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Attachment 1

Completed Response to Notice of Mitigation Obligation

RESPONSE TO NOTICE OF MITIGATION OBLIGATION MUNICIPAL OR QUASI-MUNICIPAL INCREMENTAL DEVELOPMENT PLAN

Municipal or Quasi-Municipal ground water permit applicants may satisfy a mitigation obligation by incrementally obtaining and providing mitigation to coincide with the incremental development of the permit, provided mitigation is provided prior to each stage of development of the permit, in accordance with the standards under OAR 690-505-0610(2)-(5). A mitigation obligation may be satisfied by obtaining mitigation credits, providing for implementation of a mitigation project, or both (OAR 690-505-0610(2)). Please read and complete this acknowledgment of mitigation obligation and return it to the Department at the address above.

Applicant(s): CITY OF BEND Roots Water System, INC	
Application number: G-13809	
Proposed Use: QUASI-MUNICIPAL	
Period of Use requested: YEAR-ROUND	RECEIVE
Rate requested: 4.16 CUBIC FEET PER SECOND	FEB 1 2 2018
Mitigation Obligation: 1296-1 ACRE-FEET	Olarna
Zone of Impact: GENERAL	OWRD
Please read and initial the following statements:	
We understand that mitigation must be provided prior to each stage of developed and that the mitigation must meet the requirements of OAR 690-505-0610(2)-(5).	pment of the permit
We understand that the first increment of mitigation must be obtained, submit and legally protected instream prior to a permit being issued.	ted to the Department
We understand that after receiving the water right permit, I (we) may not increproviding the corresponding required mitigation.	ease water use without
We understand that we will be required to submit a new or update Water Mar Conservation Plan under OAR Chapter 690, Division 86 within 2 years of the Depart	nagement and tment issuing a permit.
X We understand that may we modify the incremental development plan and re-obligation only with prior written Departmental approval.	lated mitigation
Please estimate the time schedule for development of the water right permit and the mitigation that may be obtained and used prior to each stage of development (this preschedule must describe 100% of the requested volume).	proposed source of opposed development
For the first increment of permit development we will need approximatelyacre-feet requested in the application. The first increment of mitigation w (date).	acre-feet of the
* See incremental	mitigation
(over) Plan	

The proposed source of mitigation water for this increment of use will l	be (please check):
Purchase mitigation credits and / or A mitig	gation project resulting in credits
Please describe the type of project (e.g., transfer, etc.) and any asso	ciated water-right certificate, if
For all increments Ro either temperary or per Credits	igts will use
either temperary or per	movet mitigative
Credits	
By (approximate year), for the second increment of permit de approximately additional acre-feet of the total vol. The proposed mitigation source for this increment of use will be: (please	ume requested in the application.
- III	
Purchase mitigation credits and / or A mitig	
Please describe the type of project (e.g., transfer, etc.) and any asso	
known:	
Same as a	Sove
Please complete a section for each subseque Incremental Development beyond the first two using the	out stage of
	e additional page below.
Applicant or Applicant's Agent	e additional page below.
Data 2/4/2018	e additional page below.
Date $\frac{2/6}{2018}$	e additional page below.
Data 2/4/2018	e additional page below.
Date 2/6/20/8 Mail to: Attn: Oregon Water Resources Department 725 Summer St NE Suite A	e additional page below.
Date 2/6/2018 Mail to: Attn: Oregon Water Resources Department	e additional page below.
Date 2/6/20/8 Mail to: Attn: Oregon Water Resources Department 725 Summer St NE Suite A	RECEIVED
Date 2/6/20/8 Mail to: Attn: Oregon Water Resources Department 725 Summer St NE Suite A	e additional page below.
Date 2/6/20/8 Mail to: Attn: Oregon Water Resources Department 725 Summer St NE Suite A	RECEIVED

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Attachment 2

Completed Quasi-Municipal Incremental Development Plan

Roats Water System, Inc.

Application G-13809; Quasi-Municipal Incremental Development Plan

Table 1 below describes the timelines and increments for Roats Water System, Inc. (Roats) Incremental Development Plan. Roats intends to satisfy its mitigation obligation through a combination of permanent mitigation credits and temporary mitigation credits from a qualified bank. Roats understands it has a General Zone of Impact obligation.

This proposed Incremental Development Plan assumes that Roats' permit will be issued in 2018. To the extent this date varies, Roats would request to modify the dates accordingly. In addition, to the extent that projected water demand is greater or lesser than outlined in Table 1, Roats will provide the Department proposed updates to its Incremental Development Plan.

Table 1. Roats Proposed Timelines and for Increments Incremental Development Plan (Application G-13809)				
Increment	Year	Estimated Annual Volume Appropriated (acre-feet) per Increment	OWRD's estimated consumptive use (mitigation obligation)	
1	2018	50	20	
2	2019-2020	400	160	
3	2021-2022	400	160	
4	2022-2023	635	254	
Tot	al	1,485	594	

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Attachment 3

Completed Form M



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: Roats Water System, Inc.	
Name and size of area to be served: Roats Water Ser (in square miles)	vice Area - Approximately 3.5 square miles.
Present population of service area: 3,705 in 2016 pric (Contact county planning staff, if needed.)	or to acquisition of Juniper System
Projected population in 20 years: 9,312 - based upon 2 (Cite source and year. For example: "20,595 Based upon 1995 Port	
List present water rights and permits held:	
Date of Issuance: Natural Source of Water	Amount Permitted: Utilization:
See Attachment A	# 1
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Water Use	
Average yearly demand: 1022.1 AFY	Year: 2016
Per-capita daily consumption (in gallons): 253.1	*
(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: 585.4 Acre-feet
Peak season per-capita daily consumption: 422.	
(Divide total peak season demand by population and the numb	
Annual amount of water:	*Beginning in 2015, the meter at the Parrell vault, where Roats' share of water production
Produced: 333.0 MG	from Well 10 is measured began to ————————————————————————————————————
(diverted or pumped)	underestimated. Roats has worked to fix the meter and is considering replacing it. During
Delivered: 342.3 MG	the five years prior to the meter malfunction (2010 through 2014), Roats' non-revenue water
Is your system fully metered?	ranged from 5.2 to 27.1 MG (1.7 to 8.8 percent).
Describe your rate structure: Base charge based on met (e.g. flat rate, increasing or decreasing block rate or combination of	

A. Discuss the reason(s) for your request for addi (e.g. loss of current supply, peak demand, growth, or		
Roats Water System recently acquired the majority of the for system added an estimated 560 residential connections to Roats is able to utilize additional water from Well 10 (under Water, that is not a long-term solution, as the management 10 capacity for extended periods of time. Water will be utili	the service population, an increase of Certificate 87656) through a manage agreement does not anticipate Roat	f nearly 40 percent. Although ement agreement with Avion s utilizing the majority of Well
B. How long is the amount of water requested in	this application expected to	meet future needs?
(e.g. until the year 2040) Until the year 2023	3	
C. Briefly discuss operation of water system and	the most constraining compo	nent of the system:
Water is pumped from six groundwater wells for whi jointly operated under an agreement with Avion Wa Roats during the peak demand season. With the increase the physical capacity to supply Roats' full deman needed water right capacity once Roats obtains a peof Roats' water rights is the sole constraint on the use	ter and the full capacity of the we ease in Roats' water service popu nd. Roats' acquisition of Hole Ten rmit for the wells. Therefore, the	ell is not reliably available to lation, the existing wells wells 1 & 2 will add the maximum authorized rate
D. Percentage of water use by type:		
Residential: 77.4%	Commercial: 22.6%	DEOCNA
Public Authority:	Agricultural:	RECEIVE
Unaccounted for use:	Industrial:	rEB 1 2 20°
Other (specify use):		OWRD
E. List cost to implement proposed request. Compare cost and benefits with other water supply, efficiency measures such as replacing current shows		. This should include water
Because much of the physical infrastructure been developed, the cost to implement the conservation measures may reduce Roats' need for a new water right entirely. As descoverwhelming majority of residences in the	e proposed request is minir peak water demands, but c cribed in Roats' approved 20	nal. Water annot eliminate the 007 WMCP, the
F. How and by how much will your proposed was (Express as a percentage of per-capita consumption.		ncrease efficiency?
As described in Roats' approved 2007 WMCP, the oarea have new, efficient plumbing. Similarly, Roats' infrastructure. From From 2002 through 2014, priototaled 6 percent, and never exceeded 10 percent reduction of outdoor water use. Roats estimated threduce demand by up to 5 percent for the Woodsichave the same impact on the Homeplace water ser	distribution system is comprise or to the Parrell Vault meter issue in any year. Opportunities for co nat conservation efforts targeting de Ranch water service area, but	d of relatively new s, unaccounted-for water nservation are limited to g outdoor water use could these measures would not

Roats Water System, Inc. - Water Rights Table

Application	Permit	Certificate	Priority Date	Use	Source	Authorized Rate (cfs)	Well-specific Rate (cfs)	Maximum Rate Utilized to Date (cfs)	Actively Used?
G-13072 G-12526					Well 3]	0.25		N
	87656	8/10/1992	Quasi-Municipal	Well 4	3.0	0.85	3.0	Υ	
				Well 9		0.95		Y	
				0	Well 10		0.95		Υ
*	÷.	1000 07057	3/23/1961	Group Domestic	Well 3	0.5	N/A	0.5	N
6 1061	C 1000				Well 4	0.5			Y
G-1961	1961 G-1890 87657	8/03/		Supplemental	Well 9	0.16		,0.16	Υ
				Irrigation	Well 10				Υ
0.00		07659 13/33/16		Group Domestic	Well 3	0.5		0.5	N
6 2220			12/22/1965		Well 4	0.5	N/A		Υ
G-3328 G-3128	87658 12/22/19	12/22/1903	Supplemental	Well 9	0.06	''/^	0.06	Y	
	!			Irrigation	Well 10	0.00		0.00	Y
	= ==	G-11323 87659 11/6/19		Quasi-Municipal	Well 5		-	1.1	Y
G-11983 G-11323	C 11222		11/6/1000		Well 6	1.1	N/A		N
	G-11323		11/0/1303		Well 7				Υ
					Well 8				Υ
G-13809			0/1/1004	Quasi-Municipal	Hole Ten	4.16	7 _ 2		
			9/1/1994		Well 1 & 2		184	T- 10	