

## Part 4 of 5 – Applicant Information and Signature

### Applicant Information

APPLICANT/BUSINESS NAME <b>Alice Beals / Oregon State Parks &amp; Recreation Dept.</b>		PHONE NO. <b>503-986-0751</b>	ADDITIONAL CONTACT NO.
ADDRESS <b>725 Summer Street NE Suite C</b>		FAX NO. <b>503-986-0792</b>	
CITY <b>Salem</b>	STATE <b>OR</b>	ZIP <b>97301</b>	E-MAIL <b>Alice.Beals@oregon.gov</b>
<b>BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.</b>			

**Agent Information** – The agent is authorized to represent the applicant in all matters relating to this application.

AGENT/BUSINESS NAME <b>William Baierski / Oregon State Parks &amp; Recreation Dept.</b>		PHONE NO. <b>503-986-0773</b>	ADDITIONAL CONTACT NO.
ADDRESS <b>725 Summer Street NE, Suite C</b>		FAX NO. <b>503-986-0792</b>	
CITY <b>Salem</b>	STATE <b>OR</b>	ZIP <b>97301</b>	E-MAIL <b>Bill.Baierski@oregon.gov</b>
<b>BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.</b>			

Explain in your own words what you propose to accomplish with this transfer application, and why: **see Attachments 1, 1A and 1B.**

If you need additional space, continue on a separate piece of paper and attach to the application as "Attachment 1".

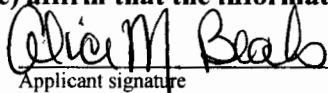
Check this box if this project is fully or partially funded by the American Recovery and Reinvestment Act. (Federal stimulus dollars)

#### Check One Box

- By signing this application, I understand that, upon receipt of the draft preliminary determination and prior to Department approval of the transfer, I will be required to provide landownership information and evidence that I am authorized to pursue the transfer as identified in OAR 690-380-4010(5); **OR**
- I affirm the applicant is a municipality as defined in ORS 540.510(3)(b) and that the right is in the name of the municipality or a predecessor; **OR**
- I affirm the applicant is an entity with the authority to condemn property and is acquiring by condemnation the property to which the water right proposed for transfer is appurtenant and have supporting documentation.

I understand that prior to Department approval of the transfer application, I may be required to submit payment to the Department for publication of a notice in a newspaper with general circulation in the area where the water right is located, once per week for two consecutive weeks. If more than one qualifying newspaper is available, I suggest publishing the notice in the following newspaper: Albany Democrat-Herald.

I (we) affirm that the information contained in this application is true and accurate.

  
Applicant signature

Alice M. Beals  
Print Name (and Title if applicable)  
A-O-W AGENT

2-20-2014  
Date

\_\_\_\_\_  
Applicant signature

\_\_\_\_\_  
Print Name (and Title if applicable)

\_\_\_\_\_  
Date

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Is the applicant the sole owner of the land on which the water right, or portion thereof, proposed for transfer is located?  Yes  No *If NO, include signatures of all deeded landowners (and mailing and/or e-mail addresses if different than the applicant's) or attach affidavits of consent (and mailing and/or e-mail addresses) from all landowners or individuals/entities to which the water right(s) were conveyed.*

Check the following boxes that apply:

- The applicant is responsible for completion of change(s). Notices and correspondence should continue to be sent to the applicant.
- The receiving landowner will be responsible for completing the proposed change(s) after the final order is issued. Copies of notices and correspondence should be sent to this landowner.
- Both the receiving landowner and applicant will be responsible for completion of change(s). Copies of notices and correspondence should be sent to this landowner and the applicant.

At this time, are the lands in this transfer application in the process of being sold?  Yes  No

If YES, and you know who the new landowner will be, please complete the receiving landowner information table below. If you do not know who the new landowner will be, then a request for assignment will have to be filed for at a later date.

If a property sells, the certificated water right(s) located on the land belong to the new owner, unless a sale agreement or other document states otherwise. For more information see: <http://www.oregon.gov/owrd/docs/transfer-propertytransactions.pdf>

RECEIVING LANDOWNER NAME			PHONE NO.	ADDITIONAL CONTACT NO.
ADDRESS				FAX NO.
CITY	STATE	ZIP	E-MAIL	

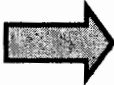
Describe any special ownership circumstances here: \_\_\_\_\_

- Check here if any of the water rights proposed for transfer are or will be located within or served by an irrigation or other water district. (Tip: Complete and attach Supplemental Form D.)

IRRIGATION DISTRICT NAME	ADDRESS	
CITY	STATE	ZIP

- Check here if water for any of the rights supplied under a water service agreement or other contract for stored water with a federal agency or other entity.

ENTITY NAME	ADDRESS	
CITY	STATE	ZIP

 To meet State Land Use Consistency Requirements, you must list all county, city, municipal corporation, or tribal governments within whose jurisdiction water will be diverted, conveyed or used.

ENTITY NAME <b>Linn County</b>	ADDRESS <b>300 SW 4<sup>th</sup> Avenue PO BOX 100</b>	
CITY <b>Albany</b>	STATE <b>OR</b>	ZIP <b>97321</b>

ENTITY NAME	ADDRESS	
CITY	STATE	<b>RECEIVED</b>

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## INSTRUCTIONS for editing the Application Form

To add additional lines to tables within the forms or to copy and paste additional Part 5 pages, please **save the application form to your computer**. Unlock the document by using one of the following instructions for your Microsoft Word software version:

### Microsoft Word 2003

Unlock the document by one of the following:

- Using the **Tools** menu => click **Unprotect Document**;

**OR**

- Using the **Forms** toolbar => click on the **Protect/Unprotect** icon.

To relock the document to enable the checkboxes to work, you will need to:

- Using the **Tools** menu => click **Protect Document**;

**OR**

- Using the **Forms** toolbar => click on the **Protect/Unprotect** icon.

### Microsoft Word 2007

- Unlock the document by clicking the **Review** tab, then click **Protect Document**, then click **Stop Protect**
- To relock the document, click **Editing Restrictions**, then click **Allow Only This Type of Editing**, select **Filling In Forms** from the drop-down menu, then check **Yes, Start Enforcing Protection**.

### Microsoft Word 2010

- Unlock the document by clicking the **Review** tab, toggle the **Restrict Editing** icon at the upper right, then click **Stop Protect** at the bottom right. Then uncheck the “**Allow only this type of editing** in the document: **Filling in forms**” in the “Editing restrictions” section on the right-hand list of options.
- To relock the document, check the **Editing Restrictions/Allow Only This Type of Editing/Filling In Forms** box from the drop-down menu, then check **Yes, Start Enforcing Protection**. You do not need to assign a password for the editing restrictions.

### Other Alternatives:

- Photocopy pages or tables in **Part 5**, ~~mark-through~~ any non-applicable information, insert/attach photocopied pages to document in the appropriate location, and manually amend page numbers as necessary (e.g. Page 5 of 9 10).
- You may refer to additional attachments that you may include, such as separately produced tables or spreadsheets to convey large numbers of rows of place of use listings, owner/property parcels, etc. You may contact the Department at 503-986-0900 and ask for Transfer Staff if you have questions.

Once the application has been unlocked, you may:

- add additional rows to tables using the Table tools, and
- select and copy the pages of Part 5 and paste as many additional sets of Part 5 pages as needed at the end of the application.

After editing, re-lock the document to enable checkboxes to work.

**Part 5 of 5 – Water Right Information**

Please use a separate Part 5 for each water right being changed. See instructions on page 6, to copy and paste additional Part 5s, or to add additional rows to tables within the form.

**CERTIFICATE # 10766**

**Description of Water Delivery System**

System capacity: 3.0 cubic feet per second (cfs) **OR**  
 \_\_\_\_\_ gallons per minute (gpm)

Describe the current water delivery system or the system that was in place at some time within the last five years. Include information on the pumps, canals, pipelines and sprinklers used to divert, convey and apply the water at the authorized place of use. **See attachment entitled: Thompson Mill – Current Water Delivery System**

**Table 1. Location of Authorized and Proposed Point(s) of Diversion (POD) or Appropriation (POA)**

(Note: If the POD/POA name is not specified on the certificate, assign it a name or number here.)

POD/POA Name or Number	Is this POD/POA Authorized on the Certificate or is it Proposed?	If POA, OWRD Well Log ID# (or Well ID Tag # L-___)	Twp	Rng	Sec	¼	¼	Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)
<b>A</b>	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed		13 S	3 W	8	NW	SE	51	S19°37'E 3540'
<b>B</b>	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed		13 S	3 W	8	NE	NW	50	N52°44'E 930'
	<input type="checkbox"/> Authorized <input type="checkbox"/> Proposed								
	<input type="checkbox"/> Authorized <input type="checkbox"/> Proposed								

**Check all type(s) of change(s) proposed below (change "CODES" are provided in parentheses):**

- |  |   |
|--|---|
| <input type="checkbox"/> Place of Use (POU)                              | <input type="checkbox"/> Supplemental Use to Primary Use (S to P) |
| <input checked="" type="checkbox"/> Character of Use (USE)               | <input type="checkbox"/> Point of Appropriation/Well (POA)        |
| <input type="checkbox"/> Point of Diversion (POD)                        | <input type="checkbox"/> Additional Point of Appropriation (APOA) |
| <input checked="" type="checkbox"/> Additional Point of Diversion (APOD) | <input type="checkbox"/> Substitution (SUB)                       |
| <input type="checkbox"/> Surface Water POD to Ground Water POA (SW/GW)   | <input type="checkbox"/> Government Action POD (GOV)              |

**Will all of the proposed changes affect the entire water right?**

- Yes Complete only the Proposed ("to" or "on" lands) section of Table 2 on the next page. Use the "CODES" listed above to describe the proposed changes.
- No Complete all of Table 2 to describe the portion of the water right to be changed.

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Please use and attach additional pages of Table 2 as needed. Do you have questions about how to fill-out the tables? See page 6 for instructions. Contact the Department at 503-986-0900 and ask for Transfer Staff.

**Table 2. Description of Changes to Water Right Certificate # 10766**

List the change proposed for the acreage in each 1/4. If more than one change is proposed, specify the acreage associated with each change. If there is more than one POD/POA involved in the proposed changes, specify the acreage associated with each POD/POA.

AUTHORIZED (the "from" or "off" lands)						PROPOSED (the "to" or "on" lands)											
The listing that appears on the certificate BEFORE PROPOSED CHANGES List only that part or portion of the water right that will be changed.						The listing as it would appear AFTER PROPOSED CHANGES are made.											
Twp	Rng	Sec	1/4	Tax Lot	Gvt Lot or DLC	Type of USE listed on Certificate	POD(s) or POA(s) (name or number from Table 1)	Priority Date	Twp	Rng	Sec	1/4	Tax Lot	Gvt Lot or DLC	New Type of USE	POD(s)/ POA(s) to be used (from Table 1)	Priority Date
13	S	3	W	8	NE NW	NON-ELECTRIC POWER	A	1933	13	S	3	W	8	NE NW	PW	A/B	1933
					202								202	50			
					N/A								"	"	FP	A/B	1933
													"	"	RC	A/B	1933
													"	"	PA	A/B	1933
													"	"	AS	A/B	1933
													"	"	DO	B	1933
												TOTAL ACRES:		N/A			

Additional remarks: \_\_\_\_\_ Permanent Transfer Application Form – Page 8 of 9  
Revised 7/1/2013

**For Place of Use or Character of Use Changes**

Are there other water right certificates, water use permits or ground water registrations associated with the “from” or the “to” lands?  Yes  No

If YES, list the certificate, water use permit, or ground water registration numbers: C14249, C81629.



Pursuant to ORS 540.510, any “layered” water use such as an irrigation right that is supplemental to a primary right proposed for transfer must be included in the transfer or be cancelled. Any change to a ground water registration must be filed separately in a ground water registration modification application.

**For Substitution** (ground water supplemental irrigation will be substituted for surface water primary irrigation)

Ground water supplemental Permit or Certificate # \_\_\_\_\_;  
Surface water primary Certificate # \_\_\_\_\_.

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**For a change from Supplemental Irrigation Use to Primary Irrigation Use**

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Identify the primary certificate to be cancelled. Certificate # \_\_\_\_\_

**For a change in point(s) of appropriation (well(s)) or additional point(s) of appropriation**

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Well log(s) are attached for each authorized and proposed well(s) that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map.

**Tip:** You may search for well logs on the Department’s web page at:  
[http://apps.wrd.state.or.us/apps/gw/well\\_log/Default.aspx](http://apps.wrd.state.or.us/apps/gw/well_log/Default.aspx)

**AND/OR**

Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide “a best estimate” for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

**Table 3. Construction of Point(s) of Appropriation**

Any well(s) in this listing must be clearly tied to corresponding well(s) described in Table 1 and shown on the accompanying application map. Failure to provide the information will delay the processing of your transfer application until it is received. The information is necessary for the department to assess whether the proposed well(s) will access the same source aquifer as the authorized point(s) of appropriation (POA). The Department is prohibited by law from approving POA changes that do not access the same source aquifer.

Proposed or Authorized POA Name or Number	Is well already built? (Yes or No)	If an existing well: OWRD Well ID Tag No. L-	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well -specific rate (cfs or gpm). If less than full rate of water right

# Attachment 1

## Summary

The historical Point of Diversion (POD) for water right certificate 10766 has been on the Calapooia River at the Shearer Dam. With the removal of the Shearer and Sodom Dams to regulate the diversion of water for the Mill's use, our plan is to develop a new POD downstream on the Calapooia River at the convergence of the Thompson's Mill race. This POD will consist of a centrifugal pumping system from the Calapooia River into the mill race. Its' purpose is to replace the water supply to the mill race when river flows become insufficient for fire protection (mid-spring to early winter) from the historical POD with the dams removed. The new POD will have a rate limit of 2 cfs, some of that being recirculated water. Also additional water usage types have been identified in order to change this mill site to a working museum. Attachments "Design Concept" (1A) and "Proposed Design Details" (1B) are enclosed with this application to provide more detail as to our plan.

## Background

Thompson's Mills State Heritage Site is located outside the town Shedd in Linn County (more particularly situated in Section 8, Township 13 South, Range 3 West, and Willamette Meridian. addressed at 32655 Boston Mill Road, Shedd, Oregon.

In 2003 a Memorandum of Understanding Relating to Future Management of Water Flows – Thompson Mills Waterworks: with the principal parties consisting of : The State of Oregon, acting through; Oregon Department of Fish and Wildlife, Oregon Water Resources Department, Oregon Parks and Recreation Department; and the Calapooia Irrigation District, Calapooia Watershed Council, Boston Mill Society (an Oregon non-profit corporation), and the Oregon Water Trust (an Oregon non-profit corporation); and finally with the advice and support of the following "Signatory Concurring Organizations": United States Bureau of Reclamation, the National Marine Fisheries Service and the United States Fish and Wildlife Service was enacted.

In 2004 OPRD purchased the Thompson Mill property and the Mill's water rights and has operated the mill as a working museum ever since.

As part of the "PLAN" to manage water flows at Thompson Mill and the Calapooia River, both the Shearer and Sodom dams on the Calapooia River have been removed to enhance fishery habitat. Now without the dams redirecting the water flows during low flow durations the mill is facing insufficient water to operate the mill for demonstration purposes. Also, there is a need for addition water character types of use such as Recreation and Fire Protection among others as the site transitions from a mill to a state park working museum.

To alleviate the low river flows, an adjustable water control structure will be created approximately 1100 feet up steam from the mill. During low river flow durations this water control structure will be used to prevent the back flow of water through the mill race. The water will be diverted from a point just downstream of the mill head gates at the confluence of the mill race and Calapooia River by way of a 7.5 HP motor pump system. The pumping system will maintain approximately 1.8 acre/ feet of water in the mill race for the uses applied for in this application.

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Attachment 1A

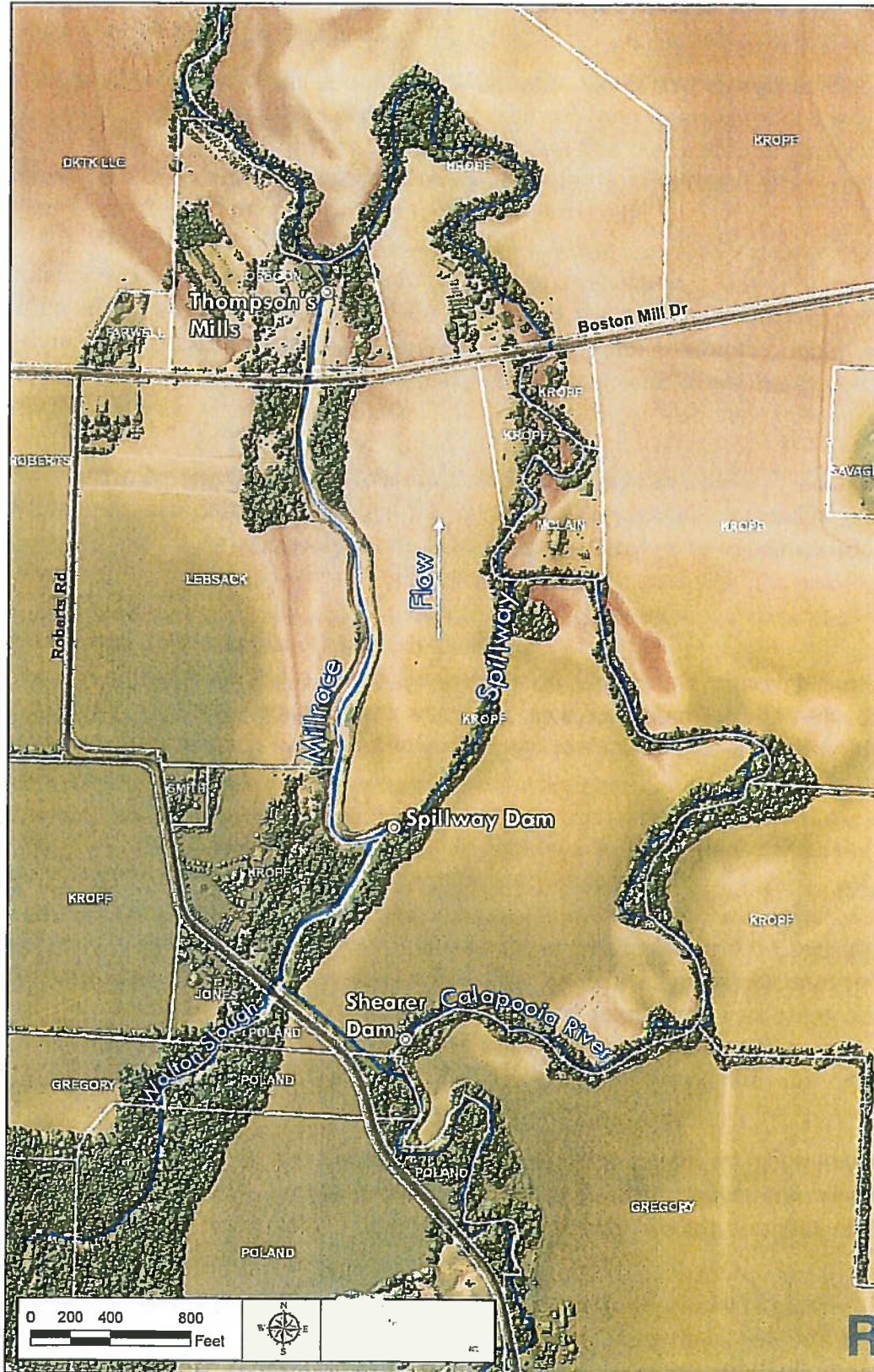


Figure 1. The project reach surface model developed using the integrated LiDAR data set. Landownership layer from Linn County GIS provided by Linn County Assessor.

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## 5 Water Delivery Alternatives

The following section presents three water delivery alternatives that have been discussed with OPRD. The three alternatives have several similar elements and to avoid redundancy, repeated elements for multiple alternatives are summarized after the element is originally presented. Design drawings are included in Appendix A and should be referenced when reviewing the following alternative descriptions. The three alternatives include:

- ~~• **Alternative 1 – Groundwater Well for Minimum Operations**~~  
 Machinery demonstrations would be limited to the November through May period when sufficient inflows to the millpond would allow for machinery operation without depleting millpond storage. A low yield groundwater well would be used to augment millpond storage to offset seepage and evaporation losses from June through October.
- ~~• **Alternative 2 – Groundwater Wells for Demonstration of Machinery**~~  
 Machinery demonstrations could be performed year-round although groundwater pumping would be necessary from June through October to replenish the millpond when outflows through the mill would exceed inflows to the millpond.
- **Alternative 3 – Pump from Calapooia River**  
 Machinery demonstrations could be performed year-round although surface water pumping from the Calapooia River would be necessary from June through October to replenish the millpond when outflows through the mill would exceed inflows to the millpond.

In addition to the project constraints identified in *Section 1.3 Project Constraints*, the following assumptions were made in evaluating the water delivery alternatives.

- Millpond losses are approximately 0.25 inches per day, including a 0.1 inch/day rate for evaporation and 0.15 inch/day rate for seepage. These are typical loss rates for this area but the selected rates do not reflect specific site conditions. Loss rates also do not include leakage through the Thompson's Mills headgates. The estimated 2-3 cfs that leaks through the headgates will need to be addressed to maximize water retention in the millpond.
- Stream flows in the Calapooia river and Walton Slough provide sufficient inflow to the millrace during high river flows, typically from November through May, for fire protection and milling purposes. Inflows during low stream flows, typically from June through October, would be insufficient to support either fire protection or power for milling purpose.
- An adjustable water control structure on the millrace is necessary to control the size of the millpond. From November through May, the millrace flows towards Thompson's Mills. From June through October, the millrace water level would decrease due to limited inflows. The control structure would be adjustable in order to convey higher flows but would not provide flood control. The structure would allow for controlling the

millpond stage from June through October. Because Shearer Dam will be removed, the lower elevation of the Calapooia River relative to the millrace would result in less Calapooia River water flowing into the millrace.

~~5.1 Alternative 1 – Groundwater Well for Minimum Operations~~

~~The intent of Alternative 1 – Groundwater Well for Minimum Operations is to maintain existing operations at Thompson's Mills and allow for machinery demonstrations while providing adequate firefighting water from fall through spring when inflows to the millpond would exceed millpond losses. Machinery demonstrations would not be conducted when milling water requirements exceed millpond inflows. An adjustable water control would be installed on the millrace to control millpond storage. A low volume groundwater well and recirculating pump would be installed in the tailrace immediately downstream from the Thompson's Mills' headgates to replenish water in the millpond lost to headgate leakage, and seepage and evaporation from the millpond during summer and early fall. The low volume groundwater well and recirculating pump would not be used from fall through spring when sufficient inflows to the millpond occur for machinery demonstrations.~~

Alternative 1 includes the following project elements.

- Construct a low head adjustable water control structure in the millrace at approximately STA 35+00.
- Rebuild existing flume gate and head gates.
- Install a low volume groundwater well, plumbing, and appurtenances.
- Install a recirculating pump downstream of the Thompson's Mills headgates to pump water leaked through the headgates back to the millpond.
- Relocate firefighting water supply Pump-Rite intake screen to a lower elevation in the millpond to increase millpond capacity available for demonstration of machinery.
- ~~Apply bentonite, or similar soil amendment, to millpond to reduce seepage losses.~~

The following information expands on the project elements. Table 1 includes pertinent elevations in the millrace and at the mill. Figure 2 includes an aerial view of the site with the project elements.

**Table 1.** Existing elevations in the millrace.

Feature	Elevation (NAVD88)	Significance
Top of Headgates	263.03	Full pool elevation
Spillway Dam Crest	264.05	Controls outflow to spillway channel
Top of Dry Hydrant Screens	259.03	-
Lowest Operating Water Level <sup>1</sup>	259.03	Minimum elevation for firefighting requirements

<sup>1</sup> Low operating level is 1 foot over top of screens per Thompson's Mills Operations Manual.

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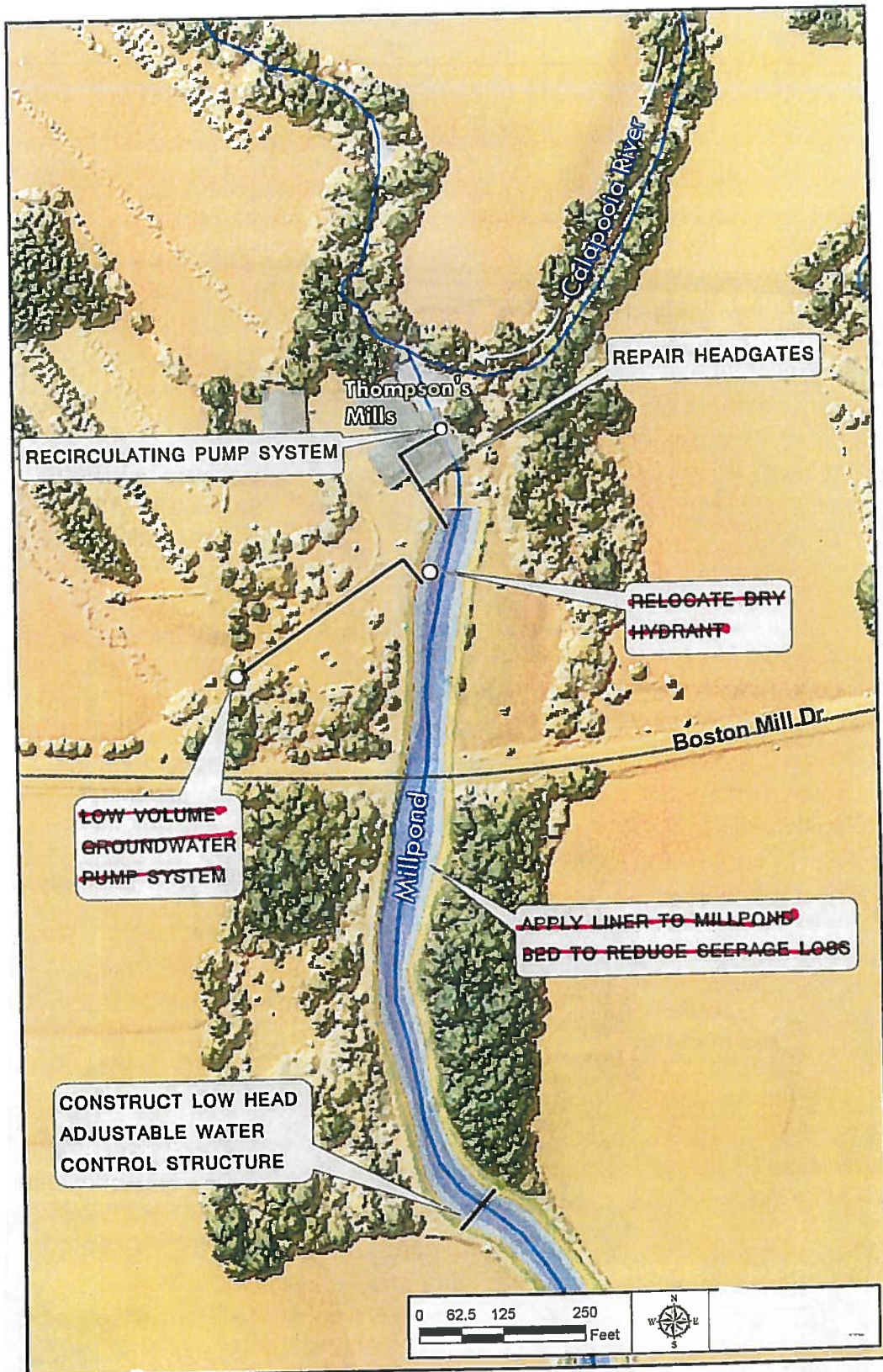


Figure 2.

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### **Low Head Adjustable Water Control Structure**

A low head adjustable water control structure is suggested in order to confine the summer time millpond while allowing for winter and spring flow conveyance. The structure would be located at approximately STA 35+00 and create a 1.8 acre millpond at full pool (approximately 263 ft elevation controlled by the Thompson's Mill's headgate). This location would ensure the structure is not visible from either Thompson's Mills or Boston Mill Road and would maintain the historic appearance of the millpond. An inflatable bladder dam or a low head concrete dam that could be adapted with flashboards or stanchions is recommended for the structure. Hydraulic modeling would be completed to ensure sufficient high water conveyance while minimizing flashboard height (if a flashboard option is selected). Flashboards would be installed on the dam once the millrace flows recede but prior to cessation of inflows from Walton Slough. Inflows would overtop the flashboards until the water surface reaches 263 ft which is the controlling elevation at the top of the Thompson's Mill's headgates. The 263 ft elevation is also 1 ft below the Spillway Dam elevation and equivalent to the bed elevation in the Roberts Road connector ditch. The flashboards would maintain the downstream millpond elevation by reducing water loss from the millpond to the spillway channel or Roberts Road connector ditch.

### **Millpond Storage**

Installing the water control structure would convert the millrace from a free-flowing channel to a millpond in the summer. Table 2 below includes a stage-storage relationship for the proposed 1.8 acre millpond and Figure 3 provides a graphical depiction of millpond storage by stage. The 254 ft water surface elevation corresponds to the millpond bed elevation at the Mill's headworks. The stage-storage relationship assumes a water control structure would have a top elevation of 263 ft to coincide with the top of the mill's headworks.

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**Table 2.** Stage-storage relationship for the proposed millpond.

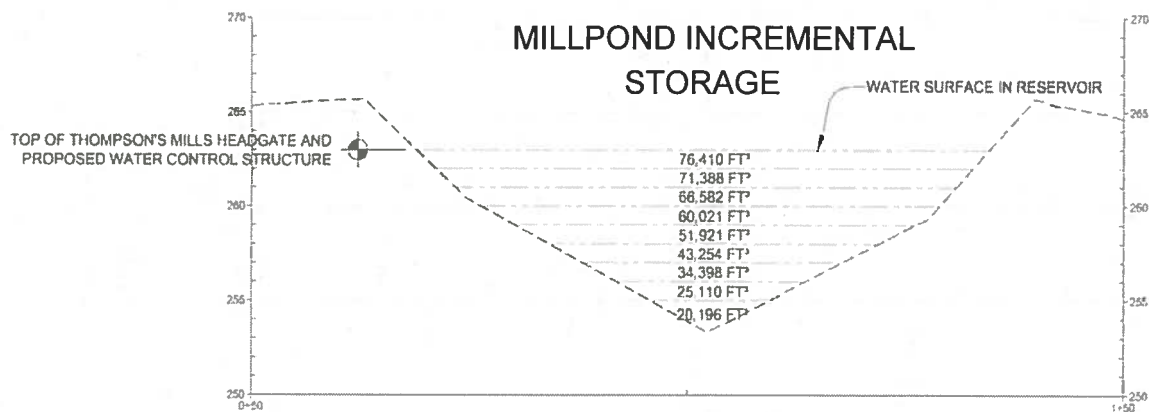
Water Surface Elevation (ft)	Total Millpond Storage (ft <sup>3</sup> )	Incremental Stage-Storage Change (ft <sup>3</sup> )
254	5,130	
255	20,196	15,066
256	45,306	25,110
257	79,704	34,398
258	122,958	43,254
259	174,879	51,921
260	234,900	60,021
261	301,482	66,582
262	372,870	71,388
263	449,280	76,410

<sup>1</sup>The mill's headworks top elevation is 263.05 ft.

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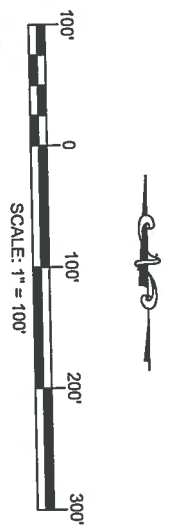
**Figure 3.** A graphical depiction of incremental storage in the millpond.

# Proposed Design Details for Low River Flows

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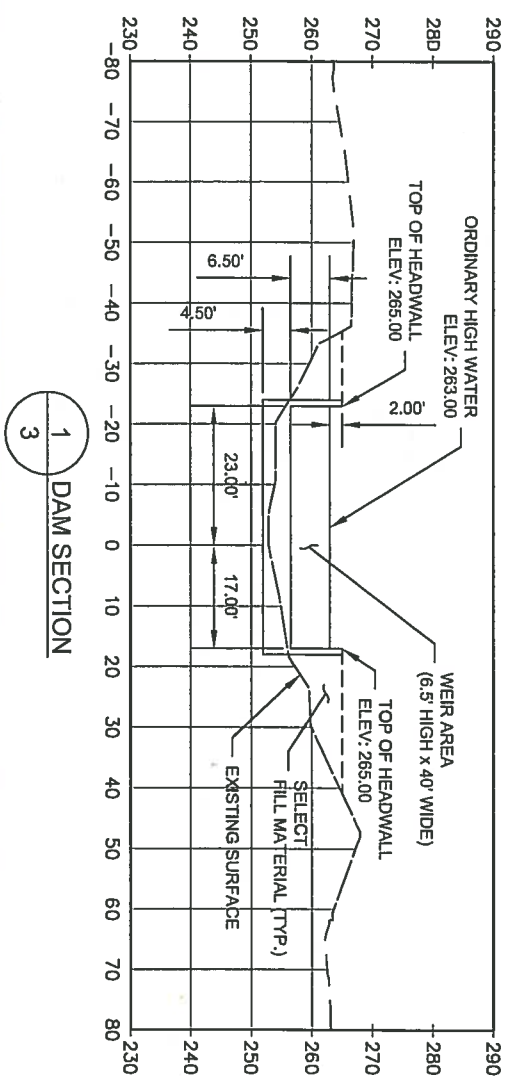
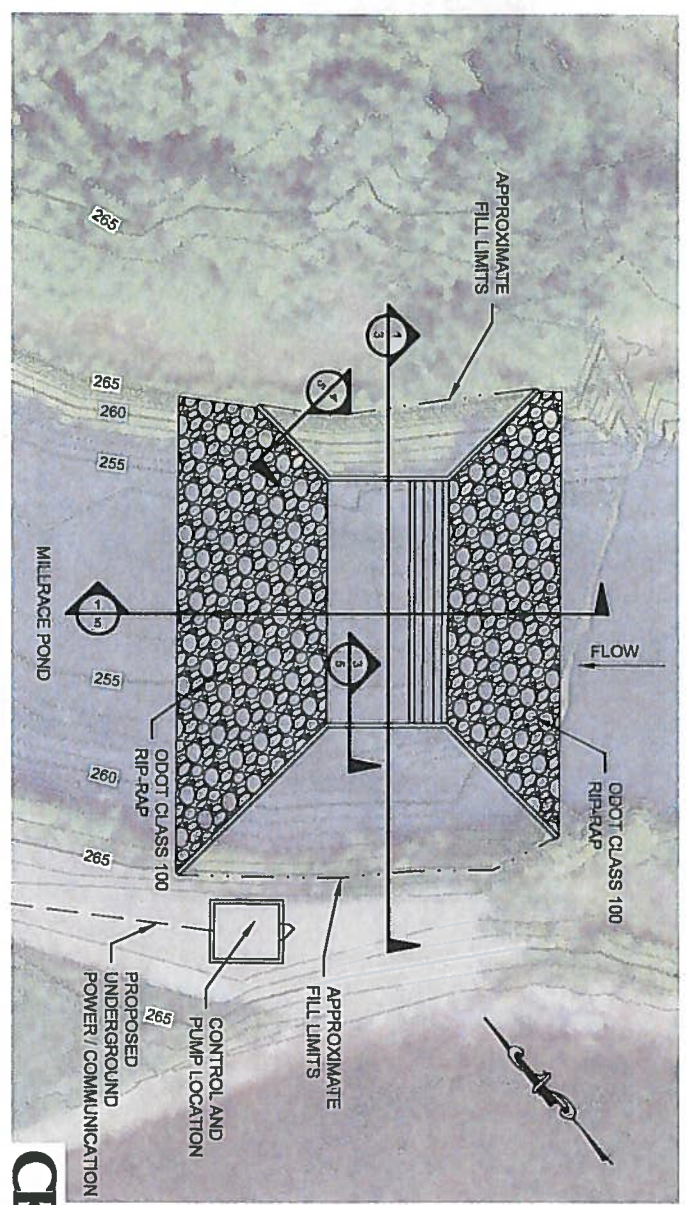
**SITE PLAN**  
THOMPSON'S MILLS STATE PARK  
BOSTON MILL ROAD, 2 MILES EAST OF SHEDD, OR 97377  
**OREGON PARKS AND RECREATION DEPARTMENT**



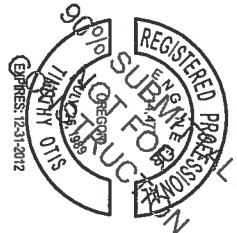
APPROVED BY	JAY WILLIAMS
DESIGNED BY	TIMOTHY L. OTIS
RKD	12/05/2011
DRAWN BY	DATE

REVISION	DATE	BY





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DAM PLAN AND SECTIONS  
THOMPSON'S MILLS STATE PARK  
BOSTON MILL ROAD, 2 MILES EAST OF SHEDO, OR 97377  
**OREGON PARKS AND RECREATION DEPARTMENT**



APPROVED BY: JAY WILLIAMS  
CHECKED BY: TIMOTHY L. OTIS  
REVISION BY: RKB  
DATE: 12/05/2011

REVISION	DATE	BY