

Application for a Permit to Use Surface Water



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

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant Information

NAME McMinnville Water & Light ATTN: Paul Elias, General Manager		PHONE 503-472-6158	FAX 503-472-5211
ADDRESS PO Box 638		CELL	
CITY McMinnville	STATE OR	ZIP 97218	E-MAIL pde@mc-power.com

NAME City of Dayton ATTN: Christy Ellis, City Manager		PHONE 503-864-2221	FAX 503-864-2956
ADDRESS PO Box 339		CELL	
CITY Dayton	STATE OR	ZIP 97114	E-MAIL cityofdayton@ci.dayton.or.us

NAME City of Lafayette ATTN: Preston Polasek, City Administrator		PHONE 503-864-2451	FAX
ADDRESS PO Box 55		CELL	
CITY Lafayette	STATE OR	ZIP 97127	E-MAIL prestonp@ci.lafayette.or.us

NAME City of Carlton ATTN: Kathie Oriet, Mayor		PHONE 503-852-7575	FAX 503-852-7761
ADDRESS 191 East Main Street		CELL	
CITY Carlton	STATE OR	ZIP 97111	E-MAIL

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

AGENT / BUSINESS NAME GSI WATER SOLUTIONS, INC. ATTN: ADAM SUSSMAN		PHONE 541-753-0745	FAX 541-754-4211
ADDRESS 1600 SW WESTERN BOULEVARD, SUITE 240		CELL	
CITY CORVALLIS	STATE OR	ZIP 97333	E-MAIL asussman@gsiws.com

Note: Attach multiple copies as needed

NOV 02 2011

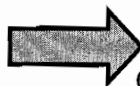
WATER RESOURCES DEPARTMENT
SALEM, OREGON

WR

S-87762

By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application.
- I cannot use water legally until the Water Resources Department issues a permit.
- Acceptance of this application does not guarantee a permit will be issued.
- If I begin construction prior to the issuance of a permit, I assume all risks associated with my actions.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be cancelled.
- The water use must be compatible with local comprehensive land-use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.



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

Paul D. Elias
Applicant Signature

PAUL D. ELIAS GENERAL MANAGER 10-20-11
Print Name and title if applicable Date

Kathie J. Oriet
Applicant Signature

Kathie J. Oriet, Mayor 10/20/11
Print Name and title if applicable Date

Applicant Signature

Print Name and title if applicable Date

Applicant Signature

Print Name and title if applicable Date

App. No. <u>S-87762</u>	For Department Use Permit No. _____	Date _____
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10/20/11

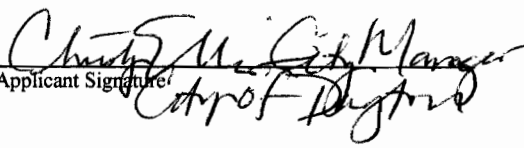
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- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.



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

Applicant Signature	Print Name and title if applicable	Date
	Christy Ellis, City Manager City of Dayton	10/17/11
Applicant Signature	Print Name and title if applicable	Date
Applicant Signature	Print Name and title if applicable	Date

App. No. <u>S-87762</u>	For Department Use
Permit No. _____	Date _____

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- The water use must be compatible with local comprehensive land-use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.



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

Preston Polasek
Applicant Signature

Preston Polasek
City Administrator
Print Name and title if applicable

10-18-11
Date

Applicant Signature

Print Name and title if applicable

Date

Applicant Signature

Print Name and title if applicable

Date

Applicant Signature

Print Name and title if applicable

Date

App. No. <u>S-87762</u>	For Department Use
Permit No. _____	Date _____

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SECTION 2: PROPERTY OWNERSHIP

Please indicate if you own all the lands associated with the project from which the water is to be diverted, conveyed, and used.

☐ Yes

☐ There are no encumbrances.

☐ This land is encumbered by easements, rights of way, roads or other encumbrances.

☒ No **Application made by a public corporation per ORS 537.211(6) .**

☐ I have a recorded easement or written authorization permitting access.

☐ I do not currently have written authorization or easement permitting access.

☐ Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).

☐ Water is to be diverted, conveyed, and/or used only on federal lands.

List the names and mailing addresses of all affected landowners (*attach additional sheets if necessary*).

N/A – The applicants are public corporations

SECTION 3: SOURCE OF WATER

A. Proposed Source of Water

Provide the commonly used name of the water body from which water will be diverted, and the name of the stream or lake it flows into. If unnamed, say so:

Source 1: **Willamette River**

Tributary to: **Columbia River**

Source 2: _____

Tributary to: _____

Source 3: _____

Tributary to: _____

Source 4: _____

Tributary to: _____

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If any source listed above is stored water that is authorized under a water right permit, certificate, or decree, attach a copy of the document or list the document number (for decrees, list the volume, page and/or decree name).

N/A

B. Applications to Use Stored Water **N/A – Applicant is not requesting a permit to use stored water**

Do you, or will you, own the reservoir(s) described in item 3A above?

☐ Yes.

☐ No. (Please enclose a copy of your written notification to the operator of the reservoir of your intent to file this application, which you should have already mailed or delivered to the operator.)

If *all* sources listed in item 3A are stored water, the Department will review your application using the expedited process provided in ORS 537.147, unless you check the box below. Please see the instruction booklet for more information.

☐ By checking this box, you are requesting that the Department process your application under the standard process outlined in ORS 537.150 and 537.153, rather than the expedited process provided by ORS 537.147. To file an application under the standard process, you must enclose the following:

- A copy of a signed non-expired contract or other agreement with the owner of the reservoir (if not you) to impound the volume of water you propose to use in this application.
- A copy of your written agreement with the party (if any) delivering the water from the reservoir to you.

SECTION 4: WATER USE

Provide the amount of water you propose to use from each source, for each use, in cubic feet-per-second (cfs) or gallons-per-minute (gpm). If the proposed use is from storage, provide the amount in acre-feet (af):
(1 cfs equals 448.8 gpm. 1 acre-foot equals 325,851 gallons or 43,560 cubic feet)

SOURCE	USE	PERIOD OF USE	AMOUNT
Willamette River	Municipal	Year round	44.18 ☒ cfs ☐ gpm ☐ af
			☐ cfs ☐ gpm ☐ af
			☐ cfs ☐ gpm ☐ af
			☐ cfs ☐ gpm ☐ af

For irrigation use only: *N/A - This application does not request the use of water for irrigation
Please indicate the number of primary and supplemental acres to be irrigated.

Primary: _____ Acres Supplemental: _____ Acres

List the Permit or Certificate number of the underlying primary water right(s): _____

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: _____

- If the use is **municipal or quasi-municipal**, attach **Form M See Attachment 2**
- If the use is **domestic**, indicate the number of households: _____
- If the use is **mining**, describe what is being mined and the method(s) of extraction:

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SECTION 5: WATER MANAGEMENT

A. Diversion and Conveyance

What equipment will you use to pump water from your source?

☒ Pump (give horsepower and type): It is anticipated that pumps will be used to divert water; however, the specific number, type, specifications, and configuration of the pumps are to be determined.

☐ Other means (describe): _____

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water.

It is anticipated that the design of the diversion will include a on-shore caisson (where the pumps will be located) and a lateral sub-surface pipe that will be supplied by infiltration galleries or intake screens that extend laterally in the subsurface beneath the river bed. However, the exact design and configuration of the diversion has not been set so various modifications may occur.

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler)

N/A - this application is for municipal purposes.

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C. Conservation

Please describe why the amount of water requested is needed and measures you propose to: prevent waste; measure the amount of water diverted; prevent adverse impact to public uses of affected surface waters.

McMinnville Water & Light (MW&L) and City of Lafayette have approved water management and conservation plans (WMCPs) that describe the various conservation measures they will implement. City of Lafayette is in the process of having its updated WMCP reviewed and approved by OWRD. MW&L and the Cities of Carlton, Dayton, and Lafayette understand that a new permit will likely include a requirement to update and/or develop a WMCP within a prescribed period of time.

SECTION 6: RESOURCE PROTECTION

In granting permission to use water from a stream or lake, the state encourages, and in some instances requires, careful control of activities that may affect the waterway or streamside area. See instruction guide for a list of possible permit requirements from other agencies. Please indicate any of the practices you plan to undertake to protect water resources.

- ☒ Diversion will be screened to prevent uptake of fish and other aquatic life.
Describe planned actions: If the design of the diversion requires fish screening and/or bypass, the applicants will install fish screening and/or provide bypass that complies with all applicable state and federal requirements.
- ☒ Excavation or clearing of banks will be kept to a minimum to protect riparian or streamside areas.
Describe planned actions: During construction, any excavation or clearing of banks will be kept to a minimum. Any necessary removal/fill permits or other state or federal authorizations will be obtained. Use of water under this permit will not require excavation or clearing of banks.
- ☒ Operating equipment in a water body will be managed and timed to prevent damage to aquatic life.
Describe: Any in-water work conducted during construction will occur in compliance with the

applicable in-water work periods. Use of water under this permit will not require operating equipment in a water body.

- ☒ Water quality will be protected by preventing erosion and run-off of waste or chemical products. Describe: During construction, water quality will be protected by preventing erosion and run-off. Use of water under this permit will not cause erosion or run-off of waste or chemical products.

SECTION 7: PROJECT SCHEDULE

Date construction will begin: Within 20 years from the date on which the permit is issued

Date construction will be completed: Within 20 years from the date on which the permit is issued

Date beneficial water use will begin: Within 20 years from the date on which the permit is issued

SECTION 8: REMARKS

Use this space to clarify any information you have provided in the application (*attach additional sheets if necessary*).

The rate of water use requested by this application (under Section 4) was developed based on the projected maximum day demand (MDD) in 2032 for each of the applicants. See Attachment 3 for additional details. The requested rate is intended to be sufficient for meeting the entire projected demands of the applicants, thereby providing system redundancy to the applicants' existing water sources, and additional water supply for projected demands. The rate of water requested is associated with the applicants, as follows: City of McMinnville, acting by and through its Water and Light Commisison, 33.1 cfs; City of Dayton 3.1 cfs; City of Lafayette 5.0 cfs; City of Carlton 2.98 cfs. The applicants are in the process of forming a Chapter 190 water delivery organization and intend to assign the water right to that organization once formed.

Attachments

Attachment 1 - Maps (see accompanying map tube)

Attachment 2 - Form M

Attachment 3 - Supporting Documentation

Attachment 4 - Land Use Information Forms

Attachment 5 - Legal Description

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Oregon Water Resources Department

FORM M

FOR MUNICIPAL AND QUASI MUNICIPAL WATER SUPPLIES

Unless otherwise noted, water use information should be in acre-feet per year (AFY).
1 acre-foot is equal to 325,851 gallons.

Background Information

Name of water supplier: City of McMinnville, by and through McMinnville Water & Light (MW&L)

Name and size of area to be served: MW&L service area, 11.8 square miles
(in square miles)

Present population of service area: 33,030 (MW&L 2011 DRAFT WSMP)
(Contact county planning staff, if needed.)

Projected population in 20 years: 51,079 (Projected 2032 service population from MW&L 2011 DRAFT WSMP)
(Cite source and year. For example: "20,595 Based upon 1995 Portland State University projections.")

List present water rights and permits held:

Date of Issuance:	Natural Source of Water:	Amount Permitted:	Utilization:
<u>Refer to Table M-1</u>			

Water Use

Average **yearly** demand: 6,382 AFY Year: 2010

Per-capita daily consumption (in gallons): 173 (average per capita per day from MW&L 2011 DRAFT WSMP)
(Divide average annual water sales by population to arrive at consumption, then divide by 365 to get daily values.)

Peak season (by month/day): 6/1 to 9/30 **Total peak season demand:** 3,191 Acre-feet

Peak season per-capita daily consumption: 259

(Divide total peak season demand by population and the number of days during the peak.)

Annual amount of water:

Produced: 1,720 MG (2010 data from MW&L 2011 DRAFT WSMP)
(diverted or pumped)

Delivered: 1,601 MG (2010 data from MW&L 2011 DRAFT WSMP)

Is your system fully metered? ☒ Yes ☐ No

Describe your rate structure: Dual block, inclining-rate pricing

(e.g. flat rate, increasing or decreasing block rate or combination of different systems)

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Request for Water

A. Discuss the reason(s) for your request for additional water

(e.g. loss of current supply, peak demand, growth, or other):

MW&L obtains its current water supply from streams and two reservoirs located in the Coast Range. MW&L's current sources and water rights are sufficient for meeting present demands and are anticipated to be sufficient to meet near-term demands; however, an alternate source of water is needed as MW&L's current system relies on a single source watershed. In addition, the Willamette River source would provide additional water to meet MW&L's longer-term demands that could exceed their existing source capacity.

B. How long is the amount of water requested in this application expected to meet future needs?

(e.g. until the year 2040) The requested rate of use is based on projected demand in 20 years

C. Briefly discuss operation of water system and the most constraining component of the system:

MW&L obtains its raw water from streams and two reservoirs located in the Coast Range. MW&L's water treatment plant is fed by surface water from these sources and provides the sole source of drinking water for the City of McMinnville. The sole source aspect of MW&L's system is currently the most constraining component of their system. The requested use of water from the Willamette River will provide an alternate source of water for MW&L in the near-term and will provide an additional source of water to meet MW&L's projected longer-term future demands.

D. Percentage of water use by type: (Based on category %s from MW&L 2008 WMCP and MW&L 2011 DRAFT WSMP)

Residential: 49%

Commercial: see "Other"

Public Authority: see "Other"

Agricultural: N/A

Unaccounted for use: 7%

Industrial: see "Other"

Other (specify use): 44%*

*Total of commercial, industrial, and municipal

E. List cost to implement proposed request.

Compare cost and benefits with other water supply, or combination of supply options. This should include water efficiency measures such as replacing current showerheads with low-flow types. (Attach documentation, as available.)

Planning level cost estimates for a Willamette River supply system provided by the Yamhill County Water Supply Analysis (HDR, 2008) range from \$150 to \$350 million (depending on the number of communities to be served). This study also provides cost estimates for several other water supply options for MW&L; however, these options have estimated costs of similar magnitude but do not address the sole-source aspect of MW&L's system. MW&L has implemented a number of conservation efforts and while these efforts assist in maximizing MW&L's efficient use of their existing source, they do not address the sole-source aspect of MW&L's water supply system and projected long-term demands.

F. How and by how much will your proposed water use efficiency programs increase efficiency?

(Express as a percentage of per-capita consumption.)

MW&L's 2008 WMCP (Section 3) outlines a number of water conservation measures that are in place and additional measures for future consideration and implementation. If all of the outline conservation measures were implemented, they could reduce per-capita consumption by up to 0.6% over 10 years; however, the conservation efforts would not address the sole-source aspect of MW&L system.

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Last revision: March 26, 2009

S-87762



Oregon Water Resources Department

FORM M

FOR MUNICIPAL AND QUASI MUNICIPAL WATER SUPPLIES

Unless otherwise noted, water use information should be in acre-feet per year (AFY).

1 acre-foot is equal to 325,851 gallons.

Background Information

Name of water supplier: City of Dayton (City)

Name and size of area to be served: City service area, 1.3 square miles
(in square miles)

Present population of service area: 2,495 (2010, PSU Population Research Center, Certified 12/31/2010)
(Contact county planning staff, if needed.)

Projected population in 20 years: 4,060 (Projected 2030 population from City 2010 WSMP)
(Cite source and year. For example: "20,595 Based upon 1995 Portland State University projections.")

List present water rights and permits held:

Date of Issuance:	Natural Source of Water:	Amount Permitted:	Utilization:
<u>Refer to Table M-1</u>			

Water Use

Average **yearly** demand: 411 AFY Year: 2006-2010

Per-capita daily consumption (in gallons): 147 (per capita per day from City 2010 WSMP)
(Divide average annual water sales by population to arrive at consumption, then divide by 365 to get daily values.)

Peak season (by month/day): 6/1 to 9/30 **Total peak season demand:** 205 Acre-feet

Peak season per-capita daily consumption: 220

(Divide total peak season demand by population and the number of days during the peak.)

Annual amount of water:

Produced: 171 MG (2008 data from the City's 2010 WSMP)
(diverted or pumped)

Delivered: Information not available

Is your system fully metered? ☒ Yes ☐ No

Describe your rate structure: Fixed base charge with additive block volume charges
(e.g. flat rate, increasing or decreasing block rate or combination of different systems)

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WATER

S-87762

Request for Water

A. Discuss the reason(s) for your request for additional water

(e.g. loss of current supply, peak demand, growth, or other):

The City's current sources of water are insufficient for meeting projected future demands. According to the City's 2010 WSMP, the total long term production rate from the City's current sources of water is essentially equal to the present MDD. Due to concerns about the sustainability of the City's water sources and the ability to increase production from these sources to meet future demand, the City is seeking an additional source of water to provide system redundancy and to meet projected future demands.

B. How long is the amount of water requested in this application expected to meet future needs?

(e.g. until the year 2040) The requested rate of use is based on projected demand in 20 years

C. Briefly discuss operation of water system and the most constraining component of the system:

The City obtains its water supply from both springs and wells (both wells separate from and included within the Dayton-Lafayette wellfield). The most constraining component of the system is the quantity of water available from these sources during the peak use season. According to the City's 2010 WSMP, the total rate allowed by the City's water rights is 2,389 gpm while only 558 gpm can be produced during the peak use season. In addition, declining groundwater levels and concerns about the viability of continued development of groundwater to meet future demands warrants planning for an additional long-term source of water for the City.

D. Percentage of water use by type: (Data from City 2010 WSMP)

Residential: 94% (single family only)*

Commercial: Combined in "Other"

Public Authority: Combined in "Other"

Agricultural: N/A

Unaccounted for use: Information not available

Industrial: Combined in "Other"

Other (specify use): 6%*

*These %s are based on service connections, not usage.

E. List cost to implement proposed request.

Compare cost and benefits with other water supply, or combination of supply options. This should include water efficiency measures such as replacing current showerheads with low-flow types. (Attach documentation, as available.)

Planning level cost estimates for a Willamette River supply system provided by the Yamhill County Water Supply Analysis (HDR, 2008) range from \$150 to \$350 million (depending on the number of communities to be served). This HDR study and the City's 2010 WSMP provide some alternative water supply options (and cost estimates) for the City. Well and spring rehabilitation, continued groundwater development, and water conservation may help the City maximize use of its current water sources for meeting current demands, but an additional source of water will be needed by the City to meet near-term and long-term demands.

F. How and by how much will your proposed water use efficiency programs increase efficiency?

(Express as a percentage of per-capita consumption.)

According to a regional water supply study for Yamhill County (HDR, 2008), a well implemented water conservation program could help reduce water consumption by 5-10%. The City's 2010 WSMP highlights the use of water conservation as a tool for helping the City manage its current water sources to help meet its growing water demands and encourages development of a long-term water conservation program. However, while water conservation and maintenance, and further development of the City's existing sources will be very important for the City in meeting near term demands, an additional source of water will be needed by the City to meet long-term demands and to provide a redundant supply.

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Last revision: March 26, 2009

WATER USE EFFICIENCY

S-87162



Oregon Water Resources Department

FORM M

FOR MUNICIPAL AND QUASI MUNICIPAL WATER SUPPLIES

Unless otherwise noted, water use information should be in acre-feet per year (AFY).

1 acre-foot is equal to 325,851 gallons.

Background Information

Name of water supplier: City of Lafayette (City)

Name and size of area to be served: City service area, 0.9 square miles
(in square miles)

Present population of service area: 3,920 (2010, PSU Population Research Center, Certified 12/31/10.)
(Contact county planning staff, if needed.)

Projected population in 20 years: 5,576 (Projected 2026 population from City 2007 WSMP)
(Cite source and year. For example: "20,595 Based upon 1995 Portland State University projections.")

List present water rights and permits held:

Date of Issuance:	Natural Source of Water:	Amount Permitted:	Utilization:
<u>Refer to Table M-1</u>			

Water Use

Average **yearly** demand: 300 AFY Year: 2003-2005

Per-capita daily consumption (in gallons): 68

(Divide average annual water sales by population to arrive at consumption, then divide by 365 to get daily values.)

Peak season (by month/day): 6/1 to 9/30 **Total peak season demand:** 120 Acre-feet

Peak season per-capita daily consumption: 82

(Divide total peak season demand by population and the number of days during the peak.)

Annual amount of water:

Produced: 96.9 MG (2005 data from the City's 2007 WSMP)
(diverted or pumped)

Delivered: 74.4 MG (2005 data from the City's 2007 WSMP)

Is your system fully metered? ☒ Yes ☐ No

Describe your rate structure: Fixed base charge with additive block volume charges

(e.g. flat rate, increasing or decreasing block rate or combination of different systems)

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WATER DIVISION
CLERK, CLERK

S-87762

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Request for Water

A. Discuss the reason(s) for your request for additional water

(e.g. loss of current supply, peak demand, growth, or other):

The City's current sources of water do not supply the quantity of water needed to meet existing and projected future demands. According to the City's 2007 WSMP, the City's current ADD and MDD exceed the City's firm water supply capacity during the peak use season. Due to concerns about the sustainability of the City's water sources and the ability to increase production from these sources to meet future demand, the City is seeking an additional source of water to provide system redundancy and to help meet future demands.

B. How long is the amount of water requested in this application expected to meet future needs?

(e.g. until the year 2040) The requested rate of use is based on projected demand in 20 years

C. Briefly discuss operation of water system and the most constraining component of the system:

The City obtains its water supply from both springs and wells (both wells separate from and included within the Dayton-Lafayette wellfield). The most constraining component of the system is the quantity of water available from these sources during periods the peak use season. According to the City's 2007 WSMP, the total rate allowed by the City's water rights is 1,435 gpm while only 181 gpm can be produced during the peak use season. In addition, declining groundwater levels and concerns about the viability of continued development of groundwater to meet future demands warrants planning for an additional long-term source of water for the City.

D. Percentage of water use by type: (Based on 2005 and 2006 data from the City's 2007 WSMP)

Residential: 75%*

Commercial: 2% (including schools)*

Public Authority: See "Commercial"

Agricultural: N/A

Unaccounted for use: 23%

Industrial: 0%

Other (specify use): _____

*Note: %s (residential and commercial) based on assumed proportionality to number of service connections

E. List cost to implement proposed request.

Compare cost and benefits with other water supply, or combination of supply options. This should include water efficiency measures such as replacing current showerheads with low-flow types. (Attach documentation, as available.)

Planning level cost estimates for a Willamette River supply system provided by the Yamhill County Water Supply Analysis (HDR, 2008) range from \$150 to \$350 million (depending on the number of communities to be served). This study and the City's 2007 WSMP provide some alternative water supply options (and cost estimates) for the City; however, while continued groundwater development and water conservation can help the City maximize efficient use of its current water sources for meeting current demands, an additional source of water will be needed by the City to meet near-term and long-term future demands and to have a redundant source of supply.

F. How and by how much will your proposed water use efficiency programs increase efficiency?

(Express as a percentage of per-capita consumption.)

According to a regional water supply study for Yamhill County (HDR, 2008), a well implemented water conservation program could help reduce water consumption by 5-10%. The City has an approved WMCP and OWRD is currently reviewing the City's WMCP update, which will include a plan for implementation of water conservation measures. The City's 2007 WSMP highlights that while water conservation, maintenance, and further development of the City's existing sources will be very important for the City in meeting current demands, an additional source of water will be needed by the City to meet near-term and long-term future demands and to have a redundant source of supply.

S-87762



Oregon Water Resources Department

FORM M

FOR MUNICIPAL AND QUASI MUNICIPAL WATER SUPPLIES

Unless otherwise noted, water use information should be in acre-feet per year (AFY).

1 acre-foot is equal to 325,851 gallons.

Background Information

Name of water supplier: City of Carlton

Name and size of area to be served: City of Carlton service area, 0.9 square miles
(in square miles)

Present population of service area: 1,805 (2010, PSU Population Research Center, Certified 12/31/2010)
(Contact county planning staff, if needed.)

Projected population in 20 years: 2,149 (Estimated 2032 population from HDR, 2008)
(Cite source and year. For example: "20,595 Based upon 1995 Portland State University projections.")

List present water rights and permits held:

Date of Issuance:	Natural Source of Water:	Amount Permitted:	Utilization:
<u>Refer to Table M-1</u>			

Water Use

Average **yearly** demand: 368 AFY Year: 2010

Per-capita daily consumption (in gallons): 182 (per capita per day from HDR, 2008)
(Divide average annual water sales by population to arrive at consumption, then divide by 365 to get daily values.)

Peak season (by month/day): 6/1 to 9/30 **Total peak season demand:** 184 Acre-feet

Peak season per-capita daily consumption: 272

(Divide total peak season demand by population and the number of days during the peak.)

Annual amount of water: The City is currently working on an updated Water
Produced: System Master Plan. This specific information is
(diverted or pumped) not available at this time. The City's maximum rate
Delivered: of water demand to date is documented as 2.91 cfs.

Is your system fully metered? ☒ Yes ☐ No

Describe your rate structure: Fixed base charge with additive block volume charges
(e.g. flat rate, increasing or decreasing block rate or combination of different systems)

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Request for Water

NOV 02 2011

A. Discuss the reason(s) for your request for additional water

(e.g. loss of current supply, peak demand, growth, or other):

The City obtains its current water supply from one stream and one reservoir located in the Coast Range. Although the City's current source and water rights are generally sufficient for meeting present demands, an alternate redundant source of water is needed as the City's current system relies on a single source watershed of limited capacity. In addition, this source would provide additional water to meet the City's near-term and long-term future demands that will likely exceed their existing source capacity.

B. How long is the amount of water requested in this application expected to meet future needs?

(e.g. until the year 2040) The requested rate of use is based on projected demand in 20 years

C. Briefly discuss operation of water system and the most constraining component of the system:

The City obtains its current water supply from a stream and reservoir located in the Coast Range. The most constraining component of the system is the quantity of water available from these existing sources needed to meet current and projected demands due to streamflow limitations. According to a regional water supply study (HDR, 2008), the City appears to have sufficient "water rights" to meet future demands but the water source is capacity limited. As a result, the City will need an alternate source of water to meet near-term and long-term future demands and to have a redundant source of supply.

D. Percentage of water use by type:

Residential: Information not available*

Commercial: Information not available*

Public Authority: Information not available*

Agricultural: Information not available*

Unaccounted for use: Information not available*

Industrial: Information not available*

Other (specify use): _____

*The City is currently working on an updated Water System Master Plan.

E. List cost to implement proposed request.

Compare cost and benefits with other water supply, or combination of supply options. This should include water efficiency measures such as replacing current showerheads with low-flow types. (Attach documentation, as available.)

Planning level cost estimates for a Willamette River supply system provided by the Yamhill County Water Supply Analysis (HDR, 2008) range from \$150 to \$350 million (depending on the number of communities to be served). This study provides some alternative water supply options (and cost estimates) for the City; however, while water conservation can help the City maximize efficient use of its current water sources for meeting near-term demands, further development of the City's existing water sources will likely be difficult due to streamflow limitations and an additional source of water will be needed by the City to have a alternate supply and to meet future demands.

F. How and by how much will your proposed water use efficiency programs increase efficiency?

(Express as a percentage of per-capita consumption.)

According to a regional water supply study for Yamhill County (HDR, 2008), a well implemented water conservation program could help reduce water consumption by 5-10%. The City has not yet developed a WMCP; however, it is expected that the City will likely need to develop a WMCP as a condition of this new water right which will include a plan for implementation of water conservation measures. While water conservation and maintenance of the City's existing source will be very important for the City in meeting near-term demands, an additional source of water will be needed by the City to meet longer-term future demands and to provide source redundancy.



CH2M HILL
1100 NE Circle Blvd.
Suite 300
Corvallis, OR 97330
Tel 541-768-3413

October 20, 2011

Marci Humlie
McMinnville Water & Light
PO Box 638
855 Marsh Lane
McMinnville, OR 97128

RECEIVED
NOV 02 2011
WATER DIVISION

Subject: McMinnville Water & Light—Willamette River Regional Water Rights Application

Dear Marci:

Based on our recent discussions, I am providing this supporting information for McMinnville Water & Light's (MW&L's) Willamette River water rights application.

Over the past year, CH2M HILL has been the consultant providing assistance to MW&L with preparation of the 2011 *Water System Master Plan* update. As explained in Section 3 of the draft master plan, projections for future MW&L demands were based on published Yamhill County population projections, although these projections were adjusted downward for the period 2011 through 2015 to reflect the current economic recession. A growth rate of 1.5% per year was applied through 2025. This rate was adjusted to 3.1% through 2050 in accordance with Yamhill County projections.

By applying these growth rates, MW&L's maximum day demand is anticipated to grow from a current value of approximately 13 million gallons per day (mgd) to greater than 20 mgd in 2032. It is projected to reach approximately 35 mgd in 2050.

As described in Section 6 of the draft master plan, MW&L's reliable watershed yield has been estimated as 30 mgd. The capacities of MW&L's current facilities (transmission pipelines and water treatment plant) limit production to below this value. MW&L's master plan includes capital projects to expand these facilities to eventually allow full development of the watershed. However, the demand projections indicate that the system demands will exceed the reliable watershed yield in the foreseeable future.

The draft master plan as well as the July 2007 *Norman R. Scott Water Treatment Plant Facility Plan* highlight the importance of developing a second water supply for MW&L. Currently, all of MW&L's water is obtained from a single watershed, through a single water treatment plant, and through long transmission pipelines. The system is vulnerable to drought, source water quality problems (such as by fire, major slides, or algal toxins), or failures of the treatment plant or transmission pipelines. Development

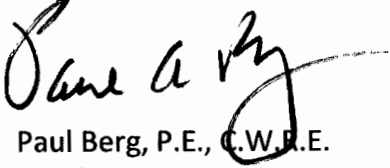
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of a second source would add reliability and is a prudent step to take. A Willamette River water right would provide for an alternate water supply source in the near term and prepare MW&L for growth in the future.

I have attached relevant sections of the current draft Water System Master Plan update for reference. Please let me know if you need any additional information.

Sincerely,

CH2M HILL

A handwritten signature in black ink, appearing to read "Paul Berg", is written over the printed name.

Paul Berg, P.E., C.W.R.E.

MW&L Water System Master Plan Project Manager

Enclosure – Excerpts from draft Water System Master Plan

c: GSI Water Solutions

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2011 Draft Water Master Plan Excerpts

Water Needs (Page 3-12ff)

3.7 Projected Water Demands

The per capita demand approach was used for projecting demands within MW&L's water system. Per capita demand values were multiplied by service area population projections to estimate future demands. The average per capita ADD value for the period 2000 to 2010 was approximately 170 gpcd. Multiplying the per capita ADD by an average MDD to ADD peaking factor for the period of 2.3 yields an average per capita MDD of approximately 400 gpcd. A per capita value of 400 gpcd, while representative for the past ten years, is significantly higher than the values of 308 and 289 gpcd for 2010 and 2011. Reasons for the lower per capita values in 2010 and 2011 have been presented earlier in this chapter. The drop from earlier years suggests that it will be important for MW&L to carefully track water use and service population in the coming years, and to adjust the timing for capital projects accordingly.

Population growth rates from Scenario 3 from the April 7, 2008, *Yamhill County Water Supply Analysis* were used to project service area population growth. In Scenario 3, the City of McMinnville urban growth boundary (UGB) is expanded during the planning period. Prior to UGB expansion, constraints of the UGB reduce the population growth rate, for the period 2015 through 2025, to half of the rate derived from unconstrained, historical population growth between 1990 and 2000 (U.S Census).

The recent economic downturn has reduced the rate of development and population growth below Scenario 3 projections for the period 2010 through 2015. Therefore, for the purposes of this master plan, the reduced growth rate originally anticipated to begin in 2015, was applied beginning in 2011. By 2025, improvements in the economy and UGB expansion are expected to allow the growth rate to return to the pre-2000 historical value.

MW&L expects much of their residential development and population growth to occur in the hills west of the city, in areas to be served by a second level service zone. The UGB is expected to be expanded in this direction, rather than uniformly, to preserve the relatively flat, valley land for agriculture.

3.7.1 Projection Criteria and Maximum Day Demand Allowances

Exhibit 3-11 summarizes the criteria used for projecting future demands. Because the MDD fluctuates from year to year, primarily related to summer weather conditions but also in response to economic conditions and other factors, an allowance of 1 mgd above the projected MDD is shown. This allowance provides a reminder of the variability that can be expected in water demands, particularly summer peak demands.

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EXHIBIT 3-11

Demand Projection Criteria for MW&L Water System Service Area

Criterion	Value
2010 city population	32,930
2010 out of city population	100
2010 service population	33,030
Buildout population	Not Determined
Per capita ADD	170 gpcd
Per capita MDD	400 gpcd
Rate of population growth 2011 to 2025	1.5 percent
Rate of population growth 2026 to 2050	3.1 percent
MDD allowance	1.0 mgd

3.7.2 System-Wide Projections

Exhibit 3-12 provides tabular and **Exhibit 3-13** provides graphic demand projections, through 2050. According to the projections, MDD could approach 30 mgd by 2044. The 30 mgd value represents the approximate watershed yield and the build out capacity of the Scott WTP. By 2050, the projected ADD is 15.0 mgd, and the projected MDD is 35.4 mgd. Demand projections represent a “best guess” of future conditions. Periodic review, and revision of projections as necessary, is recommended.

EXHIBIT 3-13

Projected Service Population, ADD, MDD, and MDD plus 1-mgd Allowance, 2010 to 2050

Year	Service Area Population	ADD Projections	MDD Projections	MDD + 1-mgd Allowance
2010	33,030	5.6	13.2	14.2
2011	33,524	5.7	13.4	14.4
2012	34,025	5.8	13.6	14.6
2013	34,534	5.9	13.8	14.8
2014	35,051	6.0	14.0	15.0
2015	35,575	6.0	14.2	15.2
2016	36,107	6.1	14.4	15.4
2017	36,647	6.2	14.7	15.7
2018	37,195	6.3	14.9	15.9
2019	37,752	6.4	15.1	16.1

EXHIBIT 3-13

Projected Service Population, ADD, MDD, and MDD plus 1-mgd Allowance,
2010 to 2050

Year	Service Area Population	ADD Projections	MDD Projections	MDD + 1-mgd Allowance
2020	38,317	6.5	15.3	16.3
2021	38,890	6.6	15.6	16.6
2022	39,472	6.7	15.8	16.8
2023	40,062	6.8	16.0	17.0
2024	40,662	6.9	16.3	17.3
2025	41,270	7.0	16.5	17.5
2026	42,546	7.2	17.0	18.0
2027	43,862	7.5	17.5	18.5
2028	45,219	7.7	18.1	19.1
2029	46,618	7.9	18.6	19.6
2030	48,060	8.2	19.2	20.2
2031	49,546	8.4	19.8	20.8
2032	51,079	8.7	20.4	21.4
2033	52,660	9.0	21.1	22.1
2034	54,289	9.2	21.7	22.7
2035	55,969	9.5	22.4	23.4
2036	57,701	9.8	23.1	24.1
2037	59,486	10.1	23.8	24.8
2038	61,327	10.4	24.5	25.5
2039	63,225	10.7	25.3	26.3
2040	65,182	11.1	26.1	27.1
2041	67,200	11.4	26.9	27.9
2042	69,280	11.8	27.7	28.7
2043	71,424	12.1	28.6	29.6
2044	73,635	12.5	29.5	30.5
2045	75,915	12.9	30.4	31.4
2046	78,265	13.3	31.3	32.3
2047	80,688	13.7	32.3	33.3
2048	83,187	14.1	33.3	34.3

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EXHIBIT 3-13
Projected Service Population, ADD, MDD, and MDD plus 1-mgd Allowance,
2010 to 2050

Year	Service Area Population	ADD Projections	MDD Projections	MDD + 1-mgd Allowance
2049	85,762	14.6	34.3	35.3
2050	88,418	15.0	35.4	36.4

EXHIBIT 3-13
Projected ADD, MDD, and MDD plus 1-mgd Allowance, 2010 to 2050

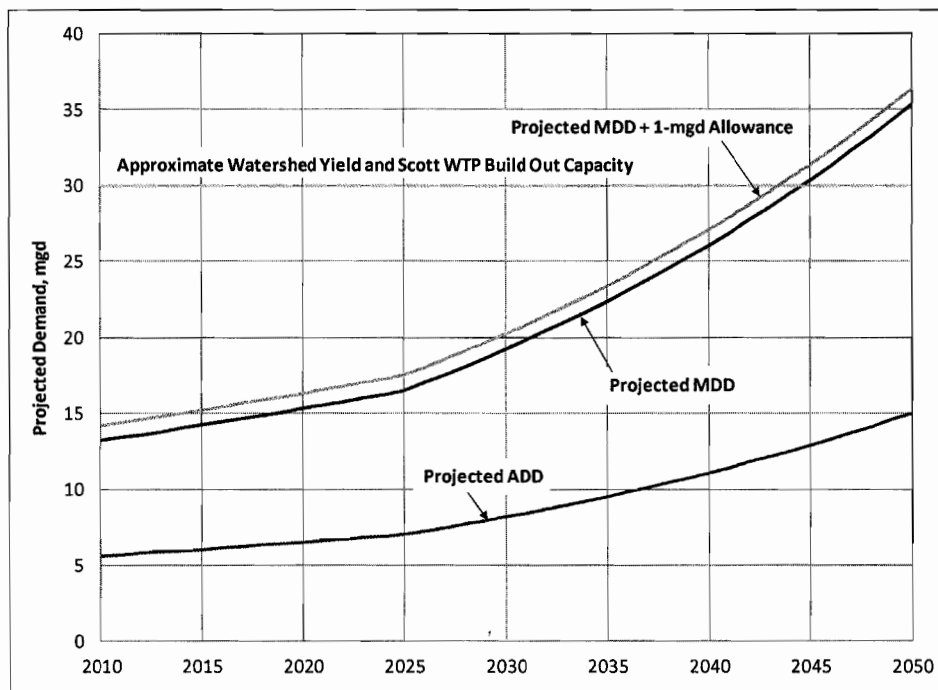
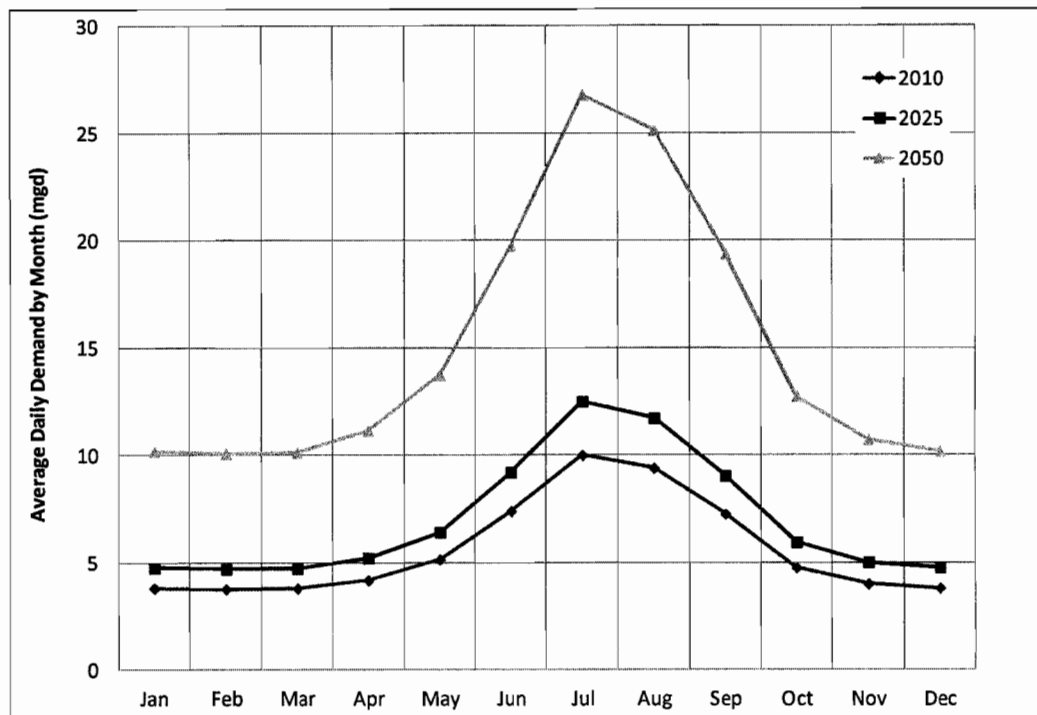


Exhibit 3-14 shows projected monthly demands for the years 2010, 2025, and 2050. These projections were obtained by multiplying average monthly production as a percentage of annual production for the period 2000 to 2010 by the ADD projections shown in Exhibits 3-12 and 3-13.

EXHIBIT 3-14

Projected Monthly Average Daily Demand by Month, 2010, 2025, 2050



Regionalization (Page 6-6ff)

6.5 Regionalization and Willamette River Supply

Based on demand projections presented in Section 3 Water Requirements, MW&L has water rights and water supply sufficient to meet water demand through approximately 2043. However, MW&L does not have a redundant water supply. All water currently is treated at a single location, the Scott WTP, and flows through ten miles of transmission pipeline(s) with potential vulnerabilities. Failure of either the Scott WTP or key sections of the transmission system would stop water supply. Furthermore, a catastrophic event in the watersheds feeding the Haskins and McGuire Reservoirs could severely limit supply. As a result, it is prudent for MW&L to pursue opportunities to obtain access to a redundant water supply that will also meet its long-term needs. MW&L's neighboring communities, the Cities of Carlton, Dayton, and Lafayette, also need redundant and additional water supplies. These communities have experienced shortages of available water supply from their water supply sources.

MW&L and the neighboring cities, and other water suppliers in Yamhill County, participated in the Yamhill County Water Supply Analysis (April 2008), which compared each community's projected water demands through 2050 with its existing reliable water supply under various demand projection scenarios. Relying on published per capita demand factors and population projections provided by the municipalities, the Yamhill County Water Supply Analysis concluded that by 2050, all of the communities'

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WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

August 29, 2011

Mr. Adam Sussman
GSI Water Solutions
1600 Western Blvd, Suite 240
Corvallis, OR 97333

RE: Lafayette Willamette River Water Right Application
JO. 1897.1111.0

Dear Adam:

Based on our recent meeting, this letter provides some background information on Lafayette's water use demand projections as they relate to the water right amounts being requested. References to the Water Master Plan (WMP) below are to the 2007 Lafayette Water Master Plan (approved by the Oregon Drinking Water Program in March 2007).

Although not directly related to the water rights amounts, you may want to note in the water rights application narrative that one of the stipulations of the May 2000 Settlement Agreement (for the joint Lafayette/Dayton wellfield) was that both Lafayette and Dayton committed to *"integrate into the Cities' ongoing water master planning. . . a preference for regional water supply development to meet future needs"* (WMP 4.2.2.2, WMP 6.4.3, settlement agreement #2b). This water rights application is a major step in fulfilling this commitment.

There are several issues we discussed relative to the water master plan projections that have a bearing on the future water demand projections.

- The 2007 Lafayette WMP assumed that no significant development would occur within the study area that would require major changes to the existing zoning, and that there would be no significant expansions of the UGB within the study period. Changes in any of these assumptions will change the recommendations contained in this master plan (WMP 2.1, 3rd paragraph). Since the existing undeveloped residential land within the UGB has largely been developed, and it is anticipated that the City will expand the UGB well before the end of the current 20 year planning horizon, the WMP projections will likely increase (similar to Scenario 3 in the 2008 Yamhill County Water Supply Analysis, with the UGB expansion assumed to occur prior to 2025).
- Due to the water supply issues, implicit in the above assumption is that any new commercial or industrial developments will be "dry" (WMP 5.5, 2nd paragraph). One of the reasons for the assumption was that at the time the WMP was completed, there were no solid options on the horizon for obtaining additional water sources, and water availability was expected to minimize (or prevent) the ability of the City to attract significant commercial or industrial developments.

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In addition, the following issues are water system operational constraints that affect the amount of the water right being requested by the City.

- Per our discussions, water rights are granted based on a maximum permissible “instantaneous” water withdrawal/diversion rate (ie. diversion in cfs), whereas most water system peak use projections are based on maximum “daily” demands (ie. MDD, projected maximum water use over a 24 hour period, excluding fire flows). It is well established that water usage varies significantly across the 24 hour period. Additionally, water supply and treatment facilities typically do not produce finished water continuously during the entire 24 hour period (due to systems being offline for backwashing, routine maintenance, etc.). For purposes of this analysis, we assume that the new source, a regional WTP and any required pumping facilities will be in operation and will deliver water to the City for approximately 18 hours a day (ie. 75% of the day).
- As noted above, maximum day demand (MDD) projections typically exclude fire flow events. While the actual flows required for fighting fires are typically drawn from finished water storage reservoirs, these storage reservoirs must be refilled (after a fire flow event) from the water supply sources. Standard water system design recommendations include the following:
 - Two or more sources of water supply should be developed with a total capacity to replenish depleted fire suppression storage within a 72-hour period while concurrently supplying MDD.
 - Water systems should be provided with redundancy to ensure that demands can be met even if secondary sources are out of service. As such, the new water rights request should be based on the assumption that the City will need to be able to satisfy the maximum day demands (as summarized herein) from the new regional water supply source.
 - As noted in the WMP (5.6 & 6.4.2), design fire flows are established by the City’s Public Works Design Standards, with fire storage volume calculated by multiplying the design fire flow rate by its required duration. For a given fire flow, the Oregon Fire Code stipulates a required design duration (OFC Table B105.1). Based on a design fire flow of 4,000 gpm, a design duration of 4 hours is required (under the OFC), which equates to a total design fire flow volume of 960,000 gallons (WMP 6.4.2). To replenish this amount over 3 days will require 0.32 mgd (above and beyond the MDD required flows). While not anticipated in the near term, it is assumed that the City will construct additional water storage facilities during the 20 year planning horizon.
 - It is important to note that the relative impact due to fire storage replenishment is proportionally much greater for small water systems than it is for larger systems (ie. the design fire flow volumes are based on structure size and type, rather than on population).

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August 29, 2011
Mr. Adam Sussman
GSI Water Solutions
Page 3

Water Rights Request

Based on the City's existing demand projections summarized below, we recommend that the City of Lafayette request a water right of 5.0 cfs (± 3.25 mgd) from the Willamette River, with finished water to be provided by a future regional water treatment plant. The assumed water use projections listed below are through the end of 2032.

The following is a summary of the basis for the demand projections on which this request is based.

- 2032 MDD projection (projected forward from 2007 WMP) = 1.94 mgd
 - Additional MDD projections based on anticipated $\pm 10\%$ UGB expansion = 0.19 mgd
 - Requirements to replenish fire flow storage over 3 days = 0.32 mgd
- Total projected MDD in 2032 = 2.45 mgd (see below)

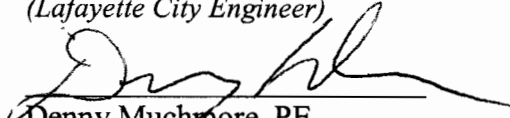
Based on the assumption that the future WTP will provide finished water to the system for approximately 18 hours/day (including allowances for filter backwashing, process water, etc.), the maximum instantaneous diversion flowrate would be 3.25 mgd (5.0 cfs).

If you have any questions or need any additional information regarding this matter, please contact us at (503) 585-2474.

Sincerely,

WESTECH ENGINEERING, INC.

(Lafayette City Engineer)


Denny Muchmore, PE

drm
encl.

- Mr. Preston Polasek, Lafayette City Administrator
- Mr. Jim Anderson, Lafayette Public Works



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WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

August 29, 2011

Mr. Adam Sussman
GSI Water Solutions
1600 Western Blvd, Suite 240
Corvallis, OR 97333

NOV 02 2011

RE: Dayton Willamette River Water Right Application
JO. 2609.1011.0

Dear Adam:

Based on our recent meeting, this letter provides some background information on Dayton's water use demand projections as they relate to the water right amounts being requested. References to the Water Master Plan (WMP) below are to the 2010 Dayton Water Master Plan (approved by the Oregon Drinking Water Program in February 2011).

Although not directly related to the water rights amounts, you may want to note in the water rights application narrative that one of the stipulations of the May 2000 Settlement Agreement (for the joint Dayton/Lafayette wellfield) was that both Dayton and Lafayette committed to "*integrate into the Cities' ongoing water master planning. . . a preference for regional water supply development to meet future needs*" (WMP 4.2.2.2, WMP 6.4.3, settlement agreement #2b). This water rights application is a major step in fulfilling this commitment.

There are several issues we discussed relative to the water master plan projections that have a bearing on the future water demand projections.

- The 2010 Dayton WMP assumed that no significant development would occur within the study area that would require major changes to the existing zoning, and that there would be no significant expansions of the UGB within the study period. Changes in any of these assumptions will change the recommendations contained in this master plan (WMP 2.1). If the City designates additional industrial land for development, the WMP projections will likely increase.
- Due to the water supply issues, implicit in the above assumption is that any new commercial or industrial developments will be "dry" (WMP 5.5.1, 3rd bullet). One of the reasons for the assumption was that at the time the WMO was completed, there were no solid options on the horizon for obtaining additional water sources, and water availability was expected to minimize (or prevent) the ability of the City to attract significant commercial or industrial developments (WMP 2.6.1, WMP 5.3.2).

As Christy Ellis (City Manager) pointed out, the City has a desire to attract additional commercial or industrial development to provide employment opportunities for the residents of Dayton, particularly when additional water sources become available. Upon completion of the

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pending Newberg-Dundee bypass and resolution of some of the associated transportation issues, the City feels that there may be opportunities for significant additional commercial or industrial development in Dayton. Assuming availability of additional water sources, the City has expressed a desire to attract industrial processing facilities which may be other than dry. At this point, we are assuming that such an industrial user may utilize up to about 10% of the City maximum day demand projections, but assume that it will not increase the peak hour demands by more than about 3% (ie. assumes that the time of the peak hour industrial flows will be offset from the time of the peak hour domestic flows).

In addition, the following issues are water system operational constraints that affect the amount of the water right being requested by the City.

- Per our discussions, water rights are granted based on a maximum permissible “instantaneous” water withdrawal/diversion rate (ie. diversion in cfs), whereas most water system peak use projections are based on maximum “daily” demands (ie. MDD, projected maximum water use over a 24 hour period, excluding fire flows). It is well established that water usage varies significantly throughout the 24 hour period. Additionally, water supply and treatment facilities typically do not produce finished water continuously during the entire 24 hour period (due to systems being offline for backwashing, routine maintenance, etc.). For purposes of this analysis, we assume that the new source, a regional WTP and any required pumping facilities will be in operation and will deliver water to the City for approximately 18 hours a day (ie. 75% of the day).
- As noted above, maximum day demand (MDD) projections typically exclude fire flow events. While the actual flows required for fighting fires are typically drawn from finished water storage reservoirs, these storage reservoirs must be refilled (after a fire flow event) from the water supply sources. Standard water system design recommendations include the following:
 - Two or more sources of water supply should be developed with a total capacity to replenish depleted fire suppression storage within a 72-hour period while concurrently supplying MDD (WMP 6.2.2.1).
 - Water systems should be provided with redundancy to ensure that demands can be met even if secondary sources are out of service. As such, the new water rights request should be based on the assumption that the City will need to be able to satisfy the maximum day demands (as summarized herein) from the new regional water supply source.
 - As noted in the WMP (9.3.1.4), design fire flows are established by the City’s Public Works Design Standards, with fire storage volume calculated by multiplying the design fire flow rate by its required duration. For a given fire flow, the Oregon Fire Code stipulates a required design duration (OFC Table B105.1). Based on a design fire flow of 4,000 gpm, a design duration of 4 hours is required (under the OFC), which equates to a total design fire flow volume of 960,000 gallons (WMP 9.3.1.4). To replenish this amount over 3 days will require 0.32 mgd (above and beyond the MDD required flows).
 - It is important to note that the relative impact due to fire storage replenishment is

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August 29, 2011
Mr. Adam Sussman
GSI Water Solutions
Page 3

proportionally much greater for small water systems than it is for larger systems (ie. the design fire flow volumes are based on structure size and type, rather than on population).

Water Rights Request

Based on the City's existing demand projections summarized below, we recommend that the City of Dayton request a water right of 3.1 cfs (± 2.0 mgd) from the Willamette River, with finished water to be provided by a future regional water treatment plant. The assumed water use projection listed below are through the end of 2032.

The following is a summary of the basis for the demand projections on which this request is based.

- 2032 MDD projection (projected forward from 2010 WMP) = 1.08 mgd
- Additional MDD projections of 10% additional for industrial flows = 0.11 mgd
- Requirements to replenish fire flow storage over 3 days = 0.32 mgd
Total projected MDD in 2032 = 1.51 mgd (see below)

Based on the assumption that the future WTP will provide finished water to the system for approximately 18 hours/day (including allowances for filter backwashing, process water, etc.), the maximum instantaneous diversion rate would be 2.0 mgd (3.1 cfs).

If you have any questions or need any additional information regarding this matter, please contact us at (503) 585-2474.

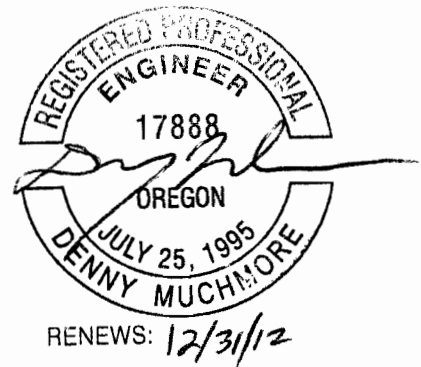
Sincerely,

WESTECH ENGINEERING, INC.
(Dayton City Engineer)


Denny Muchmore, PE

drm
encl.

- Ms. Christy Ellis, Dayton City Manager
- Mr. Steve Sagmiller, Dayton Public Works



02 2011



WESTECH ENGINEERING, INC.
CONSULTING ENGINEERS & PLANNERS

August 29, 2011

Mr. Adam Sussman
GSI Water Solutions
1600 Western Blvd, Suite 240
Corvallis, OR 97333

NOV 02 2011

RE: Carlton Willamette River Water Right Application
JO. 2674.1111.0

Dear Adam:

Based on our recent meeting, this letter provides some background information on Carlton's water use demand projections as they relate to the water right amounts being requested.

The City of Carlton does not have a current Water Master Plan (WMP), as the current WMP was prepared in 1996, which was a number of years prior to the construction of the current water treatment plant (2003) and storage reservoir (2002), and does not accurately reflect current conditions. The City recently authorized work to start on a new WMP, but this has not progressed to the point where updated demand projects are available.

The most current demand projections available for Carlton are found in the 2008 "Yamhill County Water Supply Analysis" (YCWSA), table 2-6.

There are several issues we discussed that have a bearing on the future water demand projections.

- Unlike other cities associated with this water right application, the City of Carlton provides water service to a significant number of water users located outside of the City UGB (well over 100 service connections), including the Valley View Water Co-op (north of town), and numerous users east and west of town. Carlton Farms/Carlton Packing Company is also served, and is located outside the UGB west of town (Carlton Farms is currently one of the largest single water users served by the Carlton water system). Since the demand projections in the YCWSA appear to be largely based on City population projections, they do not appear to reflect the actual water usage required to serve future outside users (ie. growth of water district in these areas, or changes in water intensive industries).
- You indicated that in 2009, GSI Water Solutions assisted the City in evaluating beneficial maximum use at the existing Water Treatment Plant in conjunction with water rights work for the Panther Creek source. Based on this data, the current maximum beneficial use from the Panther Creek sources was demonstrated to be 1.924 mgd (2.979 cfs). The demand projections below assume that this flow rate is adequate to serve the City over the 20 year planning period.

In addition, the following issues are water system operational constraints that affect the amount of the water right being requested by the City.

- Per our discussions, water rights are granted based on a maximum permissible "instantaneous"

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water withdrawal/diversion rate (ie. diversion in cfs), whereas most water system peak use projections are based on maximum "daily" demands (ie. MDD, projected maximum water use over a 24 hour period, excluding fire flows). It is well established that water usage varies significantly across the 24 hour period. Additionally, water supply and treatment facilities typically do not produce finished water continuously during the entire 24 hour period (due to systems being offline for backwashing, routine maintenance, etc.). For purposes of this analysis, we assume that the new source, a regional WTP and any required pumping facilities will be in operation and will deliver water to the City for approximately 18 hours a day (ie. 75% of the day).

- As noted above, maximum day demand (MDD) projections typically exclude fire flow events. While the actual flows required for fighting fires are typically drawn from finished water storage reservoirs, these storage reservoirs must be refilled (after a fire flow event) from the water supply sources. Standard water system design recommendations include the following:
 - Two or more sources of water supply should be developed with a total capacity to replenish depleted fire suppression storage within a 72-hour period while concurrently supplying MDD.
 - Water systems should be provided with redundancy to ensure that demands can be met even if secondary sources are out of service. As such, the new water rights request should be based on the assumption that the City will need to be able to satisfy the maximum day demands (as summarized herein) from the new regional water supply source.
 - For Carlton, design fire flows are established by the City's Public Works Design Standards, with fire storage volume calculated by multiplying the design fire flow rate by its required duration. For a given fire flow, the Oregon Fire Code stipulates a required design duration (OFC Table B105.1). Based on a design fire flow of 4,000 gpm, a design duration of 4 hours is required (under the OFC), which equates to a total design fire flow volume of 960,000 gallons. To replenish this amount over 3 days will require 0.32 mgd (above and beyond the MDD required flows).
 - It is important to note that the relative impact due to fire storage replenishment is proportionally much greater for small water systems than it is for larger systems (ie. the design fire flow volumes are based on structure size and type, rather than on population).

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August 29, 2011
Mr. Adam Sussman
GSI Water Solutions
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Water Rights Request

Based on the City's existing demand projections summarized below, we recommend that the City of Carlton request a water right of 2.98 cfs (± 1.923 mgd) from the Willamette River, with finished water to be provided by a future regional water treatment plant. The assumed water use projections listed below are through the end of 2032.

The following is a summary of the basis for the demand projections on which this request is based.

- 2032 MDD projection (projected forward from 2008 YCWSA tab 2-6 @ 1.6%) = 1.02 mgd
- MDD projections based on growth by 10% (20 yrs @ 0.48%) of users outside UGB = 0.102 mgd
- Requirements to replenish fire flow storage over 3 days = 0.32 mgd

Total projected MDD in 2032 = 1.442 mgd (see below)

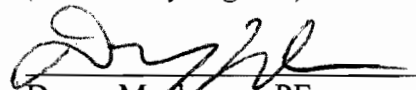
Based on the assumption that the future WTP will provide finished water to the system for approximately 18 hours/day (including allowances for filter backwashing, process water, etc.), the maximum instantaneous diversion flowrate would be 1.923 mgd (2.98 cfs).

If you have any questions or need any additional information regarding this matter, please contact us at (503) 585-2474.

Sincerely,

WESTECH ENGINEERING, INC.

(Carlton City Engineer)


Denny Muchmore, PE

drm
encl.

- Mr. Bryan Burnham, Carlton Public Works
- Mr. Rob Drake, Carlton Interim City Manager



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Land Use Information Form



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

Applicant(s): McMinnville Water & Light; City of Dayton; City of Lafayette; City of Carlton

Mailing Address: PO Box 638; PO Box 339; PO Box 55; 191 East Main Street

City: McMinnville; Dayton; Lafayette; Carlton State: OR Zip Code: 97218; 97114; 97127; 97111

Daytime Phone: 503-472-6158; 503-864-2221; 503-864-2451; 503-852-7575

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:	Proposed Land Use:
<u>Within the service area boundaries of McMinnville Water & Light, City of Dayton, City of Lafayette, and City of Carlton (see attached map)</u>						☐ Diverted ☒ Conveyed ☒ Used	<u>Municipal Water Supply</u>
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City of McMinnville, City of Dayton, City of Lafayette, City of Carlton, Yamhill County

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Type of application to be filed with the Water Resources Department:

- ☒ Permit to Use or Store Water ☐ Water Right Transfer ☐ Permit Amendment or Ground Water Registration Modification
☐ Limited Water Use License ☐ Allocation of Conserved Water ☐ Exchange of Water

Source of water: ☐ Reservoir/Pond ☐ Ground Water ☒ Surface Water (name) Willamette River

Estimated quantity of water needed: 45.1 ☒ cubic feet per second ☐ gallons per minute ☐ acre-feet

Intended use of water: ☐ Irrigation ☐ Commercial ☐ Industrial ☐ Domestic for _____ household(s)
☒ Municipal ☐ Quasi-Municipal ☐ Instream ☐ Other _____

Briefly describe:

McMinnville Water & Light and the Cities of Dayton, Lafayette, and Carlton are collectively submitting an application for a new surface water permit to the Oregon Water Resources Department requesting the use of surface water from the Willamette River for municipal purposes.

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For Local Government Use Only

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Please check the appropriate box below and provide the requested information

- ☒ Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): 402 + 1101
- ☐ Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

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Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

Site design review is required. This is a Type A process because use is permitted outright. MB

Name: Michael Brandt Title: Planning Director
 Signature: [Signature] Phone: 503-731-7516 Date: 10-3-11
 Government Entity: Lambert County

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

Applicant name: _____
 City or County: _____ Staff contact: _____
 Signature: _____ Phone: _____ Date: _____

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Land Use Information Form



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

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City: McMinnville; Dayton; Lafayette; Carlton State: OR Zip Code: 97218; 97114; 97127; 97111

Daytime Phone: 503-472-6158; 503-864-2221; 503-864-2451; 503-852-7575

NOV 02 2011

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<u>Within the service area boundaries of McMinnville Water & Light, City of Dayton, City of Lafayette, and City of Carlton (see attached map)</u> <i>Also refer to the comprehensive plan.</i>						☐ Diverted ☒ Conveyed ☒ Used	<u>Municipal Water Supply</u>
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B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

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☐ Limited Water Use License ☐ Allocation of Conserved Water ☐ Exchange of Water

Source of water: ☐ Reservoir/Pond ☐ Ground Water ☒ Surface Water (name) Willamette River

Estimated quantity of water needed: 45.1 ☒ cubic feet per second ☐ gallons per minute ☐ acre-feet

Intended use of water: ☐ Irrigation ☐ Commercial ☐ Industrial ☐ Domestic for _____ household(s)
☒ Municipal ☐ Quasi-Municipal ☐ Instream ☐ Other _____

Briefly describe:

McMinnville Water & Light and the Cities of Dayton, Lafayette, and Carlton are collectively submitting an application for a new surface water permit to the Oregon Water Resources Department requesting the use of surface water from the Willamette River for municipal purposes.

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Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

Name: Jim Jacks Title: City Planner

Signature: [Signature] Phone: 503 540 1619 Date: 9/30/11

Government Entity: City of Lafayette

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Receipt for Request for Land Use Information

Applicant name: _____

City or County: _____ Staff contact: _____

Signature: _____ Phone: _____ Date: _____

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Land Use Information Form



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

Applicant(s): McMinnville Water & Light; City of Dayton; City of Lafayette; City of Carlton

Mailing Address: PO Box 638; PO Box 339; PO Box 55; 191 East Main Street

City: McMinnville; Dayton; Lafayette; Carlton State: OR Zip Code: 97218; 97114; 97127; 97111

Daytime Phone: 503-472-6158; 503-864-2221; 503-864-2451; 503-852-7575

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Name: DANIEL MONTGOMERY Title: PLANNING DIRECTOR
 Signature: [Signature] Phone: 903.434.7311 Date: 10/3/11
 Government Entity: CITY OF McMINNVILLE

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Land Use Information Form



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Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

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Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

Name: Stufner Title: City Planner
 Signature: [Signature] Phone: (503) 340-1616 Date: 9/28/11
 Government Entity: City of Carlton

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Receipt for Request for Land Use Information

Applicant name: City of Carlton
 City or County: Carlton Staff contact: Suzanne Stufner
 Signature: [Signature] Phone: 540-1616 Date: 9/30/11

Land Use Information Form



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725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
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<u>Within the service area boundaries of McMinnville Water & Light, City of Dayton, City of Lafayette, and City of Carlton (see attached map)</u>						☐ Diverted ☒ Conveyed ☒ Used	<u>Municipal Water Supply</u>
<u>4S</u>	<u>3W</u>	<u>27</u>	<u>NE NW</u>	<u>900 (see attached map)</u>	_____	☒ Diverted ☐ Conveyed ☐ Used	<u>Municipal Water Supply</u>
_____	_____	_____	_____	_____	_____	☐ Diverted ☐ Conveyed ☐ Used	_____
_____	_____	_____	_____	_____	_____	☐ Diverted ☐ Conveyed ☐ Used	_____

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

City of McMinnville, City of Dayton, City of Lafayette, City of Carlton, Yamhill County

B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- ☒ Permit to Use or Store Water ☐ Water Right Transfer ☐ Permit Amendment or Ground Water Registration Modification
☐ Limited Water Use License ☐ Allocation of Conserved Water ☐ Exchange of Water

Source of water: ☐ Reservoir/Pond ☐ Ground Water ☒ Surface Water (name) Willamette River

Estimated quantity of water needed: 45.1 ☒ cubic feet per second ☐ gallons per minute ☐ acre-feet

Intended use of water: ☐ Irrigation ☐ Commercial ☐ Industrial ☐ Domestic for _____ household(s)
☒ Municipal ☐ Quasi-Municipal ☐ Instream ☐ Other _____

Briefly describe:

McMinnville Water & Light and the Cities of Dayton, Lafayette, and Carlton are collectively submitting an application for a new surface water permit to the Oregon Water Resources Department requesting the use of surface water from the Willamette River for municipal purposes.

For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.

Please check the appropriate box below and provide the requested information

- ☒ Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): **Re: allowed outright - see comment**
- ☒ Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."** **Re: land use approvals - see comments**

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued
		☐ Obtained ☐ Denied	☐ Being Pursued ☐ Not Being Pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

Dayton Land Use and Development Code (7.2.203.01A)-public facilities permitted all zones City of Dayton serve only properties within City limits. Connections to municipal services are determined at the time of applications for land use approval and/or connection to the system.

Supported by Comprehensive Plan, Section 9.1; and Goal 1, Policies 1., 2.

Name: Marjorie R. Mattson Title: Land Use Planner

Signature: *Marjorie R. Mattson* Phone: 503-540-1617 Date: 10/13/11

Government Entity: MWVCOG on behalf of the City of Dayton (503-864-2221)

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

Applicant name: _____

City or County: _____ Staff contact: _____ **NOV 02 2011**

Signature: _____ Phone: _____ Date: _____

200610605



NO FEE

00234447200600106050020021

05/12/2006 09:34:01 AM

DMR-DDMR Cnt=1 Stn=2 ANITA

This is a no fee document

Until further notice, send tax statements to:
and after recording return this Deed to

Office of County Counsel
Yamhill County Courthouse
535 NE Fifth Street
McMinnville, OR 97128

200610367



NO FEE

00234165200600103670020028

05/09/2006 03:36:36 PM

DMR-DDMR Cnt=1 Stn=2 ANITA

This is a no fee document

**TAX COLLECTOR'S DEED TO YAMHILL COUNTY
RE-RECORDED TO CURE LEGAL DESCRIPTION ERROR**

THIS DEED is granted this 21st day of April, 2006 by David Lawson, Yamhill County Assessor and Tax Collector ("Grantor") to Yamhill County, a political subdivision of the State of Oregon ("Grantee").

WHEREAS, pursuant to a Judgment and Decree of the Circuit Court of the State of Oregon, County of Yamhill, duly made and entered on September 27, 2000 in a lawsuit entitled **Yamhill County v. Waddell et al**, CV 00-248, the real property described in Exhibit "A" was foreclosed for delinquent taxes and sold to Grantee subject to statutory redemption rights. Exhibit "A" is incorporated into this document as if fully set forth herein. The real property described in Exhibit "A" has been held by the Tax Collector for the 2 year redemption period required by ORS 312.120 and no redemption has been made even though the Tax Collector has provided all Notice of Redemption required by law; and

WHEREAS, in accordance with ORS Chapter 312 and the foregoing Judgment and Decree, I have this day executed this deed conveying to Grantee the real property described in the attached Exhibit "A." In the foregoing Judgment and Decree, the real property described in Exhibit "A" was formerly owned by the defendant named below, bore the tax foreclosure list number specified, and was subject to the judgment amount specified as follows:

Foreclosure <u>List No.</u>	Account <u>No.</u>	Judgment <u>Amount</u>	Defendant(s) <u>Name</u>
2058	R4327 00900	\$3,674.59	Skidmore, et al

NOW THEREFORE, I, Grantor, under authority of the foregoing Judgment and Decree and ORS Chapter 312, do hereby grant, bargain, sell, and convey unto Grantee and its assigns forever, the real property described in Exhibit "A" as fully and completely as I can by virtue of the interest I hold in the real property as Yamhill County Tax Collector.

"BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON TRANSFERRING FEE TITLE SHOULD INQUIRE ABOUT THE PERSON'S RIGHTS, IF ANY, UNDER ORS 197.352. THIS INSTRUMENT DOES NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY APPROVED USES, TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES AS DEFINED IN ORS 30.930 AND TO INQUIRE ABOUT THE RIGHTS OF NEIGHBORING PROPERTY OWNERS. IF ANY, UNDER ORS 197.352."

DAVID LAWSON, Grantor
Assessor and Tax Collector, Yamhill County, Oregon

[illegible]

On the 21st day of April, 2006, before me, personally came the within-named David Lawson, personally known to me as Assessor and Tax Collector of Yamhill County, and who, as Tax Collector, executed the foregoing deed, and acknowledged to me that he executed the same. IN WITNESS WHEREOF, I have hereunto set my hand and seal.



Carol Ann White
 NOTARY PUBLIC FOR OREGON
 My Commission Expires: 9-17-2008

NOV 02 2011

 $\frac{1}{2}$

5-87762

EXHIBIT "A"

A part of the G.S. Chrisman Donation Land Claim, Notification No. 1018, Claim No. 51 in Section 27, Township 4 South, Range 3 West of the Willamette Meridian, Oregon, and beginning at an iron pipe set on fence line now there at a point 361.0 feet South and 235.5 feet West from the Northeast corner of said Claim; thence South 00°05' East along fence now there 1011.6 feet to iron pipe set on Conyer's South line; thence North 89°53' East along South line 681.7 feet to stake on left bank of Willamette River from which stake a maple 30 inches in diameter bears South 48°30' West 75 links; thence Northerly and following the left bank of said river 1125 feet, more or less, to a point North 89°53' West 197.0 feet from the beginning point; thence South 89°53' East 197.0 feet to beginning.

EXCEPT that certain tract conveyed to C.C. Meisel by deed recorded February 6, 1961 in Film Volume 14, Page 881, Deed and Mortgage Records and;

EXCEPT that tract conveyed to C.C. Meisel by deed recorded July 12, 1955 in Film Volume 46, Page 555, Deed and Mortgage Records.

Ref R4327 00900
4/14/06

Exhibit "A"

A part of the G.S. Chrisman Donation Land Claim, Notification No. 1018, Claim No. 51 in Section 27, Township 4 South, Range 3 West of the Willamette Meridian, Oregon, and beginning at an iron pipe set on fence line now there at a point 361.0 feet South and 235.5 feet West from the Northeast corner of said Claim; thence South 00°05' East along fence now there 1011.6 feet to iron pipe set on Conyer's South line; thence North 89°53' East along South line 681.7 feet to stake on left bank of Willamette River from which stake a maple 30 inches in diameter bears South 48°30' West 75 links; thence Northerly and following the left bank of said river 1125 feet, more or less, to a point North 89°53' East 197.0 feet from the beginning point; thence South 89°53' West 197.0 feet to beginning.

EXCEPT that certain tract conveyed to C.C. Meisel by deed recorded February 6, 1961 in Film Volume 14, Page 881, Deed and Mortgage Records and;

EXCEPT that tract conveyed to C.C. Meisel by deed recorded July 12, 1955 in File Volume 46, Page 555, Deed and Mortgage Records.

wrong ~~date~~
date

should be 1965

Ref R4327 00900
5/11/06

NOV 02 2011

2/2

S-87762

KNOW ALL MEN BY THESE PRESENTS, That James G. Penland and Viola Kneal Penland, husband and wife, grantors

in consideration of Ten Dollars (\$10.00)

to grantor paid by C. C. Meisel

hereinafter called the grantor,
Dollars.

does hereby grant, bargain, sell and convey unto the said grantee and grantee's heirs, successors and assigns, that certain real property, with the tenements, hereditaments and appurtenances thereunto belonging or appertaining, situated in the County of Yamhill and State of Oregon, described as follows, to-wit:

Beginning at the South East corner of that certain tract of land described in Volume 14 Page 881 of the Yamhill County deed records, said South East corner being 235 ft West and 1347.6 ft South of the N.E. corner of the G. S. Chrisman Donation Land Claim # 51 in Section 27, Township 4 South, Range 3 West of Willamette Meridian, Yamhill County, Oregon; thence North 410.6 ft to the true point of beginning; thence North along the West line of said tract 286.4 ft to a 1" iron pipe set in ditch line of a private graveled road, thence South 340 07' East 243.3 ft to a 1 1/2" iron pipe; thence South 58° 0" West. 160.0 ft to the point of beginning; containing .45 acres.

To Have and to Hold the above described and granted premises unto the said grantee and grantee's heirs, successors and assigns forever.

And said grantor hereby covenants to and with said grantee and grantee's heirs, successors and assigns, that grantor is lawfully seized in fee simple of the above granted premises, free from all encumbrances

and that grantor will warrant and forever defend the above granted premises and every part and parcel thereof against the lawful claims and demands of all persons whomsoever.

In construing this deed and where the context so requires, the singular includes the plural.

WITNESS grantor's hand and seal this day of , 19

James G. Penland (SEAL)

(SEAL)

(SEAL)

(SEAL)

(ORS 93.4901)

STATE OF OREGON, County of ss.

Personally appeared the above named James G. Penland and Viola Kneal Penland

and acknowledged the foregoing instrument to be their voluntary act and deed.

Before me:

Notary Public for Oregon

My commission expires March 19, 1967

WARRANTY DEED

80565

STATE OF OREGON,

County of Yamhill ss.

I certify that the within instrument was received for record on the 12th day of July, 1965, at 3:00 o'clock P.M. and recorded in book on page Record of Deeds of said County.

Witness my hand and seal of County affixed.

County Clerk—Recorder

By Deputy

(DON'T USE THIS SPACE; RESERVED FOR RECORDING LABEL IN COUN. TIES WHERE USED.)

AFTER RECORDING RETURN TO

C. C. Meisel
P.O. Box 206
Mt. Vernon, Ore

150

46-555

587162

179 1635

MEMORANDUM OF
CONTRACT FOR THE SALE OF REAL PROPERTY

GERALD F. ~~S~~IDMORE
11 Monte Cito Drive
Corona Del Mar, CA 92625

Seller

EUGENE R. BLOOM and BETTY A. BLOOM
husband and wife
6522 North Villard
Portland, OR 97217

Buyer

Seller is to sell and Buyer is to purchase, subject to the security interest retained by Seller and the terms and conditions of contract executed on the same date as this memorandum of contract, all the property described hereinafter in Exhibit "A". The purchase price for said property and the terms and conditions thereof are as set forth in said contract. The true and actual consideration for the transfer, stated in terms of dollars, is \$42,000.00.

Until change is requested, all tax statements shall be sent to the following address: Eugene R. and Betty A. Bloom
Rt. 1 Box 353-C, Dayton, Oregon 97114.

Dated this 16th day of August, 1983.

Gerald F. Saidmore
Gerald F. Saidmore

- SELLER -

Eugene R. Bloom
Eugene R. Bloom

Betty A. Bloom
Betty A. Bloom

- BUYER -

STATE OF OREGON)

County of Yamhill)

05897 9.0

FILED
YAMHILL COUNTY CLERK

AUG 24 11 49 AM '83

CHAL. STERN
COUNTY CLERK
YAMHILL COUNTY
DEPUTY

I hereby certify that the within was received and duly recorded by me in Yamhill County records:

VOL. 179 Page 1635

STATE OF CALIFORNIA,)

County of CRANOE)

SS.

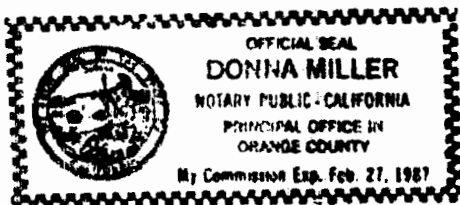
4172, 1983

Personally appeared the within named GERALD F. ~~S~~IDMORE, Seller, and acknowledged the foregoing instrument to be his free act and deed,

Before me:

Donna Miller
Notary Public for California

My Commission Expires: 2/27/87



NORTHWEST TITLE COMPANY

179 1636

STATE OF OREGON,
County of Yamhill.) ss.

August 12, 1983

Personally appeared the within named EUGENE R. BLOOM and BETTY A. BLOOM, husband and wife, Buyer, and acknowledged the foregoing instrument to be their free act and deed,
Before me:



David Young
Notary Public for Oregon
My Commission Expires: 5-6-85

EXHIBIT "A"

A part of the G. S. Chrisman Donation Land Claim, Notification No. 1018, Claim No. 51 in Section 27, Township 4 South, Range 3 West of the Willamette Meridian, Oregon, and beginning at an iron pipe set on fence line now there at a point 361.0 feet South and 235.5 feet West from the Northeast corner of said Claim; thence South 00°05' East along fence now there 1011.6 feet to iron pipe set on Conyer's South line; thence North 89°53' East along South line 681.7 feet to Stake on left bank of Willamette River from which stake a maple 30" in diameter bears South 48°30' West 75 links; thence Northerly and following the left bank of said river 1125 feet, more or less, to a point North 89°53' West 197.0 feet from the beginning point; thence South 89°53' East 197.0 feet to beginning.

EXCEPT that certain tract conveyed to C. C. Meisel by deed recorded February 6, 1961, in Film Volume 14, Page 881, Deed and Mortgage Records and EXCEPT that tract conveyed to C. C. Meisel by deed recorded July 12, 1955, in Film Volume 46, Page 555, Deed and Mortgage Records. 1965

SUBJECT TO rights of the public and of governmental bodies in and to any portion of the herein described premises lying below the mean high water mark of the Willamette River; rights of the public in and to any portion of the herein described premises lying within the boundaries of roads or highways; easement in Film Volume 59, Page 943; easement in Film Volume 91, Page 1564; easement in Film Volume 91, Page 1564; and roadway easement in Film Volume 91, Page 1564, Yamhill County Deed and Mortgage Records.

Book

NOV 02 2011

5-87762

NOV 02 2011

KNOW ALL MEN BY THESE PRESENTS That: JAMES G. PENLAND and VIOLA KNEALE PENLAND, husband and wife, hereinafter called the Grantors, for and in consideration of One Dollar and other good and valuable consideration to the Grantors in hand paid by C. C. MEISEL, hereinafter called the Grantee, have bargained, sold and conveyed and by these presents do hereby bargain, sell and convey unto the grantee, his heirs and assigns a permanent easement and right-of-way ten feet in width, including a perpetual right to enter upon the real estate described herein to obtain access to said easement and to construct, maintain, repair and replace, operate, make connections, and remove water lines through and under the lands hereinafter described, together with the right to excavate and refill ditches or trenches for the location of said pipeline and for the further right to remove trees, bushes, undergrowth and other obstructions interfering with the location, construction and maintenance of said pipeline.

The land affected by the grant of this easement as granted to the grantee is more particularly described as follows:

A part of the G. S. Chrisman Donation Land Claim, Notification No. 1018, Claim No. 51 in Section 27, Township 4 South, Range 3 West of the Willamette Meridian, Oregon, and beginning at an iron pipe set on fence line now there at a point 361.0 feet South and 235.5 feet West from the Northeast corner of said Claim; thence South 00°05' East along fence now there 1011.6 feet to iron pipe set on Conyer's South line; thence North 89°53' East along South line 681.7 feet to stake on left bank of Willamette River from which stake a maple 30" in diameter bears South 48° 30' West .75 links; thence Northerly and following the left bank of said river 1125 feet, more or less, to a point North 89°53' East 197.0 feet from the beginning point; thence South 89°53' West 197.0 feet to beginning.

EXCEPT that certain tract conveyed to C. C. Meisel by deed recorded February 6, 1961 in Film Volume 14, Page 881, Deed and Mortgage Records and EXCEPT that tract conveyed to C. C. Meisel by deed recorded July 12, 1955 in Film Volume 46, Page 555, Deed and Mortgage Records.

Said easement, as it crosses the above described property, is ten feet in width and lies along the North side of the South boundary line of the lands above described.

Also, by these presents, the grantors do grant to the grantee his heirs and assigns a similar easement running across the lands above described from the most westerly point of the lands conveyed by the grantors to the grantee and described in a deed recorded in Volume 14, Page 881, Deed Records of Yamhill County, State of Oregon, and said easement being 10 feet in width and going in a Northeasterly direction through a culvert underneath an old private road and to a point to the high water mark of the Willamette River.

That the first easement hereinabove described as lying immediately north of the South boundary line of the lands owned by the grantors and first hereinabove described shall begin at the Southeast corner of those lands described in the deed recorded in Volume 14, Page 881, Deed Records of Yamhill County, Oregon, and following along the South line of said

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lands approximately 128 feet to a private road entering the lands hereinabove described; thence continuing in a straight line on sloping ground 145 feet to Hubert Wilson's irrigation pipeline; thence on a meandering line following Hubert Wilson's pipeline 300 feet to the River; said easement heretofore granted to Hubert L. Wilson and Barbara I. Wilson, husband and wife, recorded in Film Volume 60, Page 303, Deed Records of Yamhill County, Oregon.

Also, by these presents the grantors do grant to the grantee, his heirs and assigns, an easement for roadway purposes twenty feet wide running across the lands hereinabove described beginning at a point North of a power line and approximately 30 feet North of the Southeast corner of the lands first above described and running in a Southeasterly direction to the county road to enable the grantee, his heirs and assigns to travel with his vehicles from the county road in a generally northwesterly direction to lands owned by grantee and described in a deed recorded on February 6, 1961 in Film Volume 14, Page 881, Deed Records of Yamhill County, Oregon; said easement being located on a road now there.

TO HAVE AND TO HOLD said easements and right-of-ways to said Grantee and to his heirs and assigns forever.

The Grantors hereby reserve the right to use the surface of the strip of land conveyed by this easement and right-of-way except the right to erect structures thereon.

The Grantors hereby covenant to and with the Grantee, his heirs and assigns, that the Grantors are lawfully seized and possessed of the real premises and that the Grantors have a good and lawful right to convey said easements; that it is free from all liens and encumbrances; and that the Grantors will forever warrant and defend the title thereto against the lawful claims of all persons whomsoever.

18589

STATE OF OREGON

IN WITNESS WHEREOF, Grantors have caused these presents to be executed this 25th day of October, 1972.

County of Yamhill,

I, JACK BEELER, County Clerk of said County and State,

do hereby certify that the within instrument of Writing was

received and has been by me duly recorded on Page 224 of Volume

91 of the Records of Deeds for said County on this

25 day of Oct, A. D. 1972 at 4:40 o'clock P.M.

In testimony whereof, I have hereunto subscribed

my name and affixed my official Seal.

JACK BEELER, County Clerk

By Helene Smith

STATE OF OREGON)

Deputy

) ss.

County of Yamhill)

On this 25th day of October, 1972 personally appeared the above named JAMES G. PENLAND and VIOLA KNEALE PENLAND, husband and wife, and acknowledged the foregoing instrument to be their voluntary act and deed.

Before me:

Francis E. Marsh

Notary Public for Oregon

My commission expires: July 5, 1975

Return to
in m. d. c.

NOV 02 2011

5-87762

JUL 1977

KNOW ALL MEN BY THESE PRESENTS, That JAMES G. PENLAND and VIOLA K. PENLAND, husband and wife, hereinafter called the grantor, for the consideration hereinafter stated, to grantor paid by C. C. MEISEL CO., an Oregon corporation,

hereinafter called the grantee, does hereby grant, bargain, sell and convey unto the said grantee and grantee's heirs, successors and assigns, that certain real property, with the tenements, hereditaments and appurtenances thereunto belonging or appertaining, situated in the County of Yamhill and State of Oregon, described as follows, to-wit:

Beginning at an iron pipe in the center of a private road, now there, on the East and West center line of Section 26, in Township 4 South, Range 3 West of the Willamette Meridian in Yamhill County, Oregon, said point being South 89°49' East 1270.9 feet from an iron pipe and stone on the East line of the Isaac Violet Donation Land Claim; thence South 89°49' East 1814.55 feet to the Ordinary High Water line of the Willamette River, as established in Case No. 21135 in the Circuit Court of the State of Oregon for Yamhill County; thence along the Ordinary High Water line as established in said Case No. 21135, the following courses and distances: North 9°13'30" East 87.86 feet; thence North 1°14'25" East 238.95 feet; thence North 5°21'20" West 169.22 feet; thence North 11°02'45" East 158.90 feet; thence North 11°06'00" East 98.76 feet; thence North 10°49'15" West 169.37 feet; thence North 17°45'50" West 154.32 feet; thence North 28°14'20" West 169.68 feet; thence North 32°10'58" West 397.92 feet; thence North 47°53'03" West 853.03 feet; thence North 50°12'53" West 190.58 feet; thence North 54°56'13" West 262.41 feet; thence North 67°20'16" West 247.73 feet; thence North 86°06'36" West 243.24 feet, more or less, to the East line of that certain tract of land conveyed to Paul Londershausen by deed recorded March 21, 1928, in Book 98, Page 516, Yamhill County Deed Records; thence South 00°29' West to the place of beginning.

TOGETHER WITH all easement rights, including the terms and provisions thereof, granted in that certain easement recorded in Film Volume 3 at Page 443, Deed and Mortgage Records, Yamhill County, Oregon.

SUBJECT TO: (1) Easement granted State of Oregon by instrument recorded in Film Volume 3 at Page 446, Deed and Mortgage Records, Yamhill County, Oregon.

(2) The rights of fishing, navigation and commerce in the State of Oregon, United States Government, and the public in and to that portion of said premises lying below the Ordinary High Water mark of the Willamette River. -----

NOV 02 2011

To Have and to Hold the same unto the said grantee and grantee's heirs, successors and assigns forever. And said grantor hereby covenants to and with said grantee and grantee's heirs, successors and assigns, that grantor is lawfully seized in fee simple of the above granted premises, free from all encumbrances, except any additional taxes which may be levied against said real premises should grantee's use thereof disqualify said premises for the presently zoned farm use classification; such additional taxes, if any, and interest thereon, grantee herein assumes and agrees to pay-----

and that grantor will warrant and forever defend the same granted premises and every part and parcel thereof against the lawful claims and demands of all persons whomsoever except those claiming under the above described encumbrances.

The true and actual consideration paid for this transfer, stated in terms of dollars, is \$50,000.00

~~However, the actual consideration received by grantor does not include other property or value given or promised which is part of the consideration (such as a vehicle)~~

In construing this deed and where the context so requires, the singular includes the plural
WITNESS grantor's hand this 4 day of August 1972

5-87762

KNOW ALL MEN BY THESE PRESENTS, That JAMES G. PENLAND and VIOLA KNEAL PENLAND, husband and wife, grantors, in consideration of TEN DOLLARS (\$10.00) and other valuable consideration to them paid by C. C. MEISEL, grantee, do hereby grant, bargain, sell and convey unto the said grantee, his heirs and assigns, all the following real property, with the tenements, hereditaments and appurtenances, situated in the County of Yamhill and State of Oregon, bounded and described as follows, to-wit:



Beginning at the Northwest corner of that certain tract of land described in Volume 122, Page 487 of the Yamhill County deed records, said Northwest corner is described therein as being 361 feet South and 235.5 feet West of the Northeast corner of the Gabriel S. Chrisman Donation Land Claim #51 in Township 4 South, Range 3 West of the Willamette Meridian in Yamhill County, Oregon; thence South 00° 05' East 386.5 feet to an iron post set on the North line of the County Road; thence East along the North line of said County Road 224 feet to an iron post; thence North 00° 5' West 759.3 feet to an iron post set as a witness corner, thence North 55 feet to the top of the high river bank of the Willamette River, thence following said river bank of said Willamette River in a Northwesterly direction to a point which is North 89° 53' East 40 feet from the place of beginning; thence South 89° 53' West 40 feet to the place of beginning.

TO HAVE AND TO HOLD the above described and granted premises unto the said grantee, his heirs and assigns forever.

And the grantors do covenant that they are lawfully seized in fee simple of the above granted premises free from all encumbrances, and that they will and their heirs, executors and administrators, shall warrant and forever defend the above granted premises, and every part and parcel thereof, against the lawful claims and demands of all persons whomsoever.

WITNESS our hands and seals this 16th day of February, 1961.

J. G. Penland (SEAL)
Viola Kneal Penland (SEAL)

STATE OF OREGON)
) ss
 County of Yamhill)

On this 6th day of February, 1961, before me, the undersigned, a Notary Public in and for said County and State, personally appeared the within named JAMES G. PENLAND and VIOLA KNEAL PENLAND, husband and wife, who are known to me to be the identical individuals described in and who executed the within instrument, and acknowledged to me that they executed the same freely and voluntarily.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my official seal the day and year last above written.

Francis E. Marshall
 NOTARY PUBLIC FOR OREGON
 My Commission expires June 28, 1963

STATE OF OREGON,) ss

62923

County of Yamhill

I, JACK BEFFER, County Clerk for said County and State, do hereby certify that the within instrument of Writing was received at _____ of Volume _____

_____ day of *Feb* *1961* at *4:05* *P.M.*

In testimony whereof I have hereto subscribed my name and affixed my Official Seal.

JACK BEFFER, County Clerk

Miss Sherrill
 Deputy

NOV 02 2011

I, JACK BEELER, County Clerk in and for said County and State, do hereby certify that the within instrument of Writing was received and has been by me duly recorded in Book _____ of Volume _____ of the Records of _____, to wit _____, on this _____ day of _____, A.D. 1967.

EASEMENT

In testimony whereof I have hereunto set my hand and affixed my official seal.

JACK BEELER, County Clerk

James G. Penland and Viola Kneal Penland, husband and wife, hereby grant, bargain, sell and convey unto Hubert L. Wilson and Barbara I. Wilson, husband and wife, for and in consideration of the sum of ONE DOLLAR, the receipt of which is hereby acknowledged a permanent easement and perpetual right of way, including the right to enter upon the real estate hereinafter described, at any reasonable and necessary time to bury, maintain and repair an irrigation pipeline for the purpose of conveying water over, across, through and under the land affected by the grant of this easement and right of way located in the County of Yamhill, State of Oregon and more particularly described as follows:

A part of the G. S. Chrisman D.L.C. Notification #1018 Claim #51 in Section 27 in Tp. 4 S.R. 3W. of the Willamette Meridian Oregon and beginning at an iron pipe set on fence line now there at point 361.0 feet South and 235.5 feet West from the Northeast corner of said Claim. Thence S 00° 05' E. along fence now there 1011.6 feet to iron pipe set on Conyer South line; thence N 89° 53' E. along South line 681.7 feet to stake on left bank of Willamette River from which stake a maple 30" in diameter bears S 48° 30' W. .75 links; thence Northerly and following the left bank of said river 1125 feet more or less to a point N 89° 53' E. 197.0 feet from beginning point Thence S. 89° 53' W 197.0 feet to beginning and containing 10.20 acres, more or less.

The easement and right of way hereby granted covers a strip of land 10 feet in width over and across the above described land, five feet on both sides of the following described center line:

Beginning at a point of diversion described in that certificate of water right dated July 18, 1966, recorded in Volume 15, page 599, Deed Records, Yamhill County, Oregon, which point of diversion is located in the NE1/4NW1/4 as projected within Chrisman DLC 51, Section 27, T. 4 S., R. 3W., W.M., which diversion point is located 740 feet North and 500 feet West from the Northwest corner of Violet D.L.C.; thence South 32° West 310 feet more or less to a point where the South line of the above 10.20 acre tract of land joins County Road No. 466

In addition to the grant of easement above described, the grantors do grant to the grantees the nonexclusive right to use that certain private road across said 10.20 acre tract in order to reach the point of diversion above described in order to install, repair and move pumping equipment.

To have and to hold said easement and right of way unto grantees, their heirs and assigns forever.

Dated this 7th day of May, 1967.

(SEAL)

(SEAL)

STATE OF OREGON, County of Yamhill

May 11, 1967

Personally appeared before me James G. Penland and Viola Kneal Penland, husband and wife, and acknowledged the foregoing instrument to be their voluntary act and deed.

Notary Public

(NOTARY SEAL)

Notary Public for Oregon

NOV 02 2011

S-87162



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OVER THE COUNTER

November 2, 2011

Jeana Eastman
Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, OR 97301

Re: Water Right Application - City of McMinnville (by and through McMinnville Water and Light), City of Dayton, City of Carlton, and City of Lafayette

Dear Jeana:

The enclosed application is being submitted on behalf of the entities listed above. Also enclosed is the required fee of \$12,350, which was calculated as follows:

\$700 - Base Fee

\$11,250 - Rate Fee of \$250/cfs (or fraction thereof) (44.18 cfs)

\$400 - Permit Recording Fee

Total = \$12,350

If you have any questions about the enclosed materials, please contact me at 541-753-0745 extension 201 or by e-mail at asussman@gsiws.com. For the purpose of this application, GSI is an authorized agent for the entities listed above.

Sincerely,

A handwritten signature in black ink, appearing to read "Adam Sussman", written over a horizontal line.

Adam Sussman
Senior Water Resources Consultant
GSI Water Solutions, Inc.

Enclosures

Cc: Paul Elias, McMinnville Water and Light
Christy Ellis, City of Dayton
Kathie Oriet, City of Carlton
Preston Polasek, City of Lafayette

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BOARD OF COUNTY COMMISSIONERS

KATHY GEORGE • LESLIE LEWIS • MARY P. STERN

535 NE Fifth Street • McMinnville, OR 97128-4523

(503) 434-7501 • Fax (503) 434-7553

TTY (800) 735-2900 • www.co.yamhill.or.us

October 24, 2011

McMinnville Water & Light

Attn: Paul Elias

PO Box 638

855 Marsh Lane

McMinnville, OR 97128

LETTER OF SUPPORT

Subject: Willamette River Regional Water Right Application

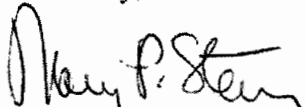
Dear Mr. Elias:

The Yamhill County Board of Commissioners understands that the Cities of McMinnville, Carlton, Lafayette and Dayton intend to apply for a regional municipal supply water right on the Willamette River, which will include a proposed point of diversion on land owned by the county. Yamhill County would like to express its support for this regional water supply project. The project is an excellent demonstration of regional cooperation that is needed to resolve Yamhill County's water resource issues.

Yamhill County has been an active partner in seeking solutions to our county's water resource needs. In 2005, the Yamhill County Board of Commissioners formed a Water Task Force comprised of representatives from ten cities in the county to study the water supply issues of our county and the need to secure more reliable supply for municipal use. The resulting study, *Yamhill County Water Supply Analysis*, dated April 7, 2008, recommended development of a diversion from the Willamette River as a regional strategy to provide a reliable, long-term water supply to our citizens.

We encourage Oregon Water Resources Department to support this project.

Sincerely,


Mary P. Stern, Chair


Leslie Lewis, Commissioner


Kathy George, Commissioner

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Table M-1. Present Water Rights and Permits Held

Application	Permit	Certificate	Priority Date	Natural Source of Water	Amounted Authorized	Utilization	Limitations on Use
McMinnville Water & Light							
S-5029	S-3002	3367	7/8/1916	Haskins Creek	4.5 cfs	4.5 cfs	Source limitations during summer months
R-11338	R-612	82887	2/19/1927	Haskins Creek	410 ac-ft	410 ac-ft	
S-11484	S-8881	82886	5/18/1927	Haskins Creek	410 ac-ft	410 ac-ft	Source limitations during summer months
S-19124	S-14837		1/10/1941	Haskins Creek	15 cfs	7.12 cfs	Source limitations during summer months
R-63054	R-8885	63659	11/23/1981	Haskins Creek & Reservoir	355 ac-ft	355 ac-ft	
S-63117	S-47779	63660	12/15/1981	Haskins Reservoir	355 ac-ft	355 ac-ft	Source limitations during summer months
R-32824	R-2652	86408	12/24/1958	Nestucca River	3550 ac-ft	3550 ac-ft	
R-32825	R-2653		12/24/1958	Walker Creek	4500 ac-ft	0 ac-ft	Water right difficult to develop due to stream use restrictions
S-32770	S-27520	86410	11/19/1958	Nestucca River & McGuire Reservoir	6.4 cfs	6.4 cfs	Supply limitations during summer months
S-32770	S-27520		11/19/1958	Walker Creek & Walker Reservoir	9.6 cfs	1.3 cfs	Water right difficult to develop due to stream use restrictions
R-46563	R-5561	86409	12/2/1969	Nestucca River for McGuire Reservoir	210 ac-ft	210 ac-ft	
S-46564	S-34803	86820	12/2/1969	McGuire Reservoir, from Nestucca River	210 ac-ft	210 ac-ft	Source limitations during summer months
R-69772	R-13942	86306	12/7/1988	Nestucca River for McGuire Reservoir	6040 ac-ft	6040 ac-ft	
S-69773	S-54038		12/7/1988	McGuire Reservoir, from Nestucca River	6040 ac-ft	6040 ac-ft	Source limitations during summer months
City of Carlton							
S-1609	S-914	1868	8/12/1911	Panther Creek	0.5 cfs	0.5 cfs	Source limitations during summer months
S-44207	S-32488		10/27/1967	Fall Creek	2 cfs	0 cfs	Water right difficult to develop due to stream use restrictions
S-44208	S-32489		10/27/1967	Panther Creek	2.5 cfs	2.19 cfs	Source limitations during summer months
R-46504	R-5527	85744	10/22/1969	Panther Creek	66 ac-ft	66 ac-ft	
S-46505	S-34661	86064	10/22/1969	Panther Creek Reservoir	0.271 cfs 66 ac-ft	0.271 cfs 66 ac-ft	Source limitations during summer months
S-46505	S-34661		10/22/1969	Panther Creek	0.229 cfs	0 cfs	Source limitations during summer months
R-69512	R-10900	85747	11/30/1987	Panther Creek	9 ac-ft	9 ac-ft	
S-69513	S-50218	86065	11/30/1987	Panther Creek Reservoir	0.018 cfs 9 ac-ft	0.018 cfs 9 ac-ft	Source limitations during summer months
S-69513	S-50218		11/30/1987	Panther Creek	0.052 cfs	0 cfs	Water right unlikely to be developed due to stream use restrictions
City of Lafayette							
G-4108	G-3856	T-8178	10/13/1967	Groundwater	0.28 cfs	0.28 cfs	Source limitations and well condition
G-4724	G-4647	T-8178	12/16/1968	Groundwater	0.32 cfs	0.32 cfs	Source limitations and well condition
G-14386	G-13839		9/27/1996	Groundwater	3.34 cfs	0.67 cfs	Source limitations and well fouling
G-11257	G-10399		4/10/1984	Groundwater	0.25 cfs	0 cfs	Source limitations and well condition
G-11258	G-10400		4/10/1984	Groundwater	0.49 cfs	0.15 cfs	Source limitations and well condition
GR-1492	n/a		3/29/1905	Groundwater	0.45 cfs	0.45 cfs	Poor water quality of source
S-9416	S-6230	6135	3/14/1924	Henry Creek and Pringle Spring	0.75 cfs	0.75 cfs	Source limitations during summer months
S-16746	S-12598	16623	1/13/1937	Big Spring (a.k.a. Blue Bird Spring)	0.66 cfs	0.66 cfs	Source limitations during summer months
S-32284	S-25666	35699	4/23/1958	Lafayette Spring and Doug Nelson Spring	0.16 cfs	0.16 cfs	Source limitations during summer months
City of Dayton							
G-1819	G-1663	35695	8/9/1960	Groundwater	0.67 cfs	0.07 cfs	Source limitations and well condition
G-1820	G-1664	T-10926	8/9/1960	Groundwater	0.5 cfs	0.06 cfs	Source limitations and well condition
G-5646	G-5466	47233	3/13/1972	Groundwater	0.17 cfs	0.145 cfs	Source limitations and well condition
G-8735	G-8082	61750	4/14/1978	Groundwater	0.2228 cfs	0.06 cfs	Source limitations and well condition
G-14385	G-13838		9/27/1996	Groundwater	3.34 cfs	0.36 cfs	Source limitations and well fouling

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Decree		49856	2/16/1904	West (Lower) Springs (Miller Springs)	0.11	cfs	0.11	cfs	Source limitations during summer months
S-34218	S-26950	49959	8/9/1960	East (Upper) Springs	0.14	cfs	0.14	cfs	Source limitations during summer months

McMinnville Water & Light utilization from 2010 time extension application for Permit S-54038
Carlton water right utilization from 2011 time extension appliation for Permit S-32489
Lafayette water right uitlization from 2008 Water Management and Conservation Plan
Dayton water right utilization from 2010 Water System Master Plan

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