

**CLAIM OF
BENEFICIAL USE
for Permits claiming more
than 0.1 cfs and All Transfers**



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

A fee of \$150 must accompany this form to be accepted for permits with a priority date of July 9, 1987, or later. (ORS 536.050(1))

A separate form shall be completed for each permit.

In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at: http://www.wrd.state.or.us/OWRD/WR/cwre_info.shtml#.

The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.

If you have questions regarding the completion of this form, please call 503-986-0900 and ask for the Certificate Section.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see http://www.wrd.state.or.us/OWRD/mgmt_reimbursement_authority.shtml.

SECTION 1

GENERAL INFORMATION

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OVER THE COUNTER**

1. File Information

APPLICATION # (G, R, S or T) T-10291	PERMIT # (IF APPLICABLE) N/A	PERMIT AMENDMENT # (IF APPLICABLE) N/A
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2. Property Owner (current owner information)

APPLICANT/BUSINESS NAME Millsite Management Company	PHONE No. (541) 382-2756	ADDITIONAL CONTACT No. (541) 382-6691
ADDRESS 15 SW Colorado Avenue, Suite 1		
CITY Bend	STATE OR	ZIP 97701
E-MAIL mike@wspi.net		

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If the current property owner is not the permit or transfer holder of record, it is recommended that an assignment be filed with the Department. **The COBU must be signed by the permit or transfer holder of record.**

3. Is the Property Owner the permit or transfer holder of record? **NO**

If "YES" the remainder of this item may be deleted.

Permit or transfer holder of record (this may, or may not, be the current property owner)

PERMIT OR TRANSFER HOLDER OF RECORD Central Oregon Irrigation District		
ADDRESS 1055 SW Lake Court		
CITY Redmond	STATE OR	ZIP 97756

Are there additional permit or transfer holders of record? **NO**

4. Date of Site Inspection:

5. Person(s) interviewed and description of their association with the project:

NAME	DATE	ASSOCIATION WITH THE PROJECT
Mike Bjorvik	9/06/2010	Head of Landscaping for Old Mill District

6. County:

7. If any property described in the place of use of the permit or transfer final order is excluded from this report, identify the owner of record for that property (ORS 537.230(4)):

**Mark "NA" if there are no owners of property not included in this claim

OWNER OF RECORD N/A		
ADDRESS		
CITY	STATE	ZIP

Are there additional Owners of Record? **NO**

**SECTION 2
SYSTEM DESCRIPTION**

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A. Points of Diversion/Appropriation

1. Point of diversion/appropriation name or number:

POINT OF DIVERSION/APPROPRIATION (POD/POA) NAME OR NUMBER (CORRESPOND TO MAP)	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WELL (IF APPLICABLE)	WELL TAG # (IF APPLICABLE)
POD T-10291 181205	N/A	N/A

Attach each well log available for the well (include the log for the original well and any subsequent alterations, reconstructions, or deepenings)

2. Point of diversion/appropriation source and, if from surface water, the tributary:

POD/POA NAME OR NUMBER	SOURCE	TRIBUTARY
Point of Diversion	Deschutes River	Columbia River

3. Developed use(s), period of use, and rate for each use:

POD/POA NAME OR NUMBER	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	RATE OR VOLUME FOR USE (CFS, GPM, OR AF)
POD	Irrigation	Quasi Municipal	Apr 1 – May 1	0.140 CFS
POD	Irrigation	Quasi Municipal	May 1 – May 15	0.186 CFS
POD	Irrigation	Quasi Municipal	May 15 – Sep 15	0.345 CFS
POD	Irrigation	Quasi Municipal	Sep 15 – Oct 1	0.186 CFS
POD	Irrigation	Quasi Municipal	Oct 1 – Nov 1	0.140 CFS
Total Quantity of Water Used				77.58 AF

4. Provide a general narrative description of the distribution works. This description must trace the water system from each point of diversion or appropriation to the place of use:

The point of diversion and irrigation pumphouse are located west of the intersection of Powerhouse Drive and Mill "A" Drive along the east bank of the Deschutes River between the Colorado Street bridge and the new Columbia Street bridge (south of the existing power sub-station and northwest of the storage pond). A 24-inch CMP diverts the water from the Deschutes River, where the approved fish screen is located, northeast approximately 100 feet to a wye that distributes the flow to the storage pond and to the pumphouse (see attached Final Proof Survey/Claim of Beneficial Use drawing). Butterfly isolation valves are located on each side of the wye to allow for flow regulation of the storage pond during the non-irrigation months (i.e. to release stormwater overflow to the Deschutes River and to provide flow to the pumphouse). From the wye, a 24-inch CMP line conveys the flow approximately 75 feet to a 48-inch wet well/manhole.

The Old Mill District Pump Station contains two 75 hp turbine pumps and one 15 hp turbine pump. As per the water right transfer requirements, a continuous flow meter was installed at the discharge end of the Old Mill District Pump Station to track total water use for the entire Old Mill District site. This meter (measured in cubic feet) is read approximately 4 to 5 times per week, with some exceptions due to staff availability, holidays, and weekends.

From the Old Mill District Pump Station, water is conveyed via an underground closed pipe system to three sources: (1) 56 irrigation meters located throughout the site that feed approximately 10,480 urban landscape sprinklers; (2) multiple water features (ponds, fountains, etc) located throughout the site; and (3) outlets used for street cleaning and dust control. The urban landscape irrigation meters (measured in cubic feet) are read at the beginning of each month to determine the water use for the previous month. The last two sources are not metered.

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SALEM, OREGON

SECTION 2

SYSTEM DESCRIPTION (B through H)

Are there multiple PODs or POAs?

NO

If "YES" you will need to copy and complete Sections 2B through 2H for each POD/POA.

POD/POA Name or Number this section describes (only needed if there is more than one):

Point of Diversion & Fish Screen

B. Place of Use

1. Is the right for municipal use?

YES

If "YES" the table below may be deleted.

TWP	RNG	MER	SEC	Q-Q	GLot	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
T18S	R12E	W.M.	5	NW NW	N/A	N/A	QM		
Total Acres Irrigated									

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (Gov Lot), Quarter-Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, Gov Lot, and QQ.

C. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport and apply the water from the point of diversion/appropriation to the place of use.

1. Is a pump used?

YES

If "NO" items 2 through item 6 may be deleted.

2. Pump Information

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Fairbanks	8M9-9	N/A	Turbine	4"	4"
National	E12XMC-4	N/A	Turbine	8"	8"
National	E12XMC-4	N/A	Turbine	8"	8"

3. Motor Information

MANUFACTURER	HORSEPOWER
US Motor	15 HP
US Motor	75HP
US Motor	75HP

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4. Theoretical Pump Capacity

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
15 HP	120 psi	3'	Varies – 50' max	0.30 CFS
75 HP	120 psi	3'	Varies – 50' max	1.48 CFS
75 HP	120 psi	3'	Varies – 50' max	1.48 CFS
Calculated Total Pump Output				3.26 CFS

5. Provide pump calculations:

Total Head = suction lift+pressure head+discharge lift (sue maximum lift)
 = 3'+ (120psi*2.31*1.1) + 50
 = 357.9'

Q Pump = (horsepower)(pump efficiency factor) = Q in cfs
 = $\frac{(15)(7.04)}{(357.9)} = 0.30 \text{ cfs} = 135 \text{ gpm (15HP pump)}$
 = $\frac{(75)(7.04)}{(357.9)} = 1.48 \text{ cfs} = 664 \text{ gpm (75HP pump)}$

Calculated total pump output = 0.30 cfs + 1.48 cfs + 1.48 cfs = 3.26 cfs = 1,463 gpm

Note: This is a very large system and the discharge lift varies with elevation. These calculations assumed the maximum lift. Areas with less lift and located closer to the pump station will produce greater flows.

6. Measured Pump Capacity (using meter if meter was present and system was operating)

INITIAL METER READING	ENDING METER READING	DURATION OF TIME OBSERVED	TOTAL PUMP OUTPUT (IN CFS)
I was not present during the pump test (see attached). The test reflects 2, 4-hour time periods. During the first 4-hour period the system was operated to demonstrate that it is capable of delivering in excess of 1.23 cfs or 550 gpm. This is the total rate of Quasi Municipal water right for the system (T-9769 + T-9283 + T-7574 + T-10291). In the second time period the demand was dropped to reflect the normal operating demand for the time of year.			
61,394,340 cf	61,418,172 cf	4-hours	1.66 cfs (745 gpm)
61,418,172 cf	61,429,412 cf	4-hours	0.78 cfs (350 gpm)

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?

YES

If "NO" items 8 through item 11 may be deleted.

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SALEM, OREGON

8. Mainline Information

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
12"	830 LF	PVC	BURIED
8"	6,130 LF	PVC	BURIED
6"	5,770 LF	PVC	BURIED
4"	10,690LF	PVC	BURIED
3"	6,420 LF	PVC	BURIED
2 1/2"	1,580 LF	PVC	BURIED
2"	7,500 LF	PVC	BURIED

9. Lateral or Handline Information

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
3/4" to 3" lateral sized according to needed gpm per zone, not to exceed 5fps	Unknown	PVC	BURIED

10. Sprinkler Information

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
Varies	35 - 65	1.25 gpm	6,812	10/zone	18.97 cfs (8,515 gpm)
Varies	35 - 65	3.00 gpm	3,668	10/zone	24.52 cfs (11,004 gpm)

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Pivot Information

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
N/A - No Pivot				

12. Additional notes or comments related to the system:

Irrigation is applied to the Quasi-Municipal area of the system from the bulge in the system referred to as the "Hot Pond" during the night time hours to avoid user impact during the day.

D. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)? **NO**

If "NO", items 2 through 8 relating to this section may be deleted.

E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir) **YES**

If "NO", item 2 and 3 relating to this section may be deleted.

If "YES" is it a: **NO**

Storage Tank **NO**

Bulge in System / Reservoir **YES**

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SALEM, OREGON

Complete appropriate table(s) below, unused table may be deleted.

2. Storage Tank:

MATERIAL (CONCRETE, FIBERGLASS, METAL, ETC.)	CAPACITY (IN GALLONS)	ABOVE GROUND OR BURIED
N/A		

3. Bulge in System / Reservoir:

RESERVOIR NAME OR NUMBER (CORRESPOND TO MAP)	APPROXIMATE DAM HEIGHT	APPROXIMATE CAPACITY (IN ACRE FEET)
Irrigation Pond	Pond is excavated in the ground	0.8 AF (approximate)

F. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

YES

If "NO", items 2 through 4 relating to this section may be deleted.

2. Complete the table:

PIPE SIZE	PIPE TYPE	"C" FACTOR	AMOUNT OF FALL	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER FLOW (IN CFS)
24"	CMP	60	0'	Approximately 115 LF from river to pond and 75 LF from pond to pump wetwell	0%	15.7 CFS

3. Provide calculations:

The 24" CMP is located below the river water level and is connected directly to the bulge in the system (Hot Pond). The calculated maximum pumping flow rate is 3.26 cfs (1,463 gpm). Flow is based on a drop in head from the river to the pond (pumps have a minimal impact on pond drawdown).

The average velocity through the 24" CMP flowing full at maximum pump rate = $Q/A=3.26$ CFS/ $\pi*(2ft)^2/4 = 1.04ft/s$.

Assume maximum design flow from river to pond to have a design rate of 5ft/s. Flow rate through the 24" CMP at 5ft/s = $5ft/s*(2ft)^2/4 = 15.7$ CFS.

This demonstrates that the 24" CMP can easily accommodate the maximum pumping rate generated by the system.

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)
9/29/2010	Brian Shawver	Pump Test	1.66 CFS

Attach measurement notes.

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SALEM OREGON

G. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system? **NO**

If "NO", items 2 through 4 relating to this section may be deleted.

H. Reservoir

1. Does the claim involve a reservoir modified through a transfer? **NO**

Reminder: This section should only be completed if the reservoir right has been modified through the transfer process. If the claim is for a permitted reservoir use the Claim of Beneficial Use form for reservoirs.

If "NO", items 2 through 9 relating to this section may be deleted.

**SECTION 3
CONDITIONS**

Please pay special attention to this section. All conditions contained in the permit, permit amendment, transfer final order, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits, transfer final orders, and any extension final orders contain any or all of the following dates; the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed use is to be completed by. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit, extension or transfer final order:

	DATE FROM PERMIT OR TRANSFER	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	8/17/2010		
BEGIN CONSTRUCTION (A)	N/A	November 1999	This was the beginning of the initial construction of the irrigation system
COMPLETE CONSTRUCTION (B)	10/1/2006 (T-10004, T-9769, T-9283 & T-7574); 10/1/2009 (T-10466)	2/2000 8/2005	The current system was constructed to accommodate the irrigation needs of the Old Mill District in Bend and some surrounding Park District Property. Claims of Beneficial Use have been submitted to the Department using the dates to the left.
COMPLETE APPLICATION OF WATER (C)	10/1/2012	10/1/2010	A pump test was run on 9/29/2010 demonstrating that the system can produce more than the total required rate of water for the total amount of Quasi-Municipal use allotted to the system.

* MUST BE WITHIN PERIOD BETWEEN PERMIT, TRANSFER FINAL ORDER, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETELY APPLY WATER

2. Is there an extension final order(s)?

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SALEM, OREGON

NO

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If "NO", you may delete item 3 in this section.

4. Initial Water Level Measurements:

a. Was the water user required to submit an initial static water level measurement? **NO**

If "NO", items 4b through 4d relating to this section may be deleted.

5. Annual Static Water Level Measurements:

a. Was the water user required to submit annual static water level measurements? **NO**

If "NO", items 5b through 5e relating to this section may be deleted.

6. Pump Test (Required for most ground water permits prior to issuance of a certificate)

a. Did the permit require the submittal of a pump test? **NO**

7. Measurement Conditions:

a. Does the permit, permit amendment, transfer final order, or any extension final order require the installation of a meter or approved measuring device? **NO**

Note: The requirement is that the water user shall maintain and operate the existing measurement device and shall make improvements as may be required by the department.

If "NO", items 7b through 7f relating to this section may be deleted.

Reminder: If a meter or approved measuring device was required, the COBU map must indicate the location of the device in relation to the point of diversion or appropriation.

b. Has a meter been installed? **YES**

c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Meter installed at pumping station	Data Industrial	N/A	Working	616735712	2/2000

d. If a meter has not been installed, has a suitable measuring device been installed and approved by the Department? **N/A**

If a meter has been installed, items 7e through 7g relating to this section may be deleted.

8. Recording and reporting conditions **RECEIVED**

a. Is the water user required to report the water use to the Department? **NO**

If "NO", item 8b relating to this section may be deleted.

9. Fish Screening

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion? **YES**

If "NO", items 9b through 9e relating to this section may be deleted.

Reminder: If fish screening devices were required, the COBU map must indicate their location in relation to the point of diversion.

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SALEM, OREGON

b. Has the fish screening been installed?

YES

c. When was the fish screening installed?

DATE	BY WHOM
8/8/2006	Temporary Fish Screen was installed
9/22/2009	Permanent Fish Screen was installed by ODFW

d. If the diversion involves a pump *and* the total diversion rate of all rights at the point of diversion is less than 225 gpm (0.5 cfs):

- Has the self-certification form previously been submitted to the Department? NA
- If not, go to <http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml>, complete and attach a copy of the self-certification form to this claim, and send a copy of it to the Oregon Department of Fish and Wildlife (ODFW).

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. The ODFW self certification form needs to have been previously submitted or be attached to this form.

e. If the diversion does **not** involve a pump *or* the total diversion rate of all rights at the point of diversion is 225 gpm (0.5 cfs) or greater:

- Has the ODFW approval been previously submitted? YES
- **A copy of the executed Fish Screen Inspection Form is attached to this Application**
- If not, contact and work with ODFW to ensure compliance. To demonstrate compliance, provide signed documentation from ODFW. A form is available at <http://www.wrd.state.or.us/OWRD/PUBS/forms.shtml>

Reminder: Failure to submit evidence of a timely installed fish screen may result in an unfavorable determination. In order to receive a favorable approval, the ODFW/WRD "Fish Screen Inspection" form needs to have been previously submitted or be attached to this form.

10. By-pass Devices

a. Are any points of diversion required to have a by-pass device to prevent fish from entering the point of diversion?

NO

The Transfer Order states that a fish screen OR by-pass device must be installed. A fish screen was installed, therefore a by-pass device is not required.

If "NO", items 10b and 10c relating to this section may be deleted.

11. Other conditions required by permit, permit amendment final order, extension final order, or transfer final order

- a. Were there special well construction standards? NO
- b. Was submittal of a ground water monitoring plan required? NO
- c. Was the water user required to restore the riparian area if it was disturbed? NO
- d. Was a fishway required? NO
- e. Was submittal of a letter from an engineer required prior to storage of water? NO
- f. Was submittal of a water management and conservation plan required? NO
- g. Other conditions? YES

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If "YES" to any of the above, identify the condition and describe the water user's actions to comply with the condition(s):

5. The former place of use of the transferred right shall no longer receive water under the right.
Response: The former place of use no longer receives water under this water right.

7. The Maximum rates of diversion from the Deschutes River under the portion of the right evidenced by the Certificate 76358 at the diversion point on the receiving landowner's property, shall continue to be based on 20.135 acres of irrigation right transferred, excluding 45% transmission loss, being:

0.140 cfs from April 1, to May 1, and October 1, to November 1 (season 1);

0.186 cfs from May 1, to May 15 and September 12, to October 1 (season 2);

0.345 cfs from May 15, to September 15; being 0.246 cfs under the 1900 priority date and 0.099 cfs under the 1907 priority date (season 3).

Response: Use is metered and compliant.

8. The annual quantity of water diverted for the Deschutes River for quasi-municipal purposes shall not exceed 77.58 acre-feet.

Response: The total quantity diverted has not been exceeded.

11. Water user shall maintain the existing headgate and shall make such improvements as may be required by the Department.

Response: The COID headgate has been maintained.

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SALEM, OREGON

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**SECTION 4
VARIATIONS**

Include a description of variations from the permit, permit amendment final order, extension final order, or transfer final order. (i.e. *"The permit allowed three points of diversion. The water user only developed one of the points."* or *"The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres."*)

This claim of beneficial use is for T-10291 a quasi-municipal right. The pump and delivery system is operated by Millsite Management Company, which also delivers irrigation water for T-10466 (claim of beneficial use submitted to OWRD in September 2010) and irrigation water and quasi-municipal water pre T-10004, T- 9769, T-9283 & T-7574 (claim of beneficial use submitted and logged into OWRD October 2008).

Since the system already delivers water for the additional water rights mentioned above, it was determined that the pump test needed to prove that the system could deliver the maximum flow rate equal or greater than the sum of the existing water rights as well as that for T-10291. The total aggregate rate for Season 3 is 1.356 cfs or 609 gpm. The pump test produced a pumping rate of 1.66 cfs or 745 gpm. This rate far exceeds the sum total of the combined water rights. Therefore this proves the system has the capacity to handle the quasi-municipal water right for T10291.

The reason that the water for T-10291 was acquired is that in 2007 it was determined that more irrigation water was going to be needed for water system. It was also anticipated at the time that additional properties in the Old Mill District would be developed. It supplies quasi-municipal water (T-9796, T-9283 & T-7574) and irrigation water (10004) to the project known as the Old Mill District in Bend, Oregon. I also supplies water for a portion of the Bend Metropolitan Park and Recreation District (T10466). The 2010 Pump Meter Reading spreadsheet attached shows that without T-10291, the amount of water used would have exceeded the allotted amount. The Quasi-Municipal Water District Map is attached as well as the Final Proof Survey. By comparing these two drawing it can be seen that approximately only two-thirds of the Quasi-Municipal Water District has been developed to this point. T-10291 will allow for expansion of the system when economic conditions again become favorable to developing the remaining property.

Included is a drawing by Bussard Engineering showing the location of the mainline irrigation system. This drawing has not been updated since February 2006 and contains assumptions regarding line size & location. However this is the best data we were able to obtain and it was used in developing system capacity calculations for this application.

Based upon the above documentation the system can easily handle pumping the additional water for T-10291. Also without this additional right, the amount of water currently being used would exceed the combined rights of T-10466, T-10004, T-9769, T-9283 & T-7574.

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MAR 14 2011

WATER RESOURCES DEPT
SALEM, OREGON

**SECTION 5
ATTACHMENTS**

If you are attaching any documents to this report, provide a list:

ATTACHMENT NAME	DESCRIPTION
Final Proof Survey	Claim of Beneficial use map
Quasi-Municipal Water District	Map showing the extents of the quasi-municipal water district pertinent to the irrigation system
Fish Screen Inspection Form	Signed & dated fish screen inspection form for the project
Pump Test	System Pumping Test demonstrating system capacity
2010 Pump Meter Readings	System totalizing meter reading & analysis of total RATE & DUTY
2006 Bussard System As-Built	As Built Irrigation Plan for Old Mill District by Bussard Engineering
Transfer Application T-10291	OWRD Water Transfer Application T-10291

**SECTION 6
CLAIM SUMMARY**

POD / POA NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
Point of Diversion and Fish Screen	0.186 CFS	3.26 CFS	1.66 CFS	Quasi-Municipal	N/A – See Claim of Beneficial Use Map	N/A – See Claim of Beneficial Use Map

**SECTION 7
CLAIM OF BENEFICIAL USE MAP**

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1" = 1320 feet, 1" = 400 feet, or the original full-size scale of the county assessor map for the location.

Provide a general description of the survey method used to prepare the map. Examples of possible methods include, but are not limited to, a traverse survey, GPS, or the use of aerial photos. If the basis of the survey is an aerial photo, provide the source, date, series and the aerial photo identification number.

The COBU map was prepared using existing survey data collected by HWA. This includes GPS, Traverse Survey and Aerial Photos. This drawing is based upon the previous Claim of Beneficial Use submitted to the Department and logged in by the Department 10/10/2007.

 **Map Checklist**

Please be sure that the map you submit includes ALL the items listed below.
(Reminder: Incomplete maps and/or claims may be returned.)

- Map on polyester film.

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MAR 14 2011

WATER RESOURCES DEPT
SALEM, OREGON

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- Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
- Township, Range, Section, Donation Land Claims, and Government Lots
- If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
- Locations of fish screens, fish by-pass devices, meters and measuring devices in relationship to point of diversion or appropriation.
- Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
- Point(s) of diversion or appropriation (illustrated and coordinates)
- Tax lot boundaries and numbers
- Source illustrated if surface water
- Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
- Application and permit number or transfer number
- North arrow
- Legend
- CWRE stamp and signature

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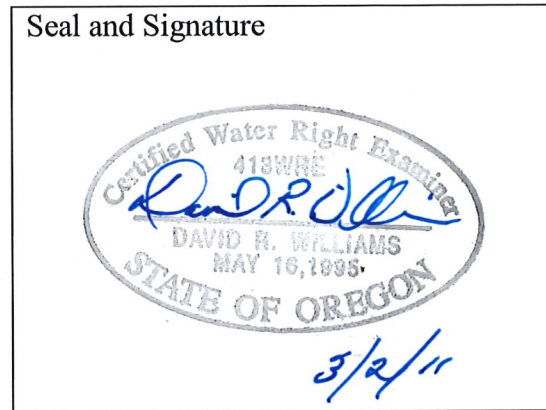
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**SECTION 8
SIGNATURES**

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.



CWRE NAME David R. Williams		PHONE NO. 541.389.9351	ADDITIONAL CONTACT NO.
ADDRESS 62930 OB Riley Road, Suite 100			
CITY Bend	STATE OR	ZIP 97701	E-MAIL davew@hwa-inc.org

Permit or Transfer Holder's of Record Signature or Acknowledgement

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	DATE
	STEVEN C JOHNSON	3 MARCH, 2011
For: Central Oregon Irrigation District (Applicant on Transfer T-10291)		
	WILLIAM L SMITH	3/9/11
For: Millsite Management Company (Receiving Landowner on Transfer T-10291)		

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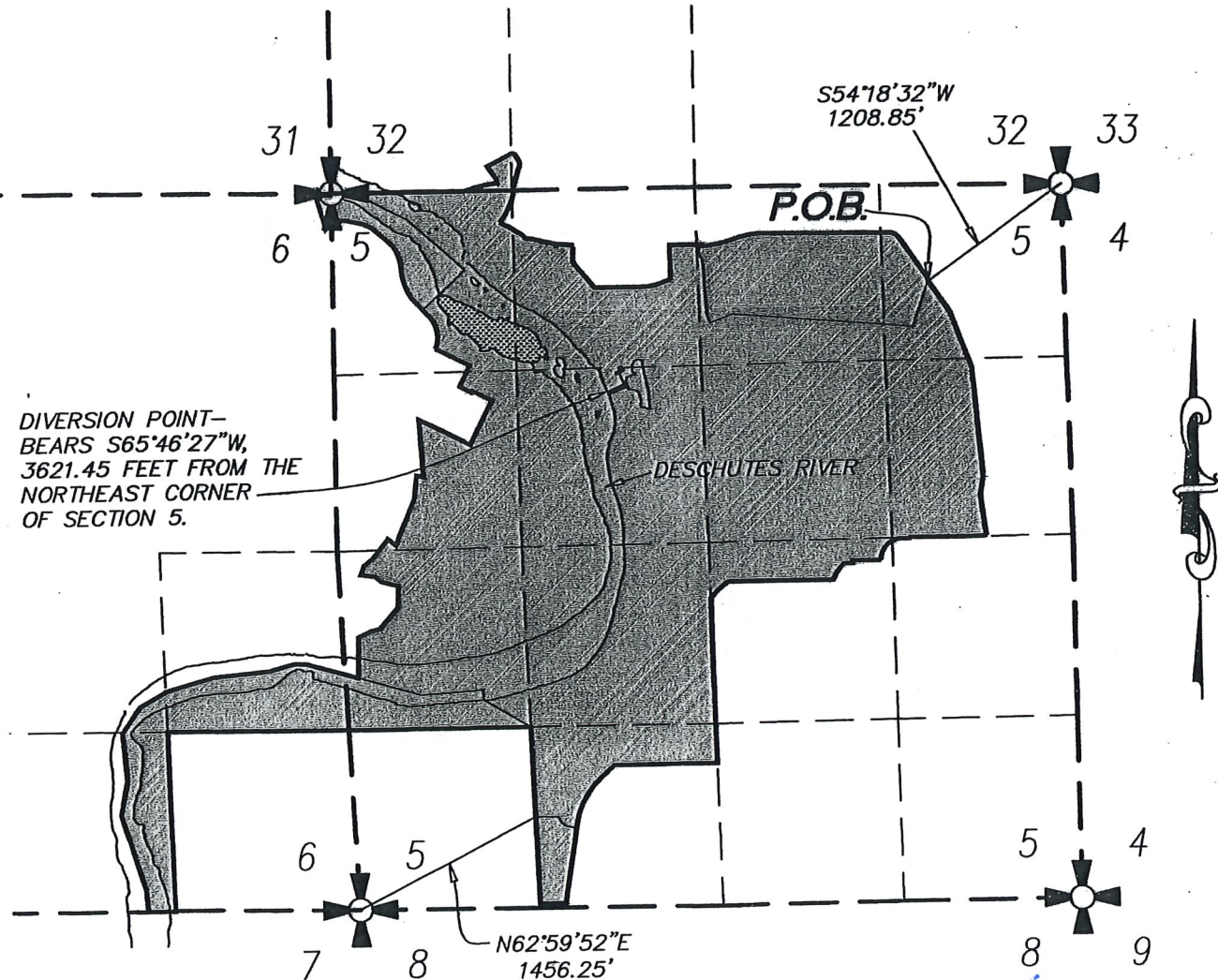
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EXHIBIT F

QUASI-MUNICIPAL WATER DISTRICT FOR: RIVER BEND LIMITED PARTNERSHIP

LOCATED IN SECTIONS 5 AND 6, T18S, R12E, AND
SECTION 32, T17S, R12E, BOTH OF THE WM, CITY OF
BEND, DESCHUTES COUNTY, OREGON



SCALE: 4" = 1 MILE

AREA CONTAINED WITHIN DISTRICT BOUNDARY=
326 ACRES, MORE OR LESS

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12/07/06

12/12/06
OLD MILL DISTRICT/dwg/020609-Old Mill Misc/dwg/h2oRts2001-4.dwg





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SEP 29 2010



OREGON DEPARTMENT OF FISH AND WILDLIFE
OREGON WATER RESOURCES DEPARTMENT

FISH SCREEN INSPECTION FORM

APPLICANT

Name: RIVER BEND LIMITED PARTNERSHIP
Address: 15 S.W. COLORADO AVE - SUITE 1 Phone 541-382-6691
BEND, ORE. 97702
Application Number: T-7574 T9283 T9769 Permit Number: _____
Water Right Amount (cfs) 5.99

DIVERSION

Stream: DESCHUTES RIVER Tributary to: COLUMBIA RIVER

Address (if different than applicants): _____

Diversion Type: GRAVITY Location: T. _____, R. _____, Sec. _____

GPS Coordinates: 44.0470°N 121.3165°W SATS: _____

PUMP INFORMATION

Brand: _____ Horsepower: _____ Intake Size: _____

SCREEN INFORMATION

Type: PANEL SCREEN Installed by: O.D.F.W. Date Installed: 9-22-2009
WITH BRUSH CLEANING SYSTEM

Date of Inspection: 9-22-09 Inspected by: BOB HAIR Agency: ODFW

Comments: _____

- Screen meets current state criteria for fish protection.
- Screen does not meet current state criteria for fish protection.
- Another screen inspection should be done before water use begins.

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Security PROS
 INCORPORATED
 Certified Security Professionals
 389 SW Scalehouse Court, Suite 130
 (Old Mill District) Bend, OR 97702



CONDITION REPORT

CLIENT *Pump Readings*

DATE *4/29/10*

LOCATION *SOMO*

TIME

ADDRESS

CONDITION

Reading 1 at 2200 - 61394340
Reading 2 at 0200 - 61418172
Reading 3 at 0600 - 61429412

(23,832 CF) = 178.275 gal/4HRS
4 HRS 44,569 gal/HR
60 743 GPM

REPORTED BY **X**

CERTIFIED SECURITY OFFICER

BADGE NO.

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BY

[Signature]
 MANAGEMENT SIGNATURE/TITLE *, pms*

9/30/10
 DATE

2010 Pump Meter Readings

April 2010			May 2010			Jun 2010			Jul 2010			Aug 2010			Sep 2010			Oct 2010		
Date	Reading	Diff	Date	Reading	Diff	Date	Reading	Diff	Date	Reading	Diff	Date	Reading	Diff	Date	Reading	Diff	Date	Reading	Diff
Pre Apr 1	51613548	-	1	51904280		1	53300192		1	55234296		1	57940924		1	60218852		1	61462684	
1	51613548	0	2	51935608	31328	2	53338348	38156	2	55303900	69604	2	58021684	80760	2	60282560	63708	2	61513336	50652
2	51613548	0	3	51958264	22656	3	53358936	20588	3	55401592	97692	3	58107716	86032	3	60338640	56080	3	61562776	49440
3	51613548	0	4	51989016	30752	4	53367628	8692	4	55472760	71168	4	58183260	75544	4	60415344	76704	4	61583016	20240
4	51613548	0	5	52008332	19316	5	53379016	11388	5	55539288	66528	5	58257828	74568	5	60465620	50276	5	61634644	51628
5	51613548	0	6	52037708	29376	6	53409940	30924	6	55630796	91508	6	58322996	65168	6	60543004	77384	6	61665952	31308
6	51613548	0	7	52084986	47278	7	53440864	30924	7	55702844	72048	7	58420948	97952	7	60602140	59136	7	61708624	42672
7	51613548	0	8	52132264	47278	8	53521392	80528	8	55793624	90780	8	58485884	64936	8	60629956	27816	8	61725496	16872
8	51613548	0	9	52172520	40256	9	53585764	64372	9	55905512	111888	9	58567860	81976	9	60644304	14348	9	61759524	34028
9	51613548	0	10	52205212	32692	10	53646344	60580	10	56024200	118688	10	58661672	93812	10	60651548	7244	10	61783328	23804
10	51613548	0	11	52248680	43468	11	53695296	48952	11	56106236	82036	11	58732284	70612	11	60666676	15128	11	61793820	10492
11	51613548	0	12	52279360	30680	12	53790436	95140	12	56202500	96264	12	58807784	75500	12	60717248	50572	12	61839584	45764
12	51613548	0	13	52334192	54832	13	53866708	76272	13	56318948	116448	13	58867760	59976	13	60781260	64012	13	61865368	25784
13	51613548	0	14	52385320	51128	14	53936350	69642	14	56402000	83052	14	58935516	67756	14	60859852	78592	14	61885892	20524
14	51623100	9552	15	52452928	67608	15	54025176	88826	15	56489484	87484	15	59003364	67848	15	60905324	45472	15	61939464	53572
15	51623904	804	16	52494812	41884	16	54099124	73948	16	56580636	91152	16	59098004	94640	16	60953092	47768	16	61944612	5148
16	51623904	0	17	52552384	57572	17	54169764	70640	17	56664444	83808	17	59190200	92196	17	60991960	38868			
17	51624100	196	18	52610032	57648	18	54235281	65517	18	56736600	72156	18	59276748	86548	18	61010636	18676			
18	51624100	0	19	52656120	46088	19	54330944	56663	19	56823904	87304	19	59359404	82656	19	61044392	33756			
19	51625816	1716	20	52688024	31904	20	54378378	47434	20	56927504	103600	20	59419692	60288	20	61057576	13184			
20	51629728	3912	21	52723896	35872	21	54425812	47434	21	57010668	83164	21	59504784	85092	21	61065224	7648			
21	51633614	3886	22	52772266	48370	22	54519324	93512	22	57105812	95144	22	59556596	51812	22	61070392	5168			
22	51637500	3886	23	52820636	48370	23	54596244	76920	23	57204476	98664	23	59647572	90976	23	61116676	46284			
23	51641296	3796	24	52852284	31648	24	54743600	147356	24	57321320	116844	24	59722192	74620	24	61155356	38680			
24	51688684	47388	25	52919084	66800	25	54793446	49846	25	57402388	81068	25	59793264	71072	25	61195744	40388			
25	51718096	29412	26	52958960	39876	26	54843292	49846	26	57505788	103400	26	59890988	97724	26	61257708	61964			
26	51746680	28584	27	53008408	49448	27	54913864	70572	27	57587352	81564	27	59963028	72040	27	61278156	20448			
27	51773792	27112	28	53056280	47872	28	54984372	70508	28	57627808	40456	28	60021864	58836	28	61341564	63408			
28	51784604	10812	29	53125860	69580	29	55088332	103960	29	57712928	85120	29	60084184	62320	29	61383512	41948			
29	51811184	26580	30	53196252	70392	30	55160688	72356	30	57772992	60064	30	60150704	66520	30	61429884	46372			
30	51843180	31996	31	53248260	52008	July 2nd	55234296	73608	31	57870068	97076	31	60169880	19176	Oct 1st	61462684	32800			
May 1st	51904280	61100	Jun 1st	53300192	51932				Aug 3rd	57940924	70856	Sept 1st	60218852	48972						

Final - Initial	290732		1395912		1934104		2706628		2277928		1243832		481928
Check (sum Diff)	290732		1395912		1934104		2706628		2277928		1243832		481928

T-10004				T-9769, T-9283, T-7574						T-10644				T-10291									
Allowable Rate (cfs)	Allowable Rate (gpd)	No of Days	Allowable (cf)	Allowable (gal)	Allowable Rate (cfs)	Allowable Rate (gpd)	No of Days	Allowable (cf)	Allowable (gal)	Allowable Rate (cfs)	Allowable Rate (gpd)	No of Days	Allowable (cf)	Allowable (gal)	Allowable Rate (cfs)	Allowable Rate (gpd)	No of Days	Allowable (cf)	Allowable (gal)				
0.000	0.000	0	0	0	0.000	0.000	0	0	0	0.000	0.000	0	0	0	0.000	0.000	0	0	0				
Prior to Apr 1	0.049	31669	30	127008	950083	0.310	200358	30	803518	6010731	0.040	25853	30	103680	775578	0.140	90484	30	362879	2714524			
Apr 1 to May 1	0.065	42010	14	78624	588147	0.410	264989	14	495935	3709849	0.060	38779	14	72576	542905	0.186	120215	14	224985	1683005			
May 1 to May 15	0.121	78204	123	1285888	9619109	0.750	484736	123	7970379	59622577	0.110	71095	123	1168989	8744645	0.345	222979	123	3666374	27426386			
May 15 to Sep 15	0.065	42010	16	89856	672168	0.410	264989	16	566782	4239828	0.600	387789	16	829438	6204626	0.186	120215	16	257126	1923434			
Sep 15 to Oct 1	0.049	31669	31	131241	981753	0.310	200358	31	830302	6211089	0.040	25853	31	107136	801431	0.140	90484	31	374975	2805008			
Oct 1 to Nov 1																							
Total			214	1712616	12811260	Total			214	10666915	79794075	Total			214	2281818	17069184	Total			214	4886339	36552356
Allowable Acre-Feet				5.45	AF				170	AF				34.39	AF				77.58	AF			

Combined Allowable Use				Combined Actual Use				Difference				RATE				DUTY					
(cf)		(gal)		(cf)		(gal)		(cf)		(gal)		2010 Water Right Met Rate Requirements?		2010 Water Right Total Usage		(cf)		(gal)		(acre-feet)	
0	0	0	0	0	0	0	0	0	0	0	0	Yes	Yes	Yes	Yes	Yes	10331064	77276359	237.17		
1397084	10450917	872119	6523906	548648	4104172	1106352	8276090	323471	2419733	5639234	42184399	1185842	8870713	961726	7194209						
14091630	105412716	1743202	13040055	557360	4169343	1185842	8870713	961726	7194209												
1443654	10799281			481928	3605072																
19547689	146226875			10331064	77281731	9216625	68945144					Yes									287.42
				(Checks)																	

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