recharge Site  
**Date:** May 5, 2013

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Hydrologic modeling indicates that additional managed recharge capacity is needed below American Falls Reservoir, and that the Walcott Managed Recharge Site is an excellent place to store water long-term in the ESPA. The IWRB toured the proposed project site last summer. The recharge site would consist of a 100 cfs pumping plant on the north shore of Lake Walcott, a 3,600-foot long pipeline carrying water to a series of injection wells to be located on state lands. The Magic Valley Ground Water District has been issued a permit for the 1<sup>st</sup> injection well. The project has been estimated at \$2 million.

The A&B Irrigation District and the Magic Valley Ground Water District (Districts) are proposing move forward with development of this recharge site. The next step is to conduct the preliminary engineering and environmental studies needed to 1) secure permission to cross the wildlife refuge, 2) further define the project and project elements, 3) provide a cost estimate sufficient to determine whether to proceed with construction of the project.

The Districts are retaining CH2M-Hill to undertake the engineering and environmental studies. CH2M-Hill is currently preparing a proposal for this work and will be complete in time for the IWRB meeting.

The Districts are proposing that the IWRB cost share 40% (IWRB):60% (Districts) on the engineering and environmental studies. If a decision is made to proceed upon completion of the studies, the same cost-share split is proposed for construction. This is consistent with the cost sharing on the engineering and construction at the Mile Post 31 Recharge Site, and with the cost sharing for the engineering studies at the Egin Lakes Recharge Enlargement Study.

Background materials are attached, including an "executive briefing" and a presentation of water supply conditions for recharge at the project site.

Although the preliminary cost estimate for the project is somewhat high at \$2 million, this recharge site would have several advantages. It would have a direct diversion from the river without having to wheel water down a canal first. It would be built to allow winter-time operations, allowing recharge during the winter when the IWRB's recharge right is in priority.

Should the IWRB wish to proceed, a resolution authorizing 40:60 cost sharing for the engineering and environmental studies for the Walcott Managed Recharge Site from the Secondary Aquifer Fund is attached.

## BEFORE THE IDAHO WATER RESOURCE BOARD

IN THE MATTER OF THE	)	A RESOLUTION TO ALLOCATE
EASTERN SNAKE PLAIN AQUIFER	)	FUNDS
MANAGED RECHARGE PROGRAM	)	
WALCOTT RECHARGE SITE	)	
_____	)	

WHEREAS, the Eastern Snake Plain Aquifer Comprehensive Aquifer Management Plan (ESPA CAMP) was approved in 2009 by the Legislature and Governor Otter through House Bill 264; and

WHEREAS, Phase 1 of the ESPA CAMP established a goal of implementing a managed aquifer recharge program for the ESPA designed to recharge 100,000 acre-feet of natural flow water on an average annual basis; and

WHEREAS, the IWRB desires to accomplish the Phase 1 ESPA CAMP goal for managed recharge and optimize the benefits of managed recharge in the ESPA;

WHEREAS, in order to optimize the benefits of ESPA managed recharge, hydrologic modeling indicates that additional recharge capacity is needed below American Falls Reservoir;

WHEREAS, the A and B Irrigation District and the Magic Valley Ground Water District (Districts) are proposing the development of a large-scale managed recharge site on state lands north of Lake Walcott, which would provide additional recharge capacity American Falls Reservoir.

NOW THEREFORE BE IT RESOLVED that the IWRB approves the expenditure of a total of \$\_\_\_\_\_ from the Secondary Aquifer Planning, Management, and Implementation Fund (Secondary Fund) to assist the Districts with engineering studies and environmental studies associated with the Walcott Managed Recharge Site, however this expenditure shall not exceed 40% of actual engineering and environmental study costs.

BE IT FURTHER RESOLVED that the Districts shall provide the balance of the engineering and environmental study costs.

BE IT FURTHER RESOLVED that the IWRB will consider the allocation of funds for construction of the Walcott managed Recharge Site after reviewing the results of the engineering and environmental studies.

DATED this 17<sup>th</sup> day of May, 2013.

\_\_\_\_\_  
 ROGER CHASE, Chairman  
 Idaho Water Resource Board

ATTEST \_\_\_\_\_  
 BOB GRAHAM, Secretary

## PROPOSED LAKE WALCOTT GROUND WATER RECHARGE PROJECT

### EXECUTIVE BRIEFING



The Eastern Snake Plain Aquifer Comprehensive Aquifer management Plan (ESPA CAMP) was approved by the 2009 legislature and signed into law by Governor Otter as the state's long-term plan for managing the ESPA. One of the major strategies identified by the ESPA CAMP is ground water recharge. Recent recommendations to the Board of prioritized recharge locations have identified the **Lake Walcott** site as being ranked **second overall in providing the most benefit to aquifer storage**. Modeling indicates that **43%** of all water recharged at the Lake Walcott site will be retained by the aquifer 10 years after the recharge activity, this ratio of retention was second only the Southwest Irrigation District recharge sites.

Currently the Lake Walcott Recharge Site is being championed by the Magic Valley Ground Water District (MVGWD) as a means of providing added storage to the aquifer and increasing reach gains to select locations. Preliminary estimates have identified a **total cost of \$2,000,000** associated with this project. In order for this project to be viable the MVGWD has indicated that a **minimum of 30,000 acre-feet of recharge** will be required on an average annual basis. Currently this project is still in the due diligence phase as the MVGWD works through two remaining obstacles: (1) right-of-way agreements with the U.S. Department of Fish and Wildlife, and (2) subordination of the Minidoka Hydropower water right to recharge at this location. Refer to the attached Exhibit Map 1 for an illustration of the proposed project.

Magic Valley Ground Water District is assuming a **60:40 cost sharing split** with the Idaho Water Resource Board. There is potential for the identification of additional participants, but at this time the cost sharing partnership includes only the Board and the MVGWD. Proposed funding split:

- Idaho Water Resource Board: \$800,000
- Magic Valley GW District: \$1,200,000

#### Project Facts

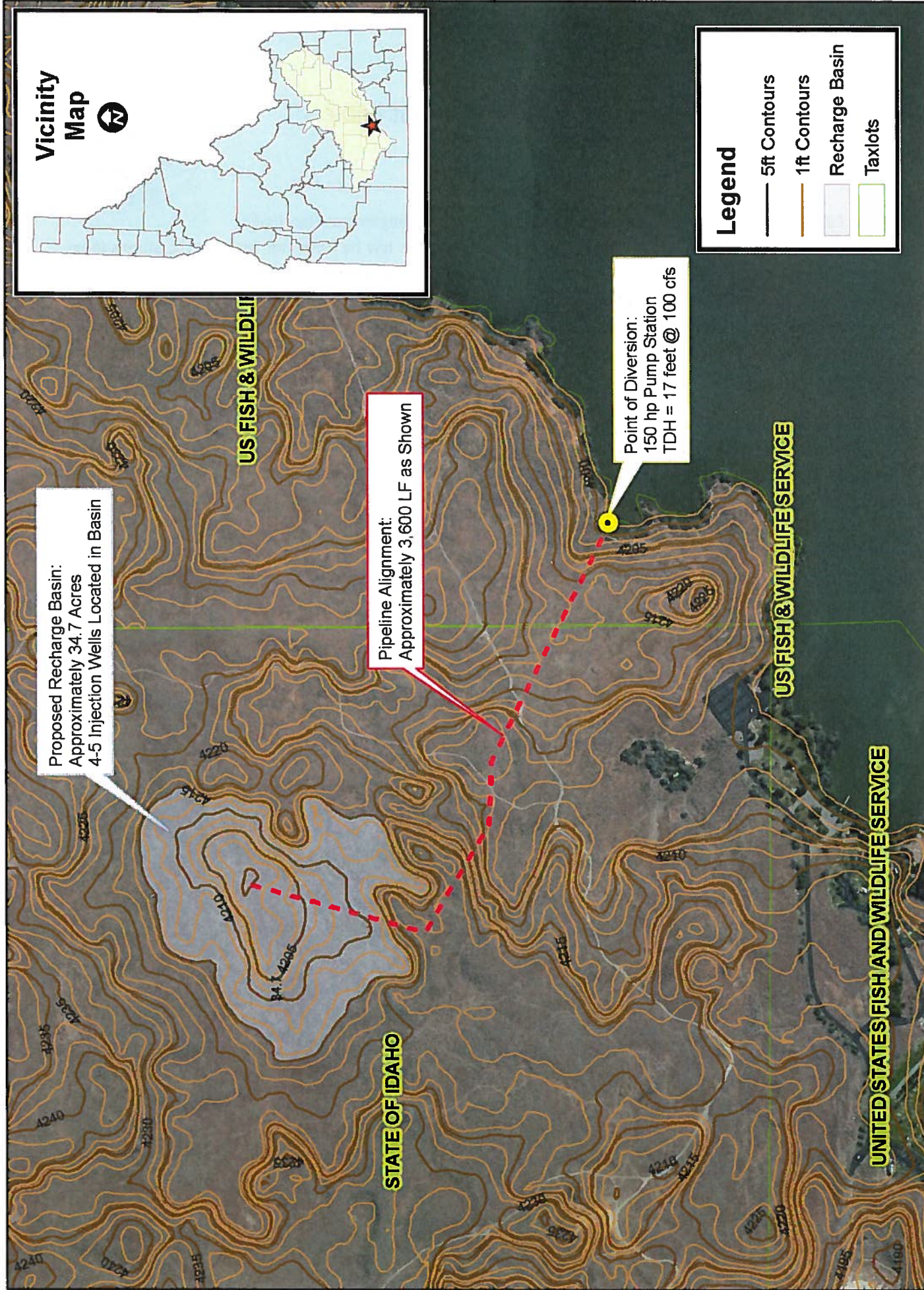
- ✓ Annual Target Recharge Volume: 30,000 acre-feet
- ✓ Proposed Diversion Rate: 100 cfs
- ✓ Number of Days Required for Recharge: 150 days
- ✓ Proposed 150 hp pump station
- ✓ ~3,600 LF of Conveyance Pipeline Proposed
- ✓ Proposed 34 acre Recharge Basin
- ✓ 4-5 Injection Wells Proposed
- ✓ Proposed Ground Water Monitoring at Two Locations



Figure 1 - Regional Vicinity Map of the Lake Walcott Recharge Site (red star)

(over)

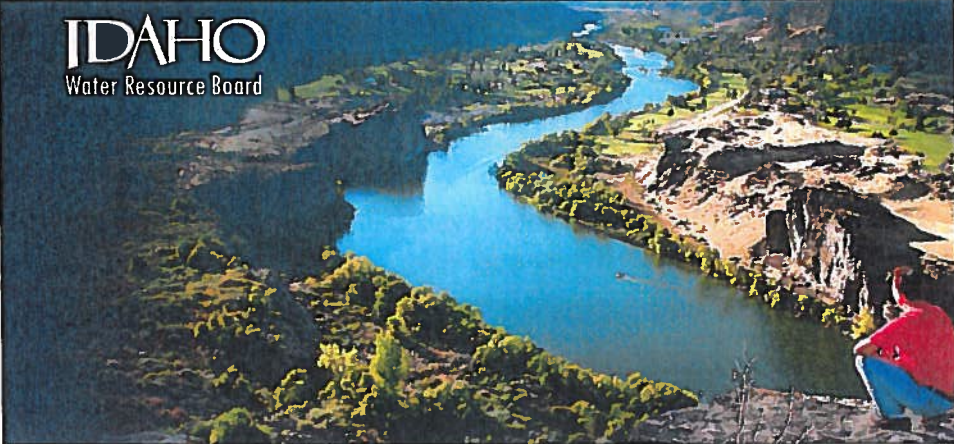




Lake Walcott Recharge Site - Exhibit Map 1

Imagery from Bing Maps, circa 2011. [www.microsoft.com/maps](http://www.microsoft.com/maps)


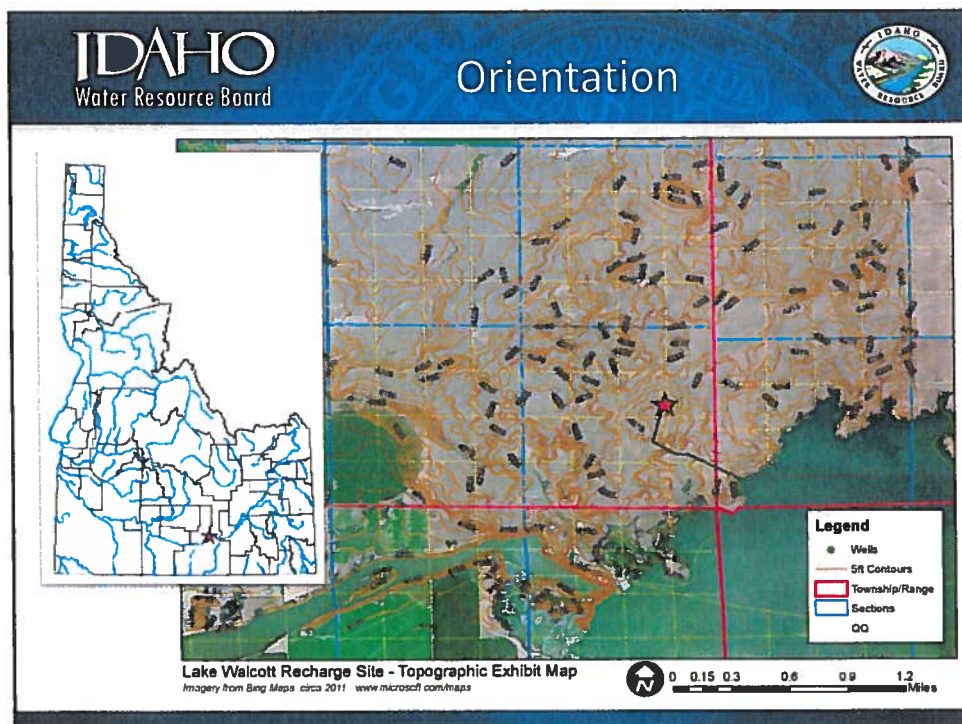




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Water Resource Board

## Water Supply and Priority Date Considerations for Recharge at the Proposed Lake Walcott Recharge Site

Mathew Weaver  
March 21, 2013





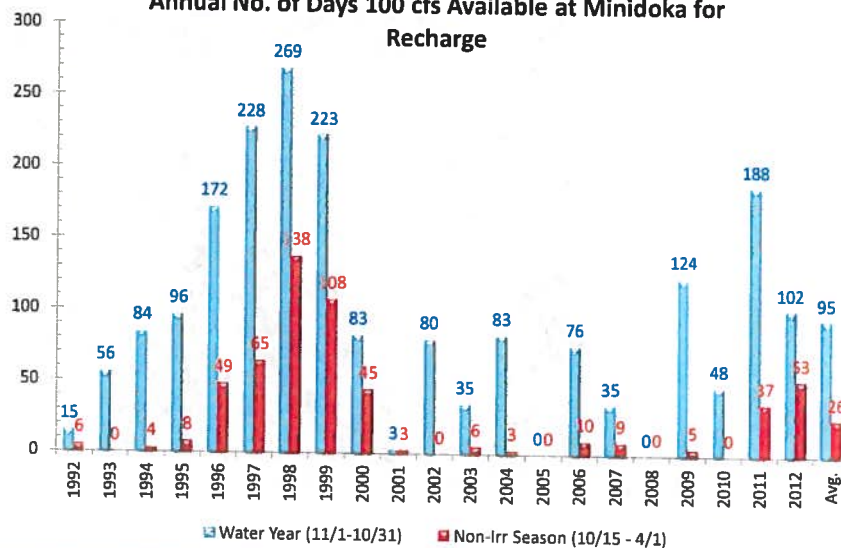
## Analysis Considerations of Water Availability for Recharge at the Proposed Lake Walcott Recharge Site

1. Priority Date is Satisfied When Items 2, 3, & 4 are enforced.
2. Criteria 1: Q @ Minidoka  $\geq 2,800$  cfs (@ MINI)
3. Criteria 2: Q @ Milner  $\geq 100$  cfs (Q @ MILI)
4. Correct Q @ Milner (i.e. spills) for Bureau Flow Augmentation, IPCo Storage Releases, and Reach Gain Accruals Downstream of the Minidoka Dam
5. Period of Analysis: 1992 – 2012 (20 years)

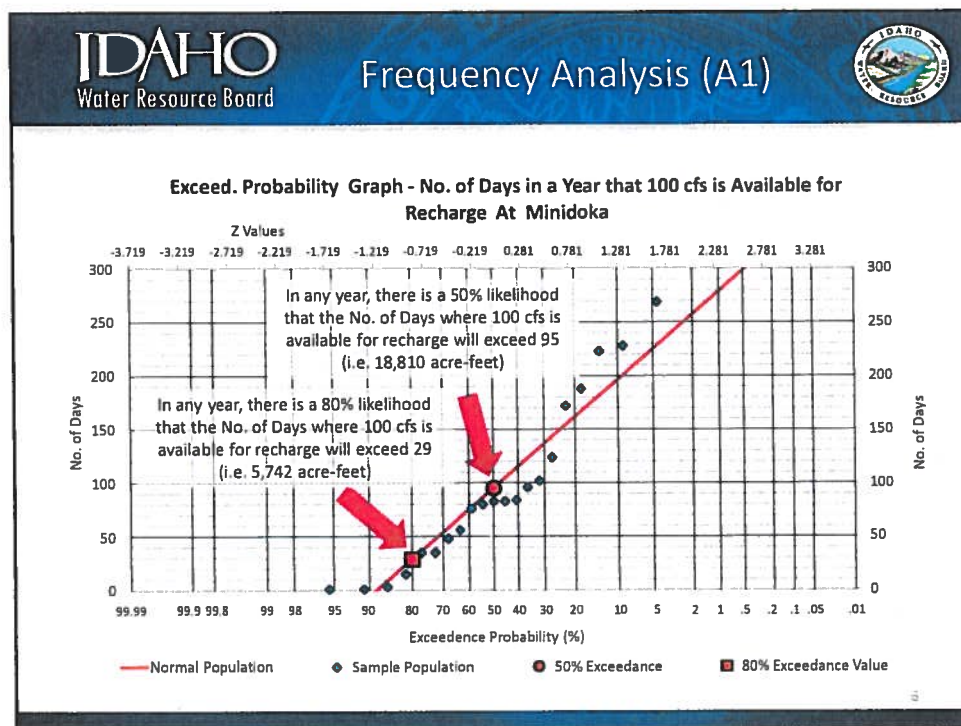
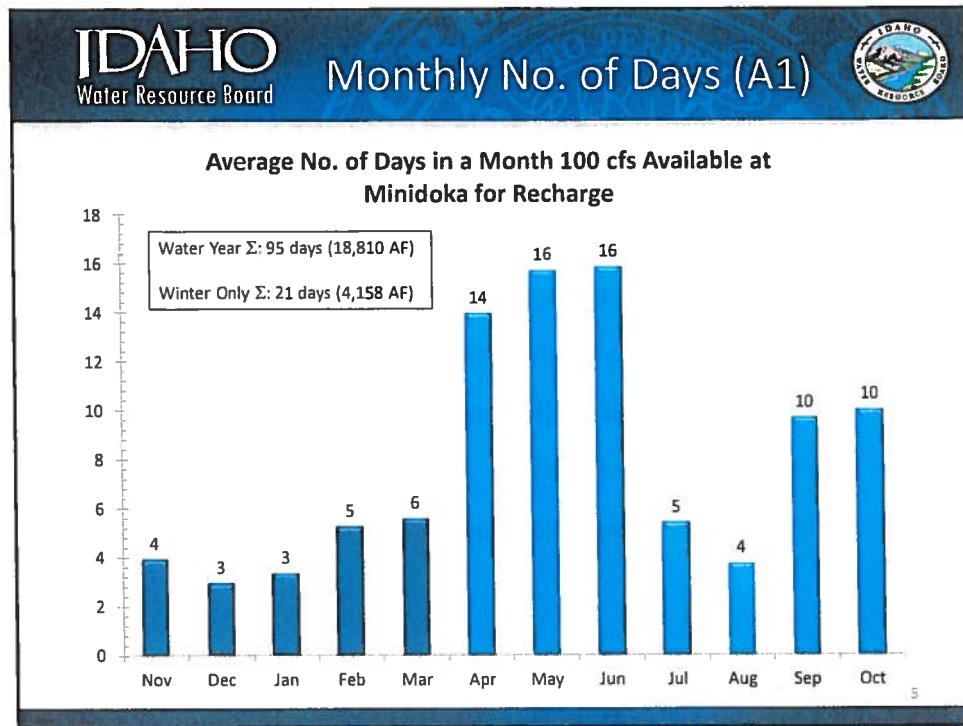
3



## Annual No. of Days 100 cfs Available at Minidoka for Recharge




4



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Conclusions from Approach 1:




1. Priority date satisfied
2. Average of 95 days available for recharge year round (18,810 AF)
3. Average of 21 days available for recharge in the non-irrigation season (4,158 AF)
4. 80% likelihood that 29 days available for recharge (5,742 AF)
5. 90% and 95% exceedance values are 0 days in a year available for recharge
6. Recharge volumes limited by diversion capacity of 100 cfs not water in the river
7. Frequency analysis and exceedance forecasting provides a reasonable fit.

7

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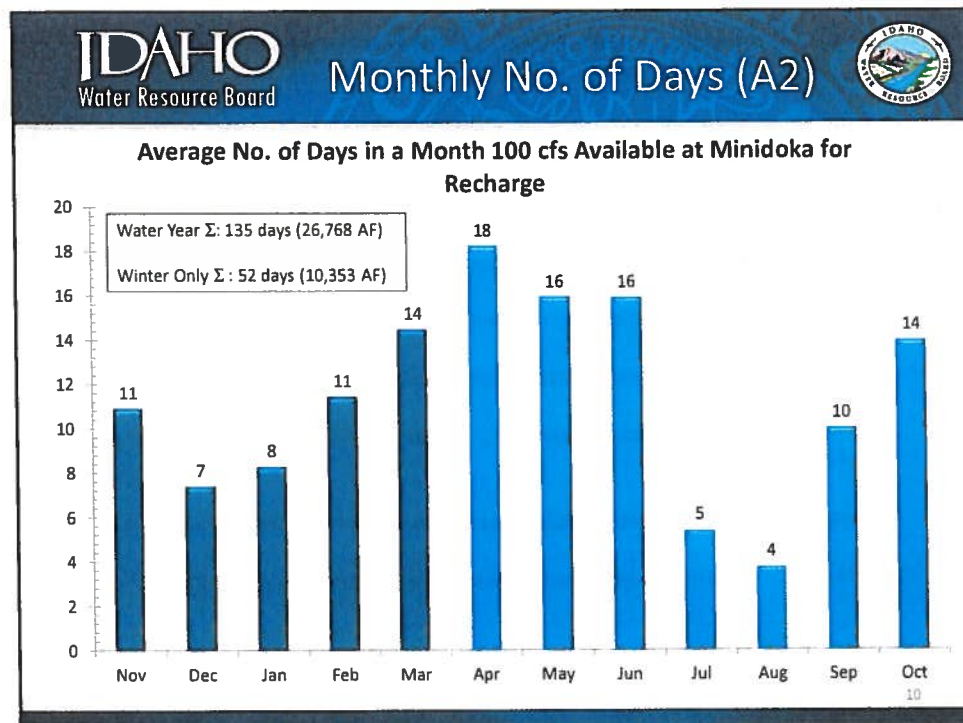
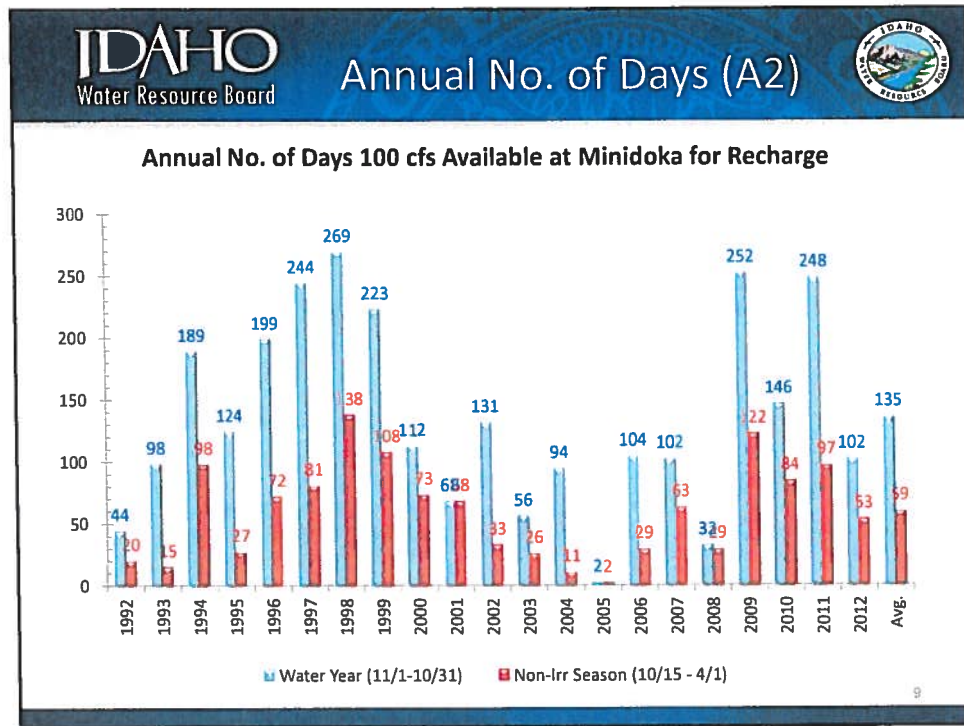
Approach 2



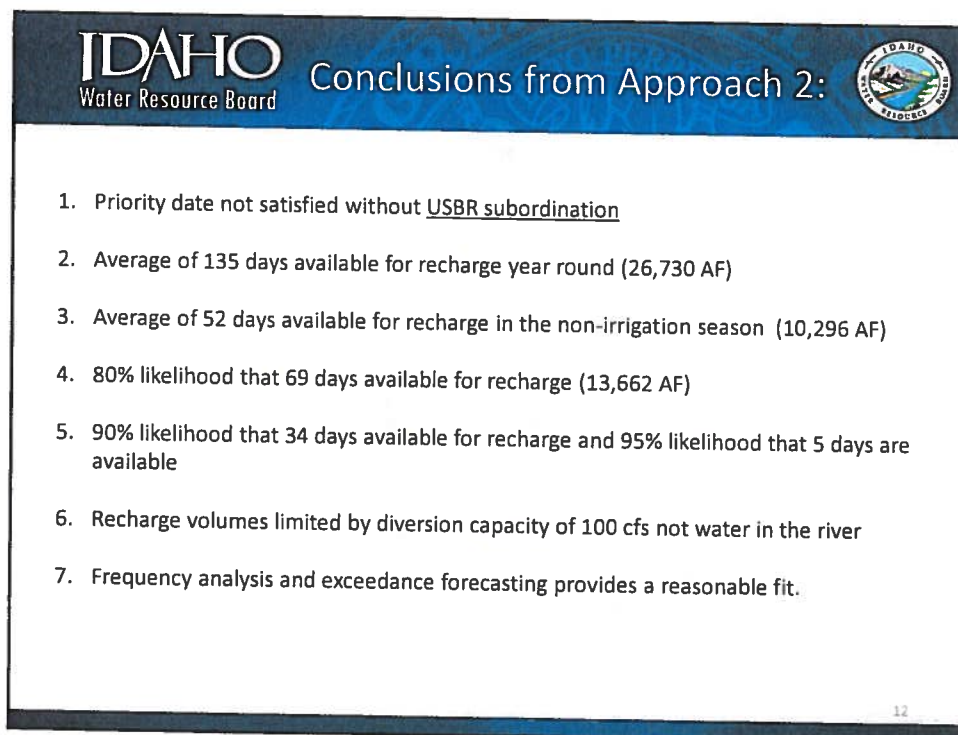
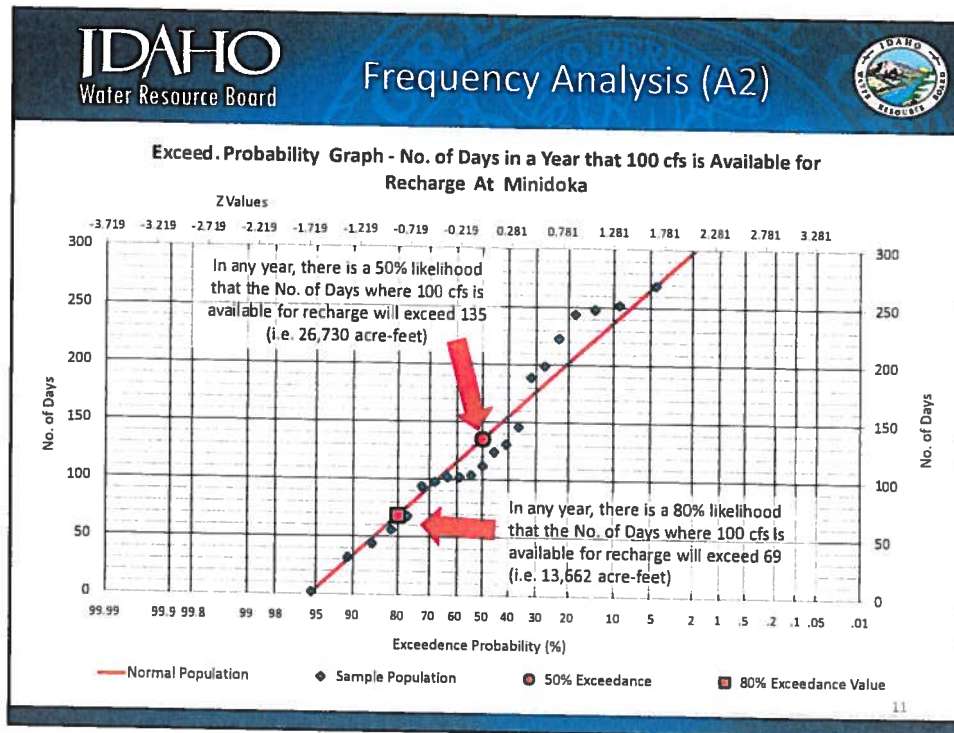
Analysis Considerations of Water Availability for Recharge at the Proposed Lake Walcott Recharge Site

1. Priority Date – Not Satisfied
2. Criteria 1:  $Q @ \text{Minidoka} \geq 600 \text{ cfs} (@ \text{MINI})$
3. Criteria 2:  $Q @ \text{Milner} \geq 100 \text{ cfs} (Q @ \text{MILI})$
4. Adjust for Bureau Flow Augmentation, IPCo Storage Releases, and Reach Gain Accruals Downstream of Minidoka Dam
5. Ensure 500 cfs Minimum Stream Flow Downstream of Minidoka
6. Period of Analysis: 1992 – 2012 (20 years)

8









**Exceedance Probability (Ex.)** – the probability that an event having a specified recharge volume and duration will be exceeded in a one year period of time.

**Approach 1 (QMINI > 2,800 cfs)**

	47% Ex.	50% Ex.	67% Ex.	80% Ex.	90% Ex.	95% Ex.
No. Days	<b>101</b>	95	61	29	0	0
Vol. (AF)	<b>20,018</b>	18,810	12,078	5,742	0	0

**Approach 2 (QMINI > 600 cfs)**

	47% Ex.	50% Ex.	67% Ex.	80% Ex.	90% Ex.	95% Ex.
No. Days	141	135	<b>101</b>	69	34	5
Vol. (AF)	27,918	26,730	<b>20,018</b>	13,662	6,732	990

**Add. Rech. Volume Available Under Approach 2 (App. 2 - App.1)**

	47% Ex.	50% Ex.	67% Ex.	80% Ex.	90% Ex.	95% Ex.
No. Days	40	40	40	40	34	5
Vol. (AF)	7,900	7,920	7,940	7,920	6,732	990