



November 14, 2017

Dan Nelson
Idaho Department of Water Resources
322 E. Front St.
P.O. Box 83720
Boise, ID 83720-0098

RECEIVED

NOV 17 2017

DEPARTMENT OF
WATER RESOURCES

Re: Amended Beneficial Use Field Report
Water Right 25-14425

Dear Dan,

This letter is a reply to your correspondence dated October 31, 2017. An amended field exam report is attached with corrections or edits that respond to the issues outlined in your correspondence. Specific details are outlined below.

The amended report provides a calculation and recommendation for annual volume diverted from S. Fk. Sellers Creek to the pond.

The relationship between Permit 25-14425 and Permit 25-14404 is clarified. Specifically, Permit 25-14425 was approved for the same beneficial use described in Permit 25-14404 with a change in source from an unnamed stream to S. Fk. Sellers Creek. Permit 25-14404 was not developed. A relinquishment form is attached for water right permit 25-14404.

A description of the relationship between water right 25-2020 and permit 25-14425 is added to the narrative section of the report. Transfer 79132 was approved May 14, 2014 to authorize a one-time fill and provide for annual evaporative losses from the pond. Irrigated area in the SWNW was reduced by 1.8 acres at the time the transfer was approved. No area in the SWNW has been enrolled in the Idaho Water Supply Bank and it does not appear the Bank contract needs to be amended at this time.

Please contact me with any questions.

Best Regards,

A handwritten signature in blue ink that reads "Roxanne Brown". The signature is fluid and cursive, with the first name "Roxanne" being more prominent than the last name "Brown".

Roxanne Brown
Sr. Water Rights Specialist

CC: Matthew Davidson (via email)

Enclosures

SPF Job No. 212.0390

THE CHURCH OF
JESUS CHRIST
OF LATTER-DAY SAINTS

October 22, 2015

SPECIAL PROJECTS DEPARTMENT

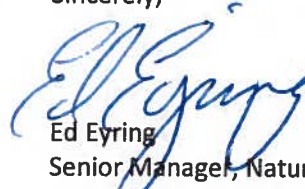
Real Estate Services Division
50 East North Temple Street
Salt Lake City, Utah 84150-0012
Phone: 1-801-240-2915
Facsimile: 1-801-240-2913

To Whom It May Concern:

Matthew Davidson, Professional Engineer (P.E.) was hired by the Corporation of the Presiding Bishop of the Church of Jesus Christ of Latter-day Saints, a Utah corporation sole (Church), in November of 2010 to manage water related issues for the Church. As an employee, Matt has been authorized by the Church to sign in behalf of and for, all water related applications, change applications, extensions of time, and water right proofs.

As the manager of the Natural Resource Section, in the Real Estate Services Division, Special Projects Department, please accept this letter of explanation of approval to sign on the Church's behalf.

Sincerely,



Ed Eyring
Senior Manager, Natural Resource Services
Real Estate Services Division – Special Projects
Department

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

Amended 11/14/2017

A Beneficial Use Field Report is prepared by a water right examiner as the result of an examination to clearly confirm and establish the extent of the beneficial use of water established in connection with a permit during the development period authorized by the permit and any extensions of time previously approved.

A. GENERAL INFORMATIONPermit No. 25-14425

1. Owner Corp. of the Presiding Bishop of the Church of Jesus Christ of Latter-Day Saints Phone No. (801) 240-4657
 Current address 50 E. North Temple St., 12th Floor, Salt Lake City, UT 84150-0012
2. Examiner's name Scott King, P.E. CWRE No. 133 EXAM DATE 9/8/2017
3. Accompanied by Jerry Barbre Email _____
 (Address _____
- Relationship to permit holder church missionary and camp staff Phone No. (208) 339-7023
4. Source S. Fk. Sellars Creek tributary to Sellars Creek

B. OVERLAP REVIEW

1. Other water rights with the same place of use 25-2020, 25-14404 (relinquishment form attached)
2. Other water rights with the same source and point of diversion none

C. DIVERSION AND DELIVERY SYSTEM

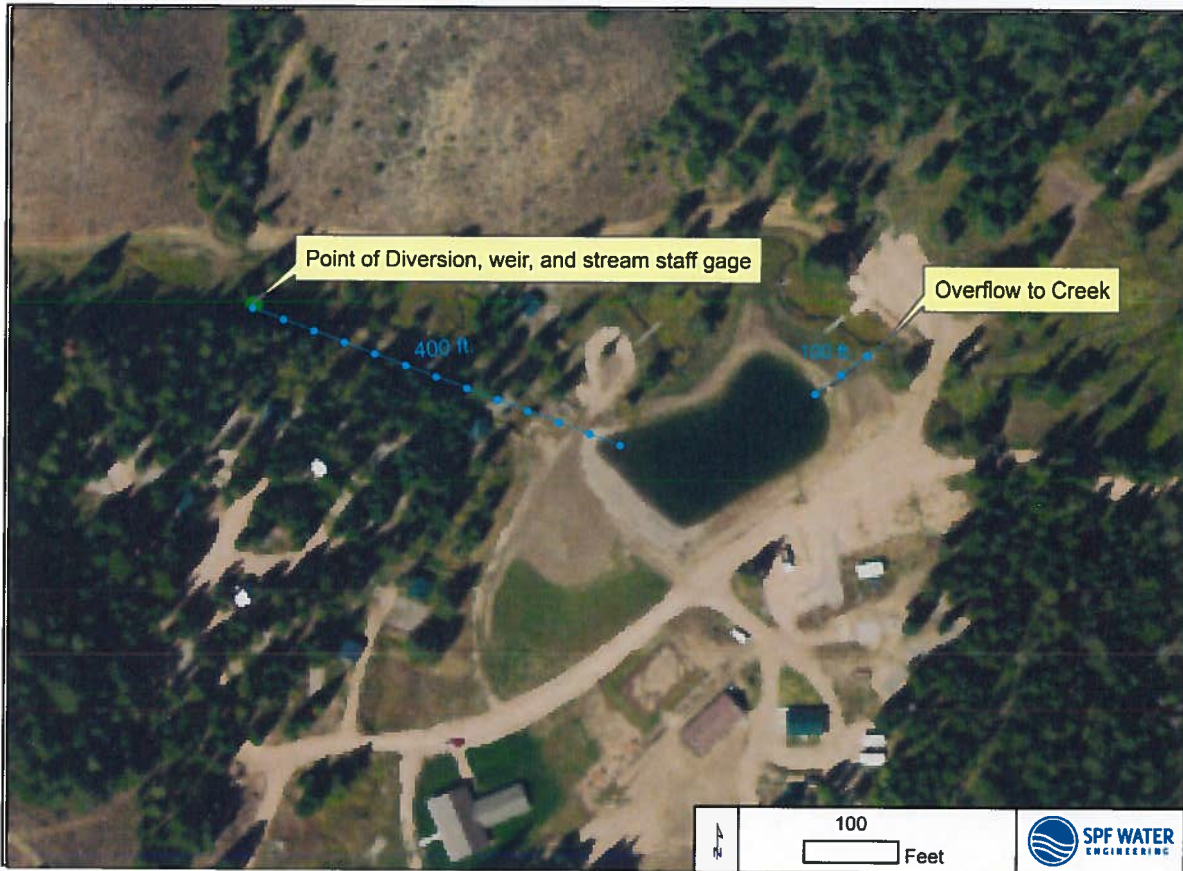
1. Point(s) of Diversion:

Ident. No.	Gov't Lot	¼	¼	¼	Sec	Twp	Rge	County	Method of Determination/Remarks
			SW	SW	11	2S	39E	Bingham	GPS, site inspection; aerial photography

2. Place(s) of Use: Method of determination site inspection; aerial photography

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
2S	39E	11											X						

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe diameter (inside), as applicable. Use the space provided or ☐ see attached.



Scale: 1" = _____

- ☒ Copy of USGS Quadrangle attached showing location(s) of point(s) of diversion and place(s) of use (required)
☐ Aerial photo attached (required for irrigation of 10+ acres)
☒ Photo of diversion and system attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*Code to correspond with no. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
compound weir (diversion ditch)						
current meter (stream flow)	Pygmy					

2. **Measurements:** See Attachment D.2.

E. NARRATIVE/REMARKS/COMMENTS

Diversion from South Fork Sellars Creek was measured through a compound weir (6" contracted rectangular above 60° v-notch weir). Head over the v-notch weir was 7". Measured flow was 0.36 cfs, which is above the 0.25 cfs authorized by permit 25-14425. The additional diversion rate was attributable to "checking" caused by camp-attendees playing in the creek and did not appear to be a permanent situation.

Streamflow in South Fork Sellars Creek was measured with a pygmy meter downstream of the diversion to the pond. Flow in the creek was 0.56 cfs at the time of the exam, which indicates the diversion (0.36 cfs) did not exceed 1/2 of the streamflow at the time of the exam $(0.36 + 0.56 \text{ cfs})/2 = 0.46 \text{ cfs} = 1/2 \text{ stream flow}$ which complies with Condition 6 of the permit.

A 1" mesh trash screen and 1/4" mesh fish screen are installed at the diversion from South Fork Sellars Creek, which complies with Condition 8 of the permit.

Through an agreement with Idaho Fish & Game to avoid additional disruption to stream habitat, the permittee contracted with Harper-Leavitt Engineering to install a staff gage and rate the section of S. Fk. Sellars Creek to provide measurement of stream flow and comply with Condition 6 of the permit.

Permit 25-14404 was issued for the same beneficial use as 25-14425 from a different source. The source identified in permit 25-14404 was not developed; permit 25-14425 was filed to identify the same beneficial use described in permit 25-14404 with a change in source from an "unnamed stream" to S. Fk. Sellars Creek. Permit 25-14404 will be relinquished.

A transfer has been approved for water right 25-2020 which changed 0.04 cfs and 3.7 afa to authorize a one-time fill and annual evaporative losses from the pond. Irrigated area authorized by 25-2020 was reduced by 1.8 acres in the SWNW Section 8, Twp 2S R4E at the time the transfer was approved.

Has the permit holder met all conditions of permit approval, including any mitigation requirements and/or measuring device installation requirements? ☒ Yes ☐ No If no, what must be done to meet the permit requirements?

F. FLOW CALCULATIONS☒ Additional computation sheets attached

Measured Method:

compound weir (diversion) and current meter (stream)

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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

2. Volume Calculations for Other Uses:

The applicant confirmed the system is operated by opening the headgate on May 1 each year and diverting 0.25 cfs continuously throughout the season. No records are available for daily flow measurements, but based on our field exam and measurement conducted during a period when we would expect flow in the stream to be low, we have assumed diversion of 0.25 cfs could occur for the entire 152-day season in some years. Beneficial use under this permit is non- consumptive.

 $(V = 0.25 \text{ cfs} \times 152 \text{ days} \times 1.9835 (5/1 \text{ to } 9/30) = 75.4 \text{ acre-feet})$ **H. RECOMMENDATIONS**

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
recreation	5/1	9/30	0.25	75.4
Totals:			0.25	75.4

2. Recommended Amendments

☐ Change P.D. as reflected on page 1☐ Add P.D. as reflected on page 1☒ None☐ Change P.U. as reflected on page 1☐ Add P.U. as reflected on page 1☐ Other**I. AUTHENTICATION**

Field Examiner's Signature

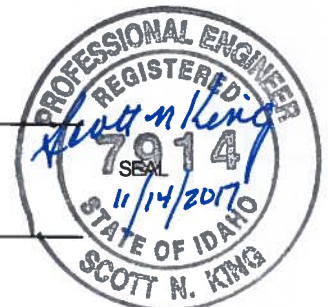
Scott N. King

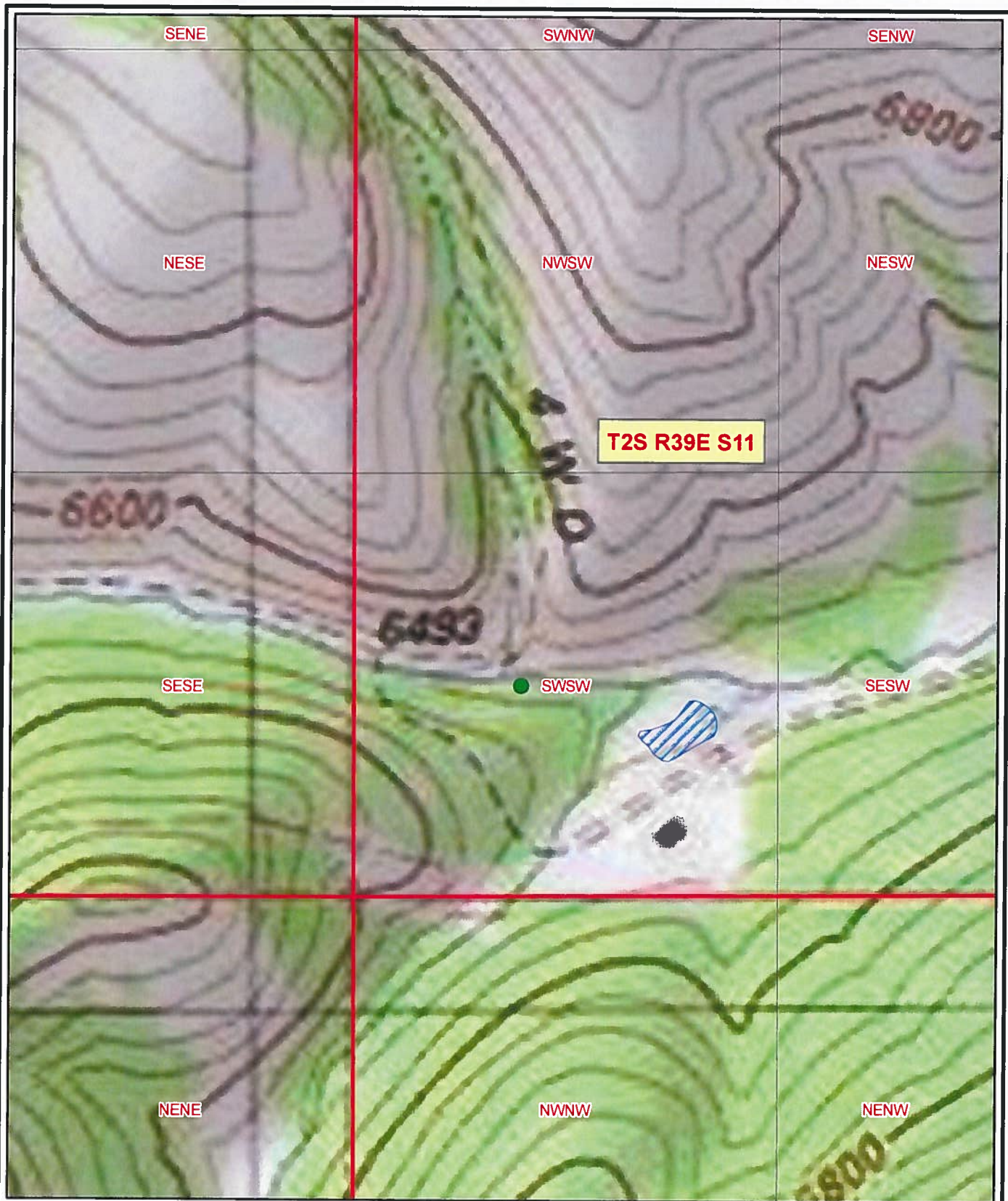
Date

4/14/17

Reviewer

Date





● Point of Diversion

 Place of Use

Beneficial Use Field Exam Map

27

300

 Feet



SPF WATER
ENGINEERING

Measured September 8, 2017

Diversion Ditch

Compound weir located in diversion works with 60 degree V-notch to 5.2 inches above crest (6 inch top width), then 6 inch contracted rectangular weir above the v-notch.
Depth over crest was 7 inches

Depth over crest at 6-inch width = 0.43 ft

(a) V-notch flow at 5.2 inches (0.43 ft) = 0.177 cfs

<U:\Resources\Water Flow Measurement\Small V-notch Weirs.xlsx>

(b) Rectangular flow at 7 inches (0.58 ft) = 0.57 cfs

<U:\Resources\Water Flow Measurement\Rect Weir Flow Calculations.xlsx>

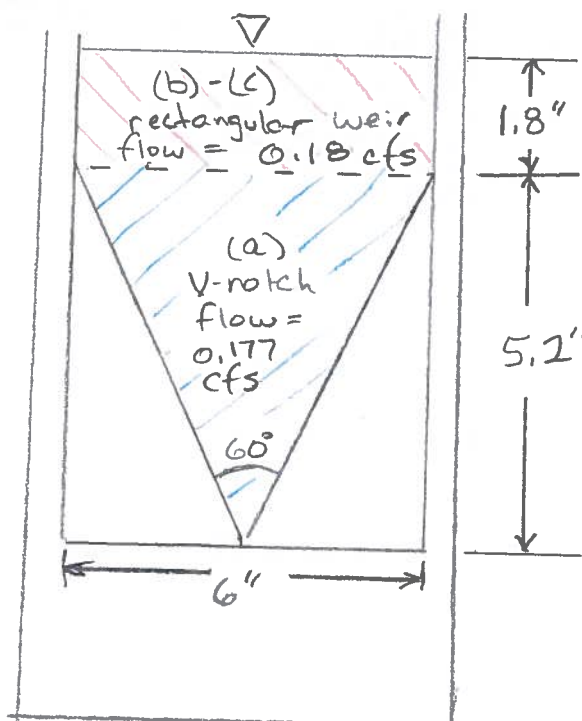
(c) Rectangular flow at 5.2 inches (0.43 ft) = 0.39 cfs

Total flow = a + b - c = 0.36 cfs

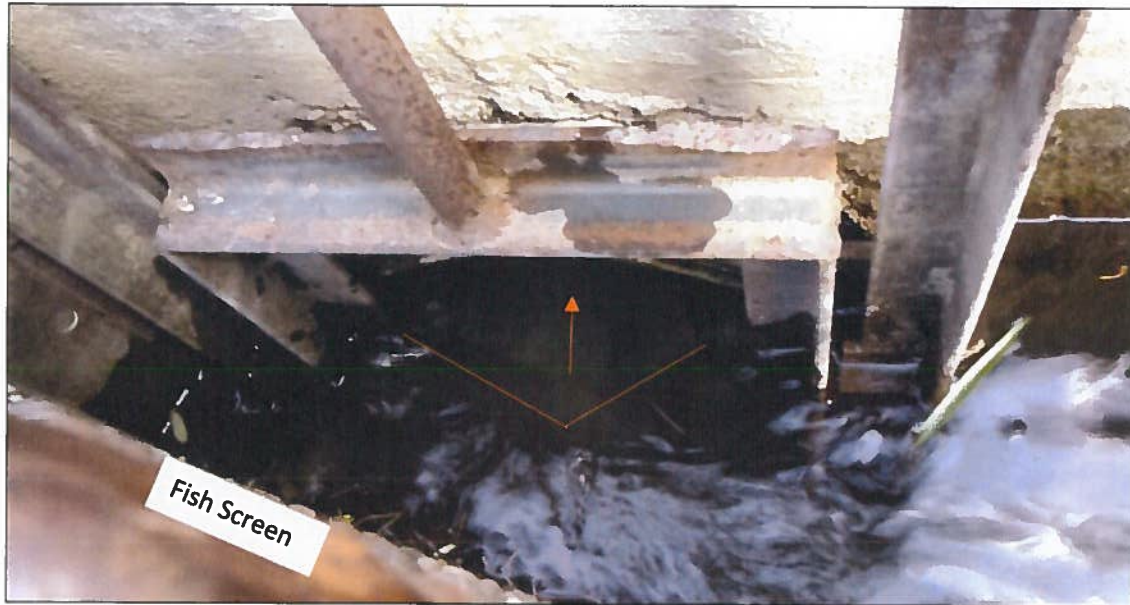
S. Fork Sellars Creek stream flow

Measured September 8, 2017 with a Pygmy current meter
Measurement site located 20' downstream of ditch diversion. (see photo)

Measured flow: 0.56 cfs



Weir



Stream Measurement Site





Photo A- 1. Headgate, fish screen and rated staff gage for stream measurement



Photo A- 2. Place of Use Pond



Photo A- 3. Outflow return to creek from pond.