

PLACE BASED PLANNING
DEVELOPING A CONSENSUS BASED REGIONAL
WATER PLAN ON THE CENTRAL OREGON COAST

MID-COAST PLANNING PARTNERSHIP

Timothy Gross, PE

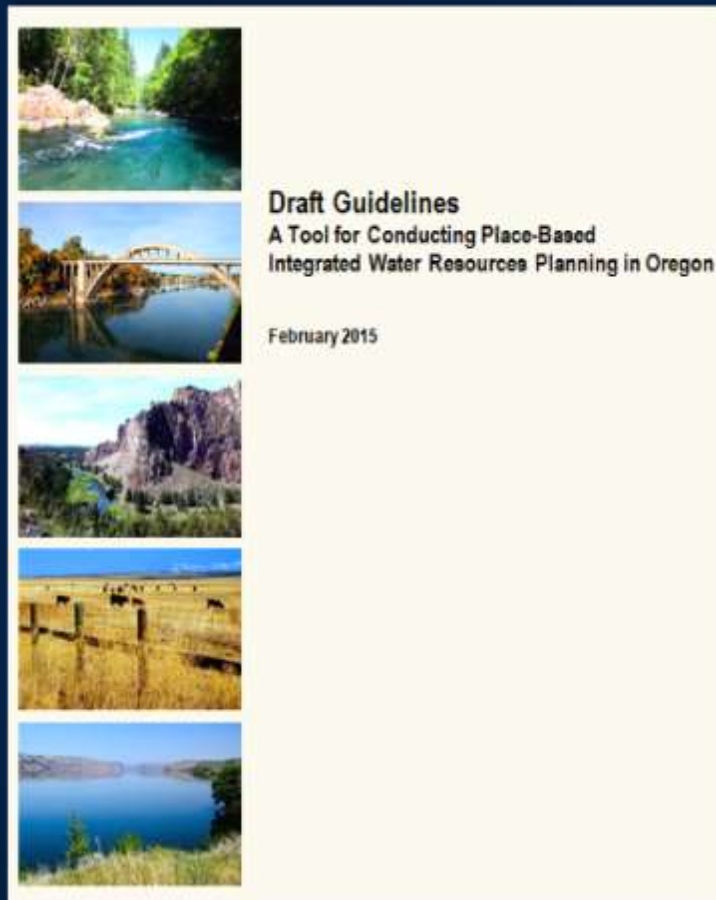
Director of Public Works/City Engineer

City of Newport, OR

April 26, 2018

WHAT IS PLACE BASED PLANNING?

A concept for comprehensive water resources planning conducted on a regional basis by local stakeholders as proposed in the ***Integrated Water Resource Strategy - 2015 Draft Guidelines***



- Voluntary, not regulatory
- Locally initiated and led
- Balanced representation
- Basin or watershed scale
- Partnership with the state
- Five planning steps

WHAT IS THE MID-COAST WATER PLANNING PARTNERSHIP?

- In June 2016 the City of Newport received a grant from the Oregon Water Resources Department (OWRD) to develop a collaborative, integrated water planning effort that looks at instream and out-of-stream water needs while considering water quantity, quality and ecosystem health.
- The City and OWRD together act as conveners for the [Mid-Coast Water Planning Partnership](#), a diverse group who will work together to understand and meet our collective water needs.



PLACE BASED (WATER RESOURCES) PLANNING

The Mid-Coast area was one of 4 planning regions selected to pilot the Place Based Planning process

5 Planning Steps

- Build a collaborative process
- Characterize the water system
- Quantify current and future water needs
- Identify integrated solutions to meet needs
- Develop an integrated water resources plan



PILOT PHASE OBJECTIVES

1. Test the draft guidelines
2. Gain experience to inform the IWRS
3. Inspire collaboration and integration
4. Build local capacity and support
5. Foster creative problem solving and outside of the box solutions
6. Leverage additional resources



Water on the Mid-Coast

Why is water planning needed on the coast?

The Mid-Coast needs reliable water supplies. Although the mid-coast receives ~70 inches of rainfall annually, local communities have struggled to meet water demands in recent years. A 2008 study found that, given current supplies and infrastructure, water suppliers could have insufficient supplies by as early as 2020. Some communities already struggle to meet their water needs.

Water is critical for people, the economy, and the environment. A sufficient supply of quality water is needed for drinking water, agricultural and industrial uses and to provide adequate stream flow to sustain diverse fish and wildlife species, as well as to support commercial, recreational, and tribal fisheries and tourism on the coast.

Water supply depends on timing and storage. Stream flows are lowest in the summer, when demand for drinking water, industrial water use, tourism, and recreation is highest. We need to provide enough water for all uses while ensuring sufficient stream flows for fish and wildlife.

Water quality. There is a need to expand water quality monitoring to help us better understand water quality needs and plan for improvement.

There is a need for regional water planning. Until recently, there hasn't been a comprehensive effort to understand water supply and quality issues at the regional level using an integrated approach. The challenges we face aren't challenges that any one entity can tackle alone. We need a larger scale, coordinated approach to water planning and management.

Key Basin Issues

- **Aging infrastructure** (pipelines, reservoirs, pump stations, water and wastewater treatment facilities), few interconnections, and limited financial capacity for infrastructure improvements
- **Siletz River health:** water supply for SRWD, City of Toledo, City of Newport, and GP Mill; supports summer steelhead population
- **Supply vulnerabilities** for water providers (e.g. low summer streamflow; watershed health)
- **Water quality impaired streams** listed by Department of Environmental Quality for over 500 miles
- **Instream flow deficits** identified by ODFW and OWRD for several streams. Schooner Creek, Drift Creek, Yachats River rated highest priority
- **Habitat degradation**, including stream channel simplification and incision, altered streamflow timing and watershed function, turbidity related to peak streamflow.
- **Listed species under the Endangered Species Act** – Coastal Coho and Green Sturgeon listed as “threatened” along with several species of concern
- **Human and ecosystem resiliency** to changes in supply and demand, drought and natural disasters.

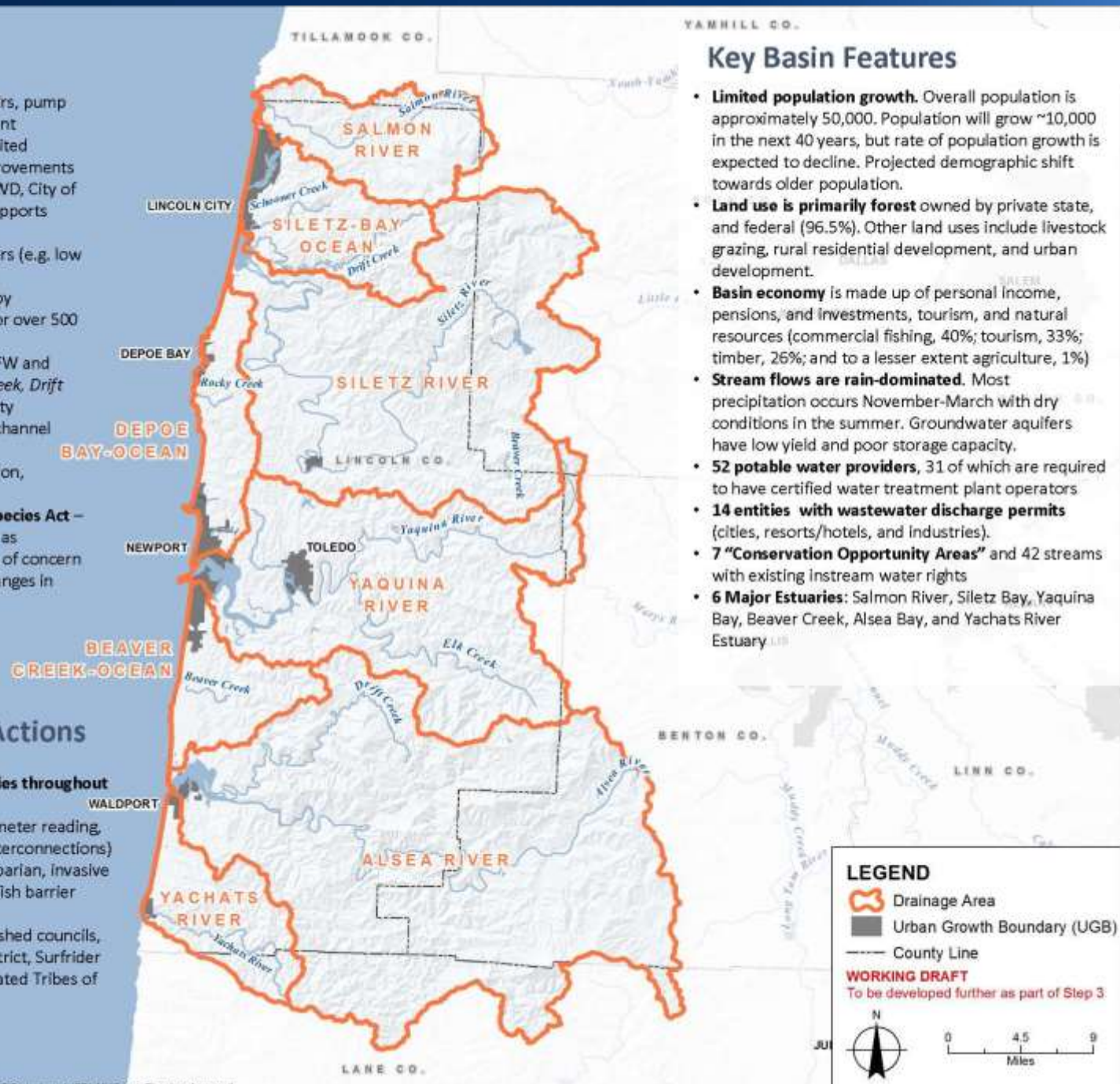
Key Basin Strategies/Actions

Planning Partnership will develop strategies throughout Steps 3 and 4

- **System improvements** (e.g. automatic meter reading, pipeline replacements, septic, supply interconnections)
- **Restoration projects** (e.g. in-channel, riparian, invasive species removal, estuary dike removal, fish barrier removal, road improvements)
- **Water quality monitoring** (USGS, watershed councils, Lincoln Soil and Water Conservation District, Surfrider Foundation, cities, DEQ, ODA, Confederated Tribes of Siletz Indians, Weyerhaeuser, EPA)

Key Basin Features

- **Limited population growth.** Overall population is approximately 50,000. Population will grow ~10,000 in the next 40 years, but rate of population growth is expected to decline. Projected demographic shift towards older population.
- **Land use is primarily forest** owned by private state, and federal (96.5%). Other land uses include livestock grazing, rural residential development, and urban development.
- **Basin economy** is made up of personal income, pensions, and investments, tourism, and natural resources (commercial fishing, 40%; tourism, 33%; timber, 26%; and to a lesser extent agriculture, 1%)
- **Stream flows are rain-dominated.** Most precipitation occurs November-March with dry conditions in the summer. Groundwater aquifers have low yield and poor storage capacity.
- **52 potable water providers**, 31 of which are required to have certified water treatment plant operators
- **14 entities with wastewater discharge permits** (cities, resorts/hotels, and industries).
- **7 “Conservation Opportunity Areas”** and 42 streams with existing instream water rights
- **6 Major Estuaries:** Salmon River, Siletz Bay, Yaquina Bay, Beaver Creek, Alsea Bay, and Yachats River Estuary.



Siletz Bay-Ocean Drainage Area

Key Issues

1. Devils Lake Water Quality
2. D River/Rec Site Water Quality
3. Infrastructure: Aging, lack of interties

Strategies/Early Actions

1. Backup water supply sources
2. Rock Creek Limiting Factors Analysis
3. IGAs: intertie efforts
4. Devils Lake Improvement District water quality improvement efforts

Key Species

1. Coho
2. Fall Chinook
3. Winter steelhead
4. Pacific lamprey
5. Green Sturgeon
6. White Sturgeon

Priority Water Availability Basins for Streamflow

1. D River at Mouth
2. Schooner Creek at Mouth
3. Drift Creek at Mouth
4. 2 unnamed Streams at Mouth (WAB 0202 and 0201)

Instream Flows

1. Existing: portions of lower Schooner Creek, lower drift Creek, and Rock Creek
2. Proposed: portions of Erickson Creek, Schooner Creek, Drift Creek, and D River



Key Diversions/ Users

1. Schooner Creek, LC
2. Drift Creek: LC, K-GB-LB WD

Key Infrastructure

1. Intakes, WTPs, Storage Reservoirs: LC, K-GB-LB WD
2. LC WWTP and Discharge Point
3. Lack of interties

Water Quality Impairments

1. Schooner Creek: Temp, E. coli
2. Drift Creek: Temp, Bio Criteria
3. Rock Creek: Temp
4. Pacific Ocean/D River: Enterococcus
5. Unnamed stream/Devils Lake: aquatic weeds/algae; Chl a; pH
6. Thompson Creek: fecal coliform

Other Key Watershed Features/Habitats

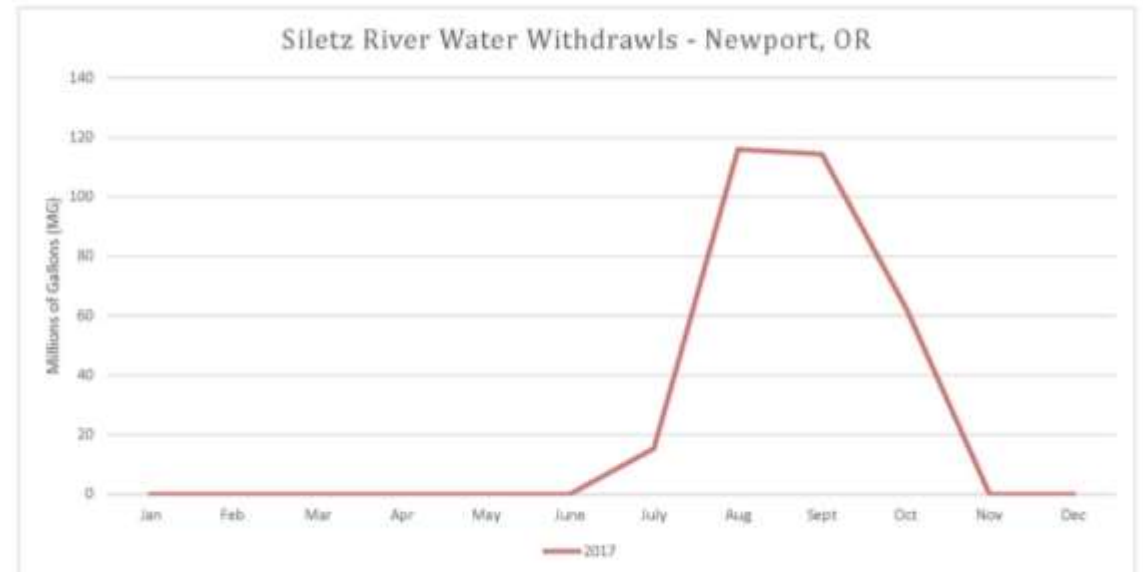
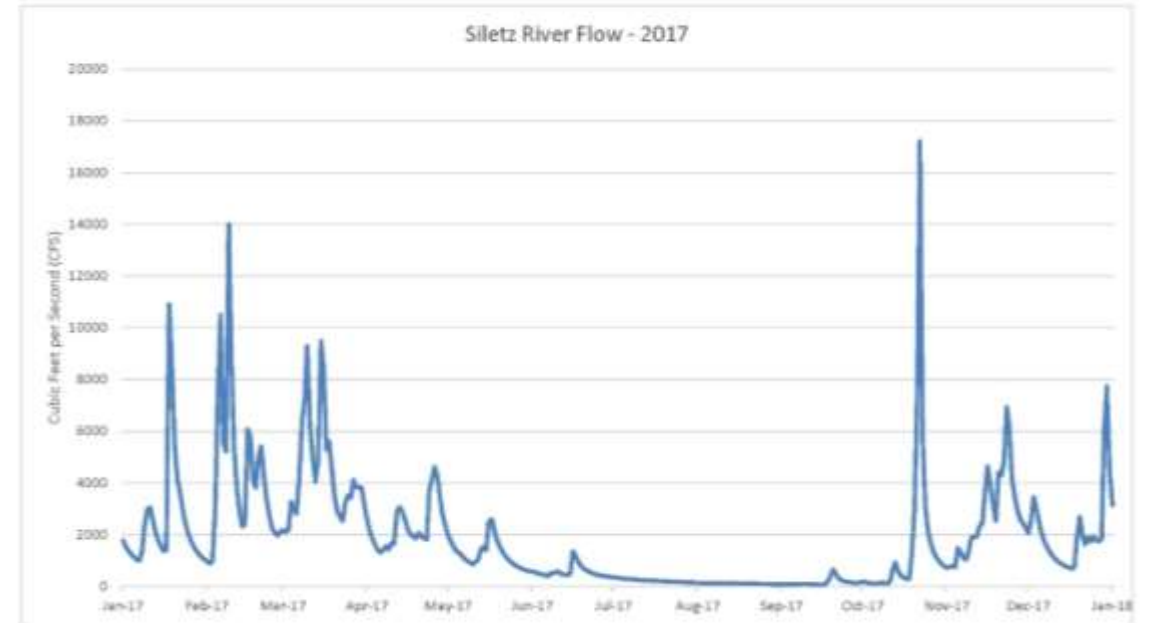
1. Devils Lake Watershed
2. Drift Creek Area
3. Moolack Frontal
4. Schooner Creek minimum streamflow at intake: 3 cfs

EXAMPLE: WATER DEMAND ON THE SILETZ RIVER

The Cities of Siletz, Toledo, and Newport, the Seal Rock Water District, and the Georgia Pacific Mill all share the Siletz River as a drinking water source, with intakes near the City of Siletz.

Municipal and Commercial Water Demand: 34.6 CFS or 22.37 MGD

Min. Stream Flow in August 2017: 82 CFS
(Note: gauge is upriver of intakes)



Select Water Rights by Priority Date (Note: does not include all water rights on the Siletz River) 9/17/2014

Water Right Holder	Water Right	Source	Quantity (cfs)	Quantity (mgd)	Priority Date	Notes
City of Toledo	Certificate 87645/ Transfer T-11451	Siletz River	1.34	0.87	10/24/1929	Certificated and senior to instream water rights
City of Toledo	Permit S-9370	Siletz River	2.66	1.72	10/24/1929	Permit extension to October 1, 2040. As part of a permit extension, this permit was conditioned by OWRD to "maintain the persistence of listed fish."
City of Toledo	Certificate 14396	Siletz River	1.75	1.13	2/12/1937	Certificated and senior to instream water rights
City of Siletz	Certificate 27681	Siletz River	0.25	0.16	8/6/1953	Certificated and senior to instream water rights
Georgia-Pacific Corporation	Certificate 66640	Siletz River	15.0	9.69	5/29/1963	Certificated and senior to instream water rights
City of Newport	Certificate 89102	Siletz River	6.0	3.88	9/24/1963	Certificated and senior to instream water rights
State of Oregon Water Resources Department	Certificate 67712	Siletz River	135 – 200	87 – 129	7/12/1966	In the Siletz River from the USGS Gage 14-3055 at stream mile 42.6 to the mouth of the Siletz River.
State of Oregon Water Resources Department	Certificate 67713	Siletz River	135 – 220	87 – 142	3/26/1974	In the Siletz River from the USGS Gage 14-3055 at stream mile 42.6 to the mouth of the Siletz River.
Seal Rock Water District	Permit S-40277	Siletz River	2.6	1.68	2/28/1973	Permit extension to October 1, 2043. This permit is junior to instream water right certificate 67712, which protects between 100 and 200 cfs instream
City of Toledo	Permit S-44083	Siletz River	4	2.59	3/23/1979	Permit extension to October 1, 2055. As part of a permit extension, this permit was conditioned by OWRD to "maintain the persistence of listed fish." This permit is junior to instream water right certificates 67712 and 67713, which protects between 100 and 220 cfs instream.
City of Siletz	Permit S-49649	Siletz River	1.0	0.65	12/20/1985	Permit extension to October 1, 2051. As part of a permit extension, the majority of this permit was conditioned by OWRD to "maintain the persistence of listed fish." This permit is junior to instream water right certificates 67712 and 67713, which protects between 100 and 220 cfs instream.

Instream Water Rights on Siletz River near City of Newport Intake

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct 1-15	Oct 16-31	Nov	Dec
Certificate 67712	200	200	200	200	200	135	100	100	100	150	200	200	200
Certificate 67713	200	200	200	200	200	135	100	100	100	150	200	220	220

Ecological Overview

The Siletz River drainage area has a diversity of species and a large restoration project and study in the Mill Creek watershed to improve fish habitat and monitor the outcomes of stream restoration. The watershed has several significant surface water points of diversion.

Areas of Ecological Importance. A large portion of the Siletz River Watershed is a Conservation Opportunity Area (ODFW⁴, 2017).

Species of Interest:

- Fall chinook
- Spring chinook
- Chum
- Coho

NMFS has identified the Siletz River, Middle Siletz, and Lower Siletz as critical habitat for Oregon coast coho salmon.

- Summer Steelhead

The Siletz River Watershed has the only coastal origin population of summer steelhead in Oregon.

- Winter steelhead
- Cutthroat trout
- Pacific lamprey

PROTECTED SPECIES AND SPECIES OF INTEREST - SILETZ RIVER



California Myotis (Modeled Habitat)
Myotis californicus



Clouded Salamander (Modeled Habitat)
Aneides ferreus



Coho Salmon (Documented)
Oncorhynchus kisutch



Hoary Bat (Modeled Habitat)
Lasiurus cinereus



Northern Spotted Owl (Modeled Habitat)
Strix occidentalis caurina



Red Tree Vole (Modeled Habitat)
Arborimus longicaudus



Steelhead / Rainbow / Redband Trout (Documented)
Oncorhynchus mykiss ssp



Chinook Salmon (Documented)
Oncorhynchus tshawytscha



Coastal Cutthroat Trout (Documented)
Oncorhynchus clarki clarki



Eulachon (Documented)
Thaleichthys pacificus



Long-legged Myotis (Modeled Habitat)
Myotis volans



Olive-sided Flycatcher (Modeled Habitat)
Contopus cooperi



Silver-haired Bat (Modeled Habitat)
Lasiurus noctivagans



Purple Martin (Modeled Habitat)
Progne subis arboricola



Chum Salmon (Documented)
Oncorhynchus keta



Coastal Tailed Frog (Modeled Habitat)
Ascaphus truei



Fringed Myotis (Modeled Habitat)
Myotis thysanodes



Marbled Murrelet (Observed)
Brachyramphus marmoratus



Pacific Lamprey (Documented)
Entosphenus tridentatus



Southern Torrent Salamander (Modeled Habitat)
Rhyacotriton variegatus

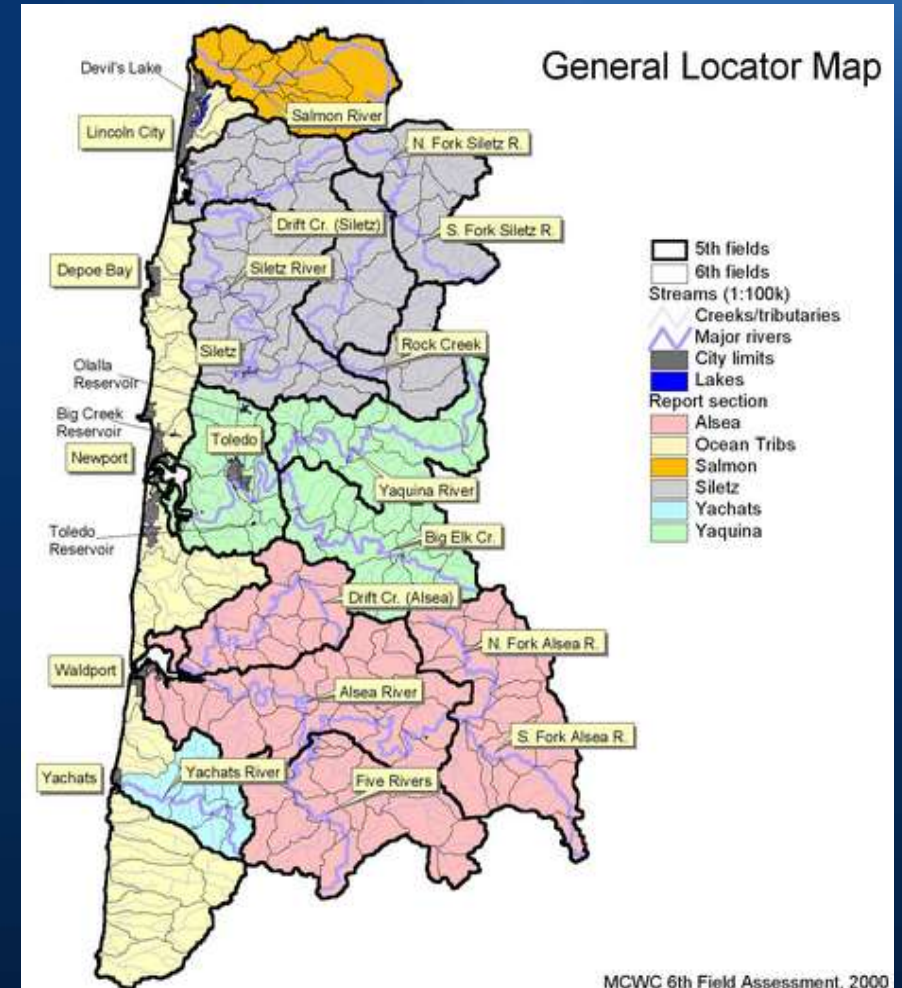


Western Toad (Modeled Habitat)
Anaxyrus boreas

HOW DOES IT WORK?

Over the next three years, the Partnership will explore strategies to:

- **Replace** aging infrastructure, **improve** conservation, **enhance** regional water supply options, and more effectively **share** water.
- **Relieve pressure** on rivers, streams, and tributaries while **meeting the water needs** for coastal communities and industries.
- **Create redundancies** in our system so we are more resilient to drought, storms, and other natural vulnerabilities.
- **Create a learning and action network** for small water providers who are often most vulnerable to environmental and regulatory challenges.



HOW ARE WE STRUCTURED?

PARTNERSHIP STRUCTURE AND ROLES



WHO HAS BEEN INVOLVED?

- 280 stakeholders on our master list and 120 actively participating
- 50+ partners have signed the charter
- 5 Partnership meetings with an average attendance of 50 people
- 8 Study Group meetings with an average attendance of 12 People
- 3 field tours averaging 35-40 attendees
- 4 Communication and Outreach meetings with ~10 members regularly participating
- 15 Coordinating Committee meetings with ~10 members regularly participating



WHAT HAVE WE ACCOMPLISHED?

- Formed new collaborative relationships with Diverse partners
- Shared technical information, resources, and assistance among partners
- Developed a shared baseline understanding of water resources in the Mid-Coast
- Developed technical reports on water quantity, water quality, ecology, and infrastructure
- Developed and signed a Governing Charter
- Developed and Initiated a Communication and Outreach Plan
- Secured grant funding to keep us moving forward



HOW DO OUR PARTNERS BENEFIT FROM PARTICIPATION IN THE MCWPP?

Water Suppliers/Cities

- The Partnership creates opportunities to develop contacts and relationships As an Essential Basis for mutual aid agreements in Emergencies
- Provides opportunities to Collaborate With Partners on Grant Funding and Projects with Regional Significance and Local Benefits
- Fosters conversations Toward understanding the needs of each agency IN a Community and Regional Context
- Helps Demonstrate Local and Regional Benefits of Proposed Projects that seek mitigation funding



HOW DO OUR PARTNERS BENEFIT FROM PARTICIPATION IN THE MCWPP?



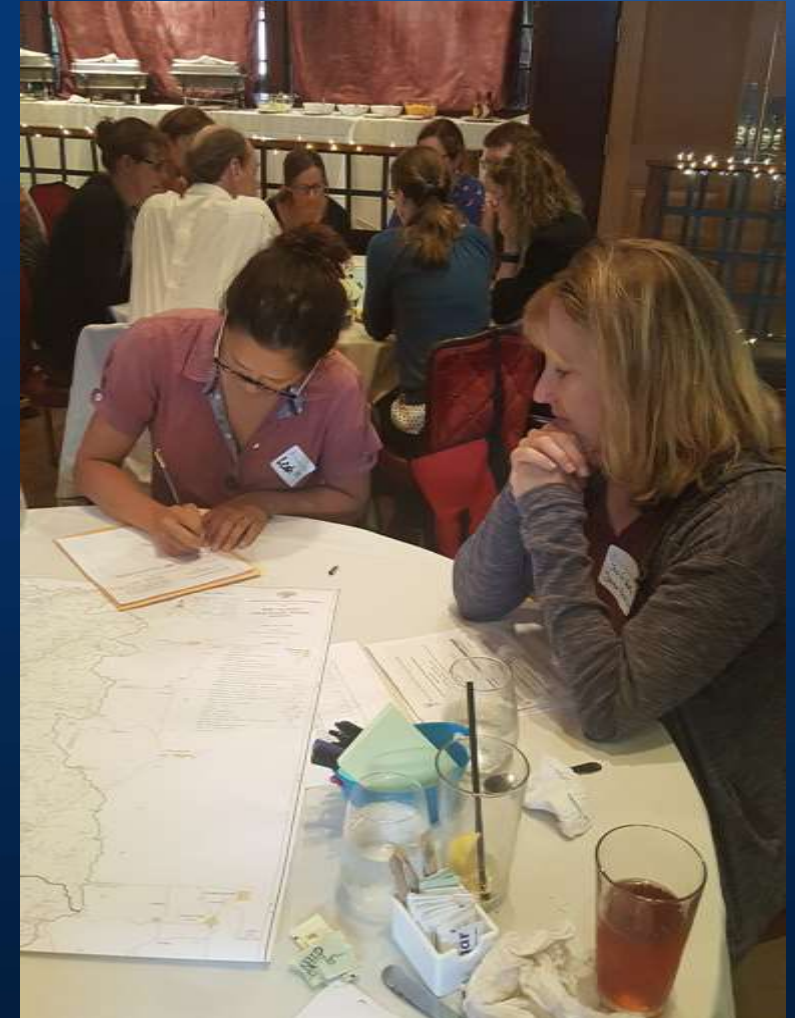
Natural Resource Industries/Forestry

- NON-REGULATORY APPROACH TO MANAGING LOCAL WATER ISSUES
- FOSTERS Local, Direct Relationship Building with Communities around Shared Values And Priorities
- Provides a Forum for Education and Outreach About Your Business and Industry – Opportunities TO PROMOTE GREATER PUBLIC UNDERSTANDING OF Natural Resource Activities and their Impacts
- Allows Your PRIORITIES, GOALS, and ROLE IN LOCAL WATER RESOURCES TO BE INCLUDED In A REGIONAL PLAN

HOW DO OUR PARTNERS BENEFIT FROM PARTICIPATION IN THE MCWPP?

Local Businesses

- Opportunity to influence water suppliers about important issues relating to water availability, economy and cost/value of water.
- Raises Awareness of the importance of Water to the Success of local Businesses and Economies
- Provides a Forum to Educate Local Communities about Water Use Patterns and Private Conservation Efforts
- Contributes to Development of sustainable water supplies
- Promotes Strategies that Help businesses to recover after a natural disaster



HOW DO OUR PARTNERS BENEFIT FROM PARTICIPATION IN THE MCWPP?



Conservation/Ecology/Community Development

- Helps Develop a Process for Discussing and Communicating Local Water Priorities
- Provides a Forum To Educate Local Communities about The Ecological Role and Value of Water Resources
- Provides Opportunities to Participate in Novel Cooperative Partnerships on Projects of Mutual Benefit
- Ensures that Regional Planning Considers long term water needs and impacts

CHALLENGES TO THE PARTNERSHIP

- Trust
- Time
- Resources (\$)

SNAPSHOT OF PLANNING COSTS AND FUTURE NEEDS

Place Based Planning Resources and Costs

RESOURCES

	<u>Consulting</u>	<u>Administrative</u>	<u>Specialty</u>	<u>Comm/Outreach</u>	<u>Partnership</u>	<u>Total</u>
OWRD Grant	\$135,000					\$135,000
City of Newport	\$135,000					\$135,000
Oregon Community Foundation					\$20,000	\$20,000
Meyer Memorial Trust	\$90,000	\$12,500	\$42,500	\$20,000	\$20,000	\$185,000
	\$360,000					\$475,000

EXPENSES

CONSULTING COSTS

FACILITATION: \$234,525

TECHNICAL WATER CONSULTING: \$283,900

FINANCIAL/GRANT CONSULTING: \$72,770

Total Consulting Obligations Through Planning Step 3: \$591,195

Consulting Obligations through Planning Step 2: \$291,210

Projected Consulting Funding Shortfall through Planning Step 3: \$231,195

ADMINISTRATIVE COSTS

AS OF 1-17-18

MISC COSTS: \$6,470

SPECIALTY COSTS

OREGON KITCHEN TABLE: \$42,500

Start of Planning work: 7/6/2016

Completion of Planning Step 2: 12/30/2017

Months: 18

Costs per month through planning step 2: \$16,724

COMMUNICATION & OUTREACH

DESIGN SERVICES, MATERIALS, AND TRANSLATION SERVICES: \$20,000

PARTNERSHIP

STIPENDS AND TRAVEL EXPENSES: \$40,000

Total Obligations: \$700,165

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Place Based Planning Resources and Costs

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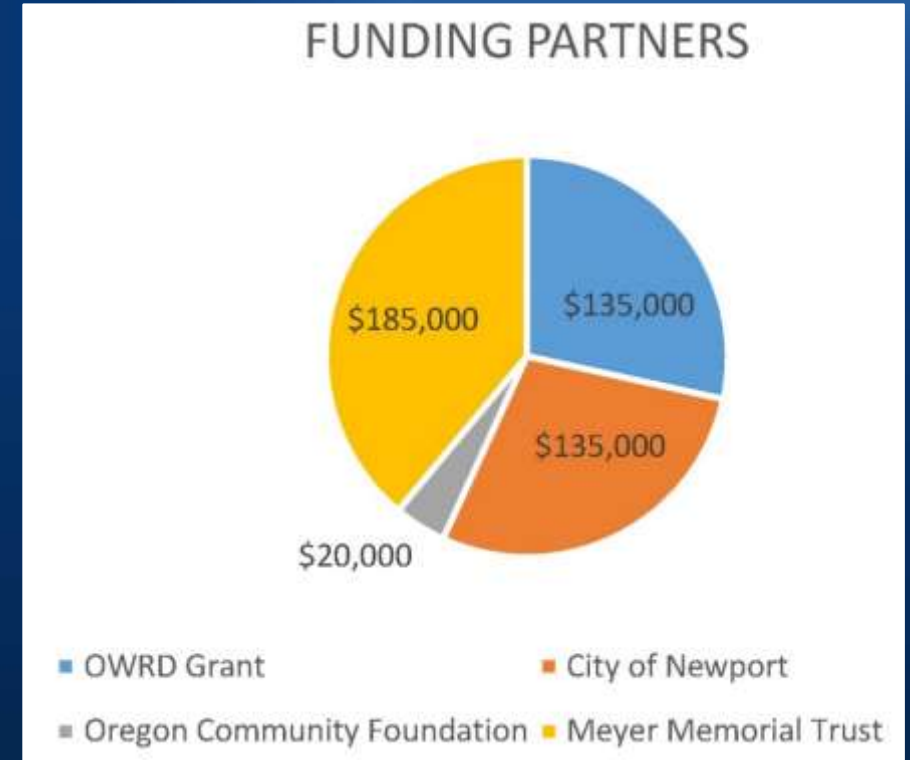
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FUNDING SUMMARY – LESSONS LEARNED

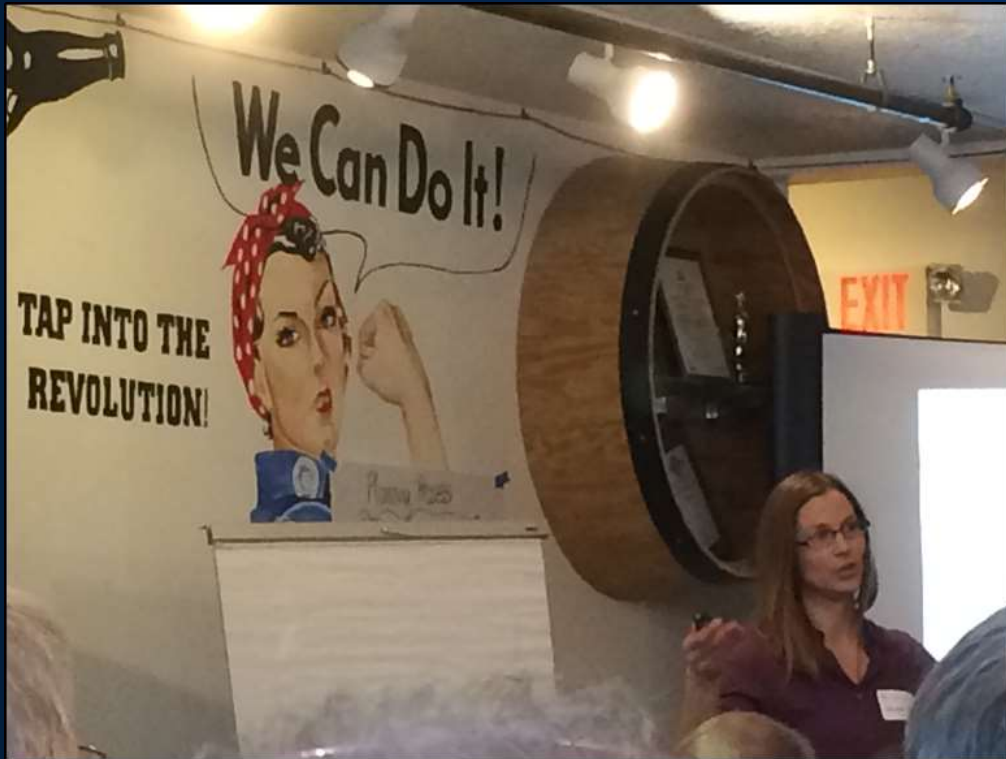
- \$231,195 EXPECTED SHORTFALL TO COMPLETE PLANNING STEP 3. Planning step 3 is planned to end in April 2019. Includes no contingency.
- To continue planning process through end of FY18-19 (June 30, 2019) Partnership needs an additional **\$285,000**.
- To date, financing for the planning process has come only from the conveners (City of Newport and OWRD) and from grants acquired by the conveners.
- Your IN-Person Participation in Partnership Meetings is the Basis of Our Success. Facilitating That Participation and Leveraging It Toward Actual Results Requires Funding.



FUNDING SUMMARY

– LESSONS LEARNED

MANY SMALLER CONTRIBUTIONS
WILL GO A LONG WAY



Local Match Detail

Tiers

Tier One - Local Government – 10,000 – 25,000

Tier Two – Business Leaders - 7,500 – 15,000

Tier Three – Water Protectors – 3,000 – 7,000

Tier Four – Community Water Partners – 500 – 2,500

Potential Funding Partners	Tier	High	Middle	Low
1 Bay Hills Water Association	Four	\$2,500	\$1,500	\$500
2 Beverly Beach Water District	Four	\$2,500	\$1,500	\$500
3 Seal Rock Water District	Four	\$2,500	\$1,500	\$500
4 Otter Rock Water District	Four	\$2,500	\$1,500	\$500
5 Panther Creek Water District	Four	\$2,500	\$1,500	\$500
6 SW Lincoln County Water District	Four	\$2,500	\$1,500	\$500
7 Department of Environmental Quality	Three	\$7,000	\$5,000	\$3,000
8 Oregon Fish and Wildlife	Three	\$7,000	\$5,000	\$3,000
9 Lower Siletz Water District	Three	\$7,000	\$5,000	\$3,000
10 Pacific Shrimp	Two	\$15,000	\$10,000	\$7,500
11 Central Lincoln People's Utility District	Two	\$15,000	\$10,000	\$7,500
12 Georgia Pacific Foundation	Two	\$15,000	\$10,000	\$7,500
13 Port of Newport	Two	\$15,000	\$10,000	\$7,500
14 Rogue Brewery	Two	\$15,000	\$10,000	\$7,500
15 Confederated Tribe of Siletz Indians	One	\$25,000	\$15,000	\$10,000
16 City of Newport	One	\$25,000	\$15,000	\$10,000
17 City of Depoe Bay	One	\$25,000	\$15,000	\$10,000
18 City of Lincoln City	One	\$25,000	\$15,000	\$10,000
19 City of Toledo	One	\$25,000	\$15,000	\$10,000
20 City of Waldport	One	\$25,000	\$15,000	\$10,000
21 City of Yachats	One	\$25,000	\$15,000	\$10,000
22 City of Siletz	One	\$25,000	\$15,000	\$10,000
23 Lincoln County	One	\$25,000	\$15,000	\$10,000
Potential Totals		\$336,000	\$209,000	\$139,500

FUNDING SUMMARY – LESSONS LEARNED

ADDITIONAL WAYS FOR PARTNERS TO PARTICIPATE

Consider the benefits your Organization has already received by participating in the MCWPP, and other ways you can Sustain the partnership outside of Simple cash contributions:

- Perhaps your Group would consider hosting a MCWPP meeting in the future, Providing a venue or Sponsoring A Meal for Participants.
- Coordinate with other partners to Develop and host a field tour.
- Develop an Informational Presentation for Partnership Participants.
- Sponsor the cost of consultants' time to attend MCWPP meetings.





THANK YOU!

Next Partnership Meeting: MAY 30, 2018
Best Western Agate Beach, Newport, OR
Midcoastwaterpartners.com

Mid Coast Water Planning Partnership Conveners

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