

STATE OF OREGON



Executive Summary

Phase 1 Application – Oregon Rural Resilience Incubator

U.S. Department of Housing and Urban Development National Disaster Resilience Competition (HUD NDRC)

Submitted March 27, 2015

Exhibit A: Executive Summary

State of Oregon

ExhibitAExecutiveSummary.pdf

Exhibit A: Executive Summary: Every year Oregon experiences “chronic” natural hazard events; flooding, landslides and storms loom large during the winter and the summer-time fire season has been starting earlier and ending later. These chronic hazards have resulted in 19 major disaster declarations in the last 25 years with 40 Federal Emergency Management Agency fire declarations during the same time period. From 2011 to 2013, Oregon experienced three major disaster declarations: two severe storms with flooding and landslides, and one tsunami disaster. Our rural communities, many of which are economically distressed with a high percentage of low and moderate income people, bear the brunt of these reoccurring disaster threats. The more subtle effects from climate change are increasing the flood and wildfire risks in parts of the state, and sea level rise is presenting new risks of coastal flooding. Perhaps more importantly than the chronic natural hazards, Oregon faces an overwhelming risk to future catastrophic hazard events. Oregon will inevitably suffer from a magnitude 9 earthquake triggered by the Cascadia Subduction Zone fault (CSZ) located just 30 to 60 miles off its coast. This offshore earthquake will generate five minutes of strong shaking followed by a powerful tsunami causing extreme damage and loss.

It is for these reasons that Oregon is applying for HUD National Disaster Resilience Competition (NDRC) funds. There is a great need—as well as strong motivation and support—within Oregon for a focused effort that brings together Oregon’s state and local organizations to develop a resiliency strategy for coastal areas. Oregon is known for its strong sense of community and grassroots-style initiatives. These characteristics make for an engaged network of community-based non-profit groups and philanthropic organizations. To date however, there has not been funding or a focused program to strengthen partnerships among these players and steer them under a unified mission of coastal resiliency. HUD’s

NDRC provides a perfect opportunity to fill this need for a focused and cohesive coastal resilience program.

If awarded CDBG-NDR funding, Oregon will utilize the Governor's Regional Solutions framework to identify the best and most effective projects to implement a coordinated resiliency strategy, which will be called the *Oregon Rural Resilience Incubator*. Regional Solutions is a public/private planning initiative established in 2011. Comprised of representatives from state government, local agencies and Oregon universities, it aims to solve local community problems through projects that advance economic health, efficient infrastructure systems, resilience, secure housing, and community priorities. This framework will help ensure communities are effectively engaged, and that expertise and other funding resources throughout the state are successfully leveraged.

The *Oregon Rural Resilience Incubator* will be pilot tested in the coastal communities of Brookings and Reedsport. Not only are these communities suffering from the long term impacts of economic divestment due to the decline of Oregon's timber industry, both are also still grappling with the impacts of recent natural disasters. Tsunami wave surges in 2011 and a severe winter storm with flooding and landslides in 2012 caused significant damage in Brookings, particularly to the community's port, sewer system and to residential properties located along a bluff that failed. Major repairs are still needed, but sufficient resources are lacking. Meanwhile, sea level rise is increasing the community's vulnerability to storm surge events, coastal flooding and salt water contamination of its water supply. Reedsport has been devastated by qualifying flood events in recent years. Located just 3 miles inland from the Pacific coast, at the confluence of the Umpqua, Smith and Scholfield rivers, this community has experienced repeated flooding events. Commercial and residential properties have been damaged by these floods, and owners have been unable to fully repair the substantial damage. The City's limited flood control infrastructure has not been adequate in recent events, raising

the concern about more severe damage as the intensity and frequency of heavy rain events increase, and the sea level rise, due to climate change.

Oregon has all of the key elements that will make the *Oregon Rural Resilience Incubator* highly successful. Besides the tried-and-true Regional Solutions framework, the Governor recently formed a Resilience Cabinet to set and guide statewide policy to coordinate resources for disaster resiliency, demonstrating that resiliency is a priority for the state. Meanwhile, the communities of Brookings and Reedsport are enthusiastic, have very clear need and desire to increase their community resilience and have already shown themselves to be highly engaged partners. The NDRC grant would provide much needed resources to these communities, and the communities are prepared to support the program with local participation and other resources.

The *Oregon Rural Resilience Incubator* will allow our target areas to frame their needs and then work closely with partners to identify and implement the most impactful CDBG-NDR eligible projects. Moreover, our rural communities, with their smaller scale, will allow for comparatively rapid prototyping and execution of resilience strategies that can then be successfully replicated for future resilience projects throughout Oregon and elsewhere. The Oregon Business Development Department (OBDD), which has a long history of successfully stewarding HUD CDBG funding to implement infrastructure and housing projects, would be the administering agency ensuring that CDBG-NDR funding is used in compliance with all applicable rules and regulations. CDBG-NDR funds are critical to the physical, social and economic resilience of our rural coastal communities that have and will continue to suffer disproportionately from increasingly extreme disasters.

Exhibit B: Threshold Requirements

State of Oregon

ExhibitBThreshold.pdf

Exhibit B: Threshold Requirements

Eligible Applicant: As outlined in HUD's Notice of Funding Availability (NOFA) for the National Disaster Resilience Competition (FR-5800-N-29), the State of Oregon is eligible to apply for HUD Community Development Block Grant National Disaster Resilience (CDBG-NDR) funding.

National Objective and Overall Benefit: Any projects proposed for CDBG-NDR funding during the Phase 2 Application process will meet one of the three national objectives required under CDBG: benefit low and moderate income persons (LMI Benefit); prevent or eliminate blight (Slum and Blight); or meet other community development needs having a particular urgency because existing conditions pose a serious and immediate threat to the health or welfare of the community (Urgent Need). Collectively, all projects funded using CDBG-NDR funding will meet the overall LMI benefit requirement with at least 50 percent of the total funds providing benefit to low- and moderate-income (LMI) persons.

Eligible Activity and Tie-back and Incorporate Resilience: All proposed potential projects will tie-back to the eligible qualifying disaster event(s). Each project will be a CDBG-eligible activity and will incorporate ways to make housing, buildings, infrastructure and the environment more resilient to potential future disaster events.

One Application per Applicant: The State of Oregon Office of Emergency Management (OEM) which is submitting this application on behalf of the State of Oregon via grants.gov certifies that this is the only application that the State of Oregon is submitting in response to HUD's National Disaster Resilience Competition (FR-5800-N-29) NOFA.

Certifications: The State of Oregon certifies that it will comply with the certifications listed in Attachment C.

Proposed Target Areas: The State of Oregon is proposing two Sub-County Target Areas that meet the Unmet Need and Most Impacted and Distressed threshold requirements:

Brookings located in Curry County and Reedsport located in Douglas County. Both are eligible counties; Curry County had 2 major declared disasters (DR-1964 and DR-4055) and Douglas County had 2 major declared disasters (DR-1956 and DR-4055). The backup data with all threshold information is provided in Dropbox and a username and password was sent via email to HUD.

Sub-County Target Area 1: Brookings

BACKGROUND: The Brookings Harbor Community is a geographic area consisting of the City of Brookings and an urban area within the unincorporated territory of Curry County located just south of the City Limits. This is a common coupling of the two areas, which are both located within the boundaries of the Brookings Harbor School District and other local government special districts providing services such as libraries and port facilities. The population of the seven Census block groups which comprise the Brookings Harbor Community is estimated at 9,943 which is equal to about 44.5 percent of the total population of Curry County.

QUALIFYING DISASTER EVENTS: Brookings experienced two qualifying disaster events:

- Disaster Number 1964 (Tsunami Wave Surge): March 11, 2011
- Disaster Number 4055 (Severe Winter Storm, Flooding, Landslide): January 17-21, 2012

TARGET AREA DETAIL: Brookings consists of the following block groups: 410159503013, 410159503021, 410159503022, 410159503023, 410159504001, 410159504002, and 410159504004.

MOST IMPACTED CHARACTERISTICS

Infrastructure: The Port of Brookings Harbor was damaged by tsunami surges from a magnitude 9.0 Tōhoku earthquake offshore of the east coast of Honshu Island in Japan on March 11, 2011. The largest surge was estimated to be nearly 8 feet. The seawall failed and

slumped into the water. There was a total of \$5,978,697.86 in infrastructure damage to the dock as well as \$449,400 in damage to the mobile lift used during the disaster. During the 2012 disaster storm event, the City's sewer collection system also suffered damage totaling \$950,400.

Environmental Degradation: Several bluff-top residential properties adjacent to the Port were damaged when a portion of the bluff collapsed in November 2012. Brookings City Engineer, determined that the 2011 tsunami contributed to these slope failures. The tsunami surges into Brookings Harbor completely submerged the north and south jetties and the subject bluff is in direct alignment with the angle of impact of the tsunami surge into Brookings Harbor. The series of tsunami surges contributed to the instability of the sea cliff and accelerated the bluff failure that occurred on November 19-20, 2012. The damages to these properties was not covered by insurance and the property owners have been unable to secure financing to make the necessary repairs. All five of these properties are located within the tsunami inundation zone. Repairing the bluff failure is necessary to protect the surrounding community including nearby water and sewer infrastructure and a City sewer lift station located on one of the subject properties. The cost to repair the bluff exceeds \$500,000.

DISTRESSED CHARACTERISTICS

LMI Households: The Brookings Harbor Community makes up almost half of the population of Curry County. According to OED, Curry County's poverty rate estimate was 18.7 per cent in 2013, with one out of four children younger than 18 residing in households with income below the poverty line. The LMI population among the Brookings Harbor Community residents, according to the FY 2014 LMISD by State – All Block Groups, Based on 2006-2010 American Community Survey data, is 53.1%.

Economically Fragile Area: When the storms struck Brookings, they devastated an already economically fragile community. American Community Survey (ACS) 5 year estimates

dating back to 2009 (the first year these estimates were recorded) show the unemployment rate of the adult resident population in Brookings Harbor exceeding the National average. According to 2013 ACS 5-year estimates, the unemployment rate of the civilian population 16 years and older is 16.9%, or 174% of the national estimate (9.7%). ACS data was used as a substitute for standard Bureau of Labor Statistics (BLS) estimates, as BLS does not make publicly available unemployment data for areas the size of Brookings Harbor.

UNMET NEEDS

Infrastructure: The City's sewer collection system suffered substantial capacity issues as a result of the 2012 disaster storm event. The damage to the system resulted in five sanitary sewer overflows. Upon TV inspection it became evident that there was increased deterioration which an engineer for the City's Public Works Department concluded was directly tied to the storm. Based on video inspection and resulting pipe condition assessment estimates, the extent of pipe rehabilitation needed to restore the City's collection system is roughly two miles out of the entire five miles of collection system. The estimated cost of repairs to the collection system is \$950,400 which cannot be covered by other funding resources. The commercial basin dock damage, sport basin dock damage, crabbing dock parking lot, and mobile lift damage was not covered by FEMA or other funding sources. There remains a funding shortfall of \$856,200 to make these necessary repairs to the Port and the lift.

Environmental Degradation: Several months after the tsunami, several bluff-top residential properties adjacent to the Port were damaged when a portion of the bluff collapsed. The series of tsunami surges during the qualifying disaster event contributed to the instability of this sea cliff and accelerated the bluff failure on November 19-20, 2012. The damages to these properties was not covered by insurance and the property owners have been unable to

secure financing for repairs. It will cost \$540,000 to repair and stabilize the bluff to protect critical infrastructure in the surrounding community.

Sub-County Target Area 2: Reedsport

BACKGROUND: The City of Reedsport, located on the Western shore of Oregon is a small, isolated community in Douglas County with a population of 4,154 located less than three miles inland from the Pacific Coast. The core downtown area is largely surrounded by the Umpqua River, Schofield Creek and McIntosh Slough. Reedsport has a decades-long history of repetitive flood events. Within the levee controlled area is the commercial core containing the only major supermarkets for 20 miles in any direction; both City and County governmental buildings, the City; State of Oregon and County equipment yards (containing the regions disaster response equipment); and an array of HUD subsidized housing, low income mobile home parks and apartments, and affordable housing with an average fair market value of \$100,000. The City's levee also protects two State of Oregon Transportation facilities (Hwy 101 and Hwy 38).

QUALIFYING DISASTER EVENTS: Reedsport experienced two qualifying disaster events:

- Disaster Number 1956 (Severe Winter Storm, Flooding, Mudslide): January 13-21, 2011
- Disaster Number 4055 (Severe Winter Storm, Flooding, Landslide): January 17-21, 2012

TARGET AREA DETAIL: The Reedsport Target area consists of the following block groups: 410190200003, 410190100002 and 410190200001.

MOST IMPACTED CHARACTERISTICS

Economic Revitalization: The occurrence of two major flood events (DR-1956 and DR-4055) in consecutive years resulted in immense harm to Reedsport's economy in the core downtown area that was most impacted by these floods. Since the flood events of 2011 and

2012, the City has struggled to maintain businesses in the impacted area. Repetitive flooding and limited financial resources has deterred building owners from making proper repairs to damaged buildings. Building values (commercial and residential) have plummeted in value as many property owners have tried to liquidate properties in the impacted areas, even at a loss. Absent funding for major flood mitigation measures to eliminate the flood problems, Reedsport's downtown core is in decline. As a direct result of the qualifying disaster events, there was \$4,484,832 in damage to 15 commercial properties and the rate of occupancy for business buildings in the core downtown area most affected by the flooding has dropped 40% from 2012 to 2013.

Housing: Another major factor to the economic degradation to the community is the existence of seriously damaged houses resulting from the two major flood events. There was \$5,688,944 in damage to 143 residential properties located in the City's low and fixed income areas including two mobile home parks, a subsidized housing area and homes with a value of \$100,000 or less and comprised primarily of retirees and working class residents. All of these homes were seriously damaged with damages amounting to more than 50% of the total value of the home. None of these structures have NFIP flood insurance nor do the owners/tenants have the financial resources to property recover from these events, leading to such hazardous conditions as dry rot and foundation instability, toxic mold, and structure settlement. These conditions are the result of the City's levee system designed only to handle the peak flows of average storm events. These facilities are easily overwhelmed by the more frequently occurring super storms and have no backup system leaving the entire community vulnerable during pump failure or power outage.

MOST DISTRESSED CHARACTERISTIC: Economically Fragile Area: When the storms struck Reedsport, they devastated an already economically fragile community. The prolonged recovery and threat of similar disasters in the future, have made it difficult for businesses to

reopen and/or thrive after doing so. American Community Survey (ACS) 5 year estimates dating back to 2009 (the first year these estimates were recorded) show the unemployment rate of the adult resident population in Reedsport exceeding the National average. Higher than average unemployment continues to plague Reedsport. According to 2013 ACS 5-year estimates, the unemployment rate of the civilian population 16 years and older is 14.9%, or 154% of the national estimate (9.7%) using the same data. ACS data was used as a substitute for standard Bureau of Labor Statistics (BLS) estimates, as BLS does not make publicly available unemployment data for areas the size of Reedsport.

UNMET NEEDS

Housing: Reedsport has documented damage for 143 residential properties (though there are more) that have a continuing unmet recovery need as a result of the qualifying disaster events including 122 mobile homes and 21 stick built homes. There are 9 affidavits from homeowners confirming that the damage is due to the disaster and that the homeowner has inadequate resources from insurance, FEMA, SBA or other sources to pay to repair the damage.

Economic Revitalization: Reedsport has substantial unmet economic revitalization recovery needs. Due to the damage, previous tenants are closing their businesses (permanently, in many cases) and commercial building owners have had tremendous difficulty finding new tenants. The occupancy rate for business buildings in the core downtown area most impacted by the qualifying disaster events dropped 40% from 2012 to 2013 with many of these buildings not repaired at all or not fully repaired from the 2011 and 2012 floods. There are affidavits from 6 businesses located in Reedsport's commercial corridor confirming that each have damage due to the disaster that cannot be repaired using existing resources.

Exhibit C: Factor 1 – Capacity

State of Oregon

ExhibitCCapacity.pdf

Exhibit C: Factor 1 – Capacity

General Management. ADMINISTERING AGENCY: The Oregon Business Development Department (OBDD) will administer CDBG-NDR funding. OBDD is the state’s economic development agency and through OBDD’s Infrastructure Finance Authority (IFA), administers the State’s annual CDBG allocation. As the lead agency, OBDD will be responsible for administering CDBG-NDR funding and ensuring that all projects are compliant with CDBG-NDR rules and regulations and applicable other federal requirements. OBDD will utilize its Regional Coordinators who live and work in various communities throughout the State and have experience developing and implementing CDBG projects to work directly with local communities and partners to implement CDBG-NDR projects. OBDD brings CDBG and other federal requirements knowledge and expertise as well as extensive experience implementing economic development and infrastructure projects throughout the State.

ADMINISTERING AGENCY CAPACITY: OBDD has experience quickly launching and implementing major CDBG funded infrastructure and housing projects. Quality assurance is carried out at all levels of the administrative process for fund and project management. Support staff review the work of project coordinators prior to passing along documents to the supervisory level for project and funding approval. Projects with funding that exceed established limitations receive an additional level of management oversight and review prior to approval. All authority is designated and identified on a signature approval matrix. During project execution, staff visit the project site and monitor progress. Close out procedures assure all projects are carried out as initially approved or modified within approved budgets. OBDD’s Fiscal and Budget Services Division follows the standards of excellence established by the Secretary of State’s Audits division and state accounting principles established by the State Department of Administrative

Services. OBDD has two procurement staff that solicit and award over 250 contracts per year. The size of each contract ranges in cost from \$10,000 to several million dollars. OBDD's fiscal and budget services division follows the Governmental Accounting Standards Board (GASB) and the Oregon Accounting Manual (OAM) standards and internal controls as identified as best practice by the Secretary of State Audits Division. OBDD's Fiscal and Budget Services division was just recently awarded the Gold Star Award from the Department of Administration's Chief Financial Officer. This is the 5th consecutive year that the agency has earned this award (2010-2014) and it reinforces so many of the characteristics that OBDD values: timeliness, thoroughness, and accuracy.

PARTNER COORDINATION: OBDD has extensive experience managing and coordinating partners to carry out its over 30 business and infrastructure programs. OBDD is involved in numerous Advisory Bodies, Boards, and Commission and also works with various program constituent groups. OBDD is a member agency of Oregon Regional Solutions along with the following state agencies: Oregon Department of Transportation (ODOT); Department of Land Conservation and Development (DLCD); Department of Environmental Quality (DEQ); Department of State Lands (DSL); Oregon Department of Agriculture (ODA); Oregon Housing and Community Services (OHCS); Oregon Department of Energy (ODOE); Oregon Water Resources Department (OWRD); and Department of Consumer and Business Services (DCBS). In addition, depending on the need and nature of the project many other agencies participate such as Oregon Department of Fish and Wildlife (ODFW) and Oregon Department of Forestry (ODF). As part of Regional Solutions, OBDD acts as the fiduciary agent for Regional Solutions funded projects. In that role, OBDD drafts and executes contracts with local project sponsors and monitors construction and project completion.

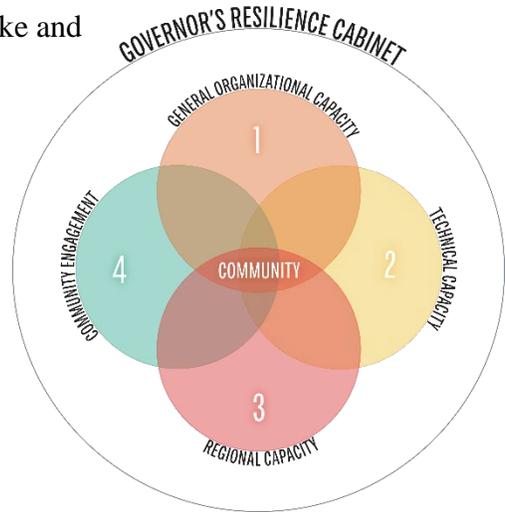
OBDD will work with Regional Solutions to determine which CDBG-NDR projects to fund during the Phase 2 application process. Regional Solutions will evaluate resilience needs with communities and other public as well as private and not-for-profit stakeholders in the region and together proposed project solutions. OBDD will ensure that only CDBG-NDR eligible projects are funded using CDBG-NDR funding. For each CDBG-NDR eligible project that is funded an OBDD Fiscal Lead will be assigned to the project and along with assisting with project implementation, ensure that the project is compliant with all applicable CDBG-NDR rules and requirements.

APPLICATION PREPARATION: The Governor's Office was the leader in developing this application and was supported by various state agencies. The Governor's Office assigned expert staff from the Department of Administrative Services (DAS), including the State Architect and Resilience Engineer to manage the application preparation process from NOFA release to application submission. These staff coordinated closely with the Governor's Office and representatives from many state and local agencies, nonprofits and universities to collect and organize the required elements of the application. Oregon also hired ICF International, a professional services firm with grant writing experience and expertise in CDBG, CDBG-DR, disaster resilience and climate change adaptation strategies to draft the application. The City Managers of both proposed target areas were also heavily involved throughout the application process to ensure that their community's needs were accurately reflected in the application. All invested and interested stakeholders will continue to meet on a regular basis to prepare the Phase 2 application and then ultimately implement CDBG-NDR projects. As it did for the Phase 1 application, Oregon plans to continue holding weekly check in calls with all decision makers to

provide status updates and ensure that the appropriate stakeholders are involved in key decisions over time.

Technical Capacity. PARTNER CAPACITY: Oregon has assembled a strong group of 55 partners that bring a wide variety of expertise and technical capacity to Oregon’s NDRC application.

While we understand not all partners are likely to be CDBG-NDR subrecipients or contractors, this list is emblematic of the organizational, regional and technical capacity our team brings to bear to assist with the design and implementation of CDBG-NDR funded projects. Many of our partners have the capacity to assess science-based earthquake and climate change information to determine current and future risks and many have successfully carried out major resilience projects. In particular, these partners bring expertise in tsunamis and coastal flooding issues which are the chief areas of vulnerability facing Oregon’s proposed target areas.



We have consulted with all of these organizations and all have made a commitment to the success of HUD CDBG-NDR projects in Oregon. As we work to define specific projects for funding during the Phase 2 application process, these partners can assist to help ensure the right community stakeholders are involved from the beginning and that projects are well defined and executable within HUD’s 24 month timeframe. The table below is just a subset of our 55 partners included in Attachment A and illustrates the various areas of expertise our different partners bring to Oregon’s Phase 1 Application. The Governor’s Resilience Cabinet will ensure the on-going coordination of these various partners. Partners that are *italicized* are those partners that represent various states and/or various local governments, officials or agencies.

	Infrastructure	Economic Devt.	Housing	Risk Assessment	Insurance	Vulnerable Populations	Disaster Resilience	Natural Hazards	Grants Mgmt.	Performance Measurement	General Org. Capacity	Technical Capacity	Regional Capacity	Community Engagement
OBDD + Regional Solutions	•	•	•			•			•	•	•	•	•	•
City of Brookings	•	•	•	•		•	•	•	•		•	•	•	•
Port of Brookings Harbor	•	•		•			•	•	•				•	•
City Council and Manager of Reedsport	•	•	•	•		•	•	•	•		•	•	•	•
<i>Association of Oregon Counties</i>													•	•
CCD Business Development Corporation		•										•		•
City of Crescent, California													•	•
City County Insurance Services (CIS)				•	•							•		
Coos-Curry Housing Authority			•			•					•		•	•
Curry Community Health	•			•		•	•							•
Curry Health Network	•			•		•	•						•	•
Guy Nordenson, Princeton University	•			•			•			•		•		
Housing Authority of Douglas County			•			•						•	•	•

	Infrastructure	Economic Devt.	Housing	Risk Assessment	Insurance	Vulnerable Populations	Disaster Resilience	Natural Hazards	Grants Mgmt.	Performance Measurement	General Org. Capacity	Technical Capacity	Regional Capacity	Community Engagement
<i>League of Oregon Cities</i>														•
Neighborworks Umpqua		•	•			•								•
Northwest Real Estate Capital Corporation		•	•			•								•
Oregon Climate Change Research Institute				•			•	•				•	•	•
<i>Oregon Coastal Zone Management Association</i>		•		•				•				•	•	
<i>Oregon Partnership for Disaster Resilience</i>	•	•	•	•			•	•				•	•	
<i>Oregon Sea Grant</i>												•	•	•
<i>Oregon Seismic Safety Policy Advisory Commission (OSSPAC)</i>				•			•	•				•	•	
Oregon State University	•	•	•	•		•	•	•				•	•	•
Rogue Credit Union				•	•	•								•
S. Coast & Umpqua Region Regional Solutions Advisory Committee and Regional Team	•	•	•	•	•	•	•	•	•	•	•		•	•

	Infrastructure	Economic Devt.	Housing	Risk Assessment	Insurance	Vulnerable Populations	Disaster Resilience	Natural Hazards	Grants Mgmt.	Performance Measurement	General Org. Capacity	Technical Capacity	Regional Capacity	Community Engagement
<i>South Coast Development Council</i>		•										•	•	•
<i>Southern Coastal Legislators</i>													•	•
<i>State Interagency Hazard Mitigation Team</i>	•	•	•	•			•	•				•	•	
Umpqua Soil and Water Conservation District	•							•				•		•
<i>West Coast Infrastructure Exchange (WCX)</i>	•	•		•			•	•				•	•	
TOTAL TEAM	13	14	11	16	3	10	13	12	5	3	5	17	20	22

CROSS-DISCIPLINARY CAPACITY: Regional Solutions and OBDD will tap applicable partners to assist with reviewing, designing, implementing and measuring outcomes for each CDBG-NDR project ensuring that the appropriate stakeholders are involved. As demonstrated in the table above, the vast majority of partners have cross-disciplinary capacity. One example of the cross-disciplinary and cross-agency partners is the Oregon Partnership for Disaster Resilience (OPDR). OPDR is a coalition of public, private, and professional organizations working collectively toward the mission of creating a disaster-resilient and sustainable state. OPDR developed a resilience framework, specifically addressing the disaster resilience issues facing Oregon’s coastal communities. Reedsport and Brookings have also engaged local community partners that they have worked with successfully in the past to implement projects.

PLANNING AND LARGE PROGRAM AND PROJECT IMPLEMENTATION EXPERIENCE: OBDD

has extensive experience planning and implementing large programs and projects. OBDD administers 30 different infrastructure programs addressing everything from brownfields remediation and wastewater systems to revolving loan funds to revitalize ports. OBDD also administers the Seismic Rehabilitation Grant Program (SRGP), a state of Oregon competitive grant program that provides funding for the seismic rehabilitation of critical public buildings, particularly public schools and emergency services facilities. Recently, OBDD and Oregon Water Resources Department helped develop legislation for the certification of levees in the State and provided information to the Legislature on potential funding sources to rehabilitate the levee structure. This legislation, which is being decided upon in the next few months, would improve the resilience of levees for the State as a whole.

CIVIL RIGHTS AND FAIR HOUSING ISSUES: OBDD in its capacity administering CDBG funds

for the Balance of State cities and counties educates its recipients about fair housing responsibilities in several ways including: presentations at workshops; a Grant Management Handbook which outlines fair housing requirements; and informational handouts, posters, and brochures and individual technical assistance, as needed or requested. OBDD ensures that its housing rehabilitation projects incorporate reasonable accommodations and ensures that protected classes, regardless of race, color, national origin, religion, sex, family status, or disability, have access to all program information and are given meaningful opportunities to participate in the decision-making process of all proposed programs and projects.

DESIGNING QUALITY TO ENSURE LONG TERM RESILIENCE: Before undertaking any project,

OBDD's first step is to bring onboard the appropriate state agency that can ensure the design quality of the project. For example, DEQ is brought on board for all public works projects and ODOT works with OBDD to design all transportation projects. If a project concerns water quality, DEQ and Oregon Health Authority are brought onboard to consult on the

design of the project. In addition, OBDD will work with its university and engineering partners that are experts in the relevant project area to design high quality proposals reflective of the latest disaster resilience research and technologies.

REDUNDANT CAPACITY: As demonstrated in the partner table include above we have redundancy in most relevant areas. If for any reason a partner decides to drop out, there is a deep bench of experts available to assist and cover that area. Where appropriate OBDD will undertake a competitive procurement process to ensure that the new partner is brought onboard in a competitive and transparent process in compliance with applicable regulations.

COST REASONABLENESS: OBDD, working with Regional Solutions partners including Oregon Emergency Management (OEM), will also ensure the cost reasonableness of each project. OBDD has expertise completing Benefit Cost Analyses (BCAs) for the state-funded Seismic Rehabilitation Grant Program using the Oregon BCA Tool which is derived from FEMA's BCA software and has been used to evaluate over 50 seismic retrofits for schools and critical facilities (fire stations, police stations, and hospitals) in Oregon. As a partner, OEM has comprehensive experience with benefit-cost analyses of hazard mitigation projects using FEMA's BCA software, including over 150 BCAs in recent years in support of successful FEMA mitigation grant applications. This experience includes all of the natural hazards that pose threats to Oregon including floods, landslides and tsunami that triggered the Presidential disaster declarations in 2011-2013. OEM's BCA experience includes the just-released Version 5.1 BCA software as well as the predecessor versions.

Community Engagement: In every community Regional Solutions and OBDD does work, they ensure that there is an opportunity for community stakeholders to get involved. This includes conducting outreach and holding community meetings about pending projects to ensure that the community understands why particular projects are undertaken to address future hazards and ensure that the way that each project is going to be undertaken takes into

account their concerns and protects vulnerable populations. Oregon has a close working relationship with Brookings and Reedsport City Managers, both of whom have kept their communities abreast of all CDBG-NDR related developments. This stakeholder consultation process has been reflected in our approach to preparing this application and will continue as we work on the Phase 2 Application and then implement projects. As Brookings and Reedsport did during the Phase 1 Application process, both communities plan to continue to hold public meetings and hearings to discuss on-going application developments and to discuss potential projects before they are implemented.

Regional Capacity. REGIONAL CAPACITY EXPERIENCE: Oregon has a long track record of working collaboratively across different agencies and regions to implement projects that improve the lives of its citizens and the long term resilience of its communities. In early 2014, a “mini Resilience Cabinet” was formed to evaluate issues being discussed by the Oregon Resilience Task Force that was created by Oregon’s 2013 Senate Bill 33. In late 2014, the Task Force proposed comprehensive recommendations to implement the strategic vision and roadmap of the 2013 Oregon Resilience Plan for preparing for the consequences of future magnitude 9 Cascadia earthquakes and tsunamis. In order to meet the State’s growing resilience needs, the Governor established the Governor’s Resilience Cabinet on February 10, 2015 in order to effectively and innovatively build resilience in rural communities. The Governor’s Resilience Cabinet will ensure that the appropriate regional and technical resources are brought to bear for CDBG-NDR project activities.

WORKING REGIONALLY: The threats that we are working to address impact other communities throughout the State. Flooding, tsunamis, earthquakes, landslides, and sea level rise are issues facing other communities throughout our State. The solutions to these issues in our proposed target areas will not adversely impact a surrounding area but will actually benefit other communities by helping improve transportation networks that might otherwise

fail in the event of a disaster and by improving the long term resilience of primary care facilities such as hospitals that serve surrounding regions. As outlined in more detail in Exhibit E, we propose to implement solutions to problems in Brookings and Reedsport that once successfully carried out can be transferred to other communities with similar needs.

HELPING VULNERABLE POPULATIONS: Our regional approach to framing our projects and the work that we plan to do will better protect the most vulnerable populations in each community. Currently, most LMI persons in these communities are not covered by insurance and cannot afford to relocate to better housing. Both communities have a high proportion of elderly people that will be adversely impacted by immobility issues caused by a disaster event. Finally both communities have a high unemployment rate that far exceeds the national average. Disaster resilience projects that better protect commercial corridors, the housing stock, transportation networks, and vital public infrastructure will reduce protected class-related disparities and improve choices and opportunities for vulnerable populations.

REGIONAL SOLUTIONS: A MULTI-GOVERNMENTAL STATEWIDE ENTITY: Oregon established Regional Solutions in 2011 and plans to apply its proven model to determine which CDBG-NDR projects are funded in the proposed target areas. Regional Solutions is an innovative, collaborative approach to community and economic development in Oregon. The State, in partnership with Oregon colleges and universities, established Regional Solutions Centers throughout Oregon. Starting at the local level to identify priorities, each center works from the bottom up to solve problems and complete projects. These centers integrate state agency work and funding to ensure that projects are finished as quickly and cost-effectively as possible. Since the inception of the Regional Solutions program, over \$640 million has been invested in priority community and economic development projects. As described in Exhibit E, using the Oregon Rural Resilience Incubator, Oregon will undertake projects that can be replicated in other communities experiencing similar risks and vulnerabilities.

Exhibit D: Factor 2 – Need/Extent of Problem

State of Oregon

ExhibitDNeed.pdf

Exhibit D: Factor 2 – Need/Extent of Problem

Unmet Needs Summary: As described in Exhibit B: Threshold Requirements, Brookings and Reedsport have continuing unmet needs as a result of the qualifying disaster events. Brookings located in Curry County along the southern coast of Oregon close to the California boundary experienced a qualifying tsunami wave surge (DR 1964) and a severe winter storm, flooding and landslide (DR 4055). As a result of these events, Brookings has continuing unmet infrastructure and environmental degradation recovery needs. The infrastructure needs include making repairs to the sewer collection system as well as remaining repairs to the Port and mobile lift not covered by FEMA. Brookings also experienced environmental degradation issues with the failure of the bluff which damaged five residential properties located along the bluff and continue to place the surrounding community at risk. Reedsport located in Douglas County less than 3 miles inland from the Pacific Coast and largely surrounded by the Umpqua River, Schofield Creek and McIntosh Slough has significant unmet recovery needs related to economic revitalization and housing. These unmet needs have been the result of two flood events (DR-1956 and DR-4055). There are commercial and residential properties located in repetitive flooding areas that sustained damage that owners have been unable to repair with existing resources. The City has limited flood control infrastructure that has proven inadequate when compared to the increasingly frequent super storms of the Pacific Northwest. By addressing these unmet recovery needs, Brookings and Reedsport can alleviate the current economic distress both communities are experiencing and build a more disaster resilient as well as economically resilient future.

Natural Hazard Risks: Oregon’s coastal communities including the proposed target areas of Reedsport and Brookings face substantial risk of future asset and resource damages, economic downturn, and human casualties from coastal and riverine flooding, landslides and mudslides, catastrophic (magnitude 9) earthquakes on the Cascadia Subduction Zone, and

tsunami flooding that could strike the coast 15 minutes after fault rupture. The risk associated with each type of hazard event occurring and an assessment of the projected impact of these events on the target areas are evaluated in the following sections. The information and data presented in this section and in the associated maps and drawings included in Attachment E represent the most recent data available on the natural hazard risks facing the proposed target areas and the broader region. A complete list of the resources used to prepare this risk summary and the associated impacts of these risks are also included in Attachment E.

EARTHQUAKE AND TSUNAMI: Major earthquakes, especially on the Cascadia Subduction Zone along the Oregon coast where Brookings and Reedsport are located, are low probability but pose the greatest overall natural hazard risk to Oregon and pose overwhelming risks for all of Oregon's coastal communities. Geological evidence indicates that over 40 great (larger than magnitude 8) earthquakes have occurred on the Cascadia fault over the past 10,000 years. The southern Oregon coast experiences approximately magnitude 8 earthquakes on the Cascadia fault every 240 years (the average return period for the southern segment of the Cascadia fault). The entire length of the Cascadia fault ruptures approximately every 500 years, which produces a magnitude 9 earthquake. The duration of shaking generated by a magnitude 8 to 9 Cascadia earthquake will last several minutes, and will cause catastrophic damage to the built environment in coastal communities.

The 2013 Oregon Resilience Plan (OSSPAC) findings indicate that it will take months to years to restore basic services to coastal communities. For areas outside the tsunami flooded zones, restoring electricity services due to earthquake shaking is estimated to take 3 to 6 months; drinking water and waste water services 1 to 3 years; healthcare facilities 3 years; and partial restoration of top priority highways 1 to 3 years. Major tsunamis from very large magnitude earthquakes on the Cascadia Subduction Zone also threaten infrastructure that is

critically important to economic vitality (and revitalization after an extreme event) as well as the lives of residents within the mapped tsunami inundation zones.

Tsunamis can also be generated from distant sources around the Pacific Ocean such as from earthquakes in Alaska, Japan and other locations. These are termed “distant tsunamis” and are expected to occur frequently due to the multitude of sources around the Pacific Ocean. The 2011 magnitude 9 earthquake in Tohoku Japan generated a distant tsunami that crossed the Pacific Ocean and caused damage to Brookings. Although the tsunami surges did not cause any dry land to be flooded, the forces from the high currents caused damage to the Port of Brookings. Both Brookings and Reedsport are expected to experience distant tsunami damage in the future.

FLOODING AND SEA LEVEL RISE: Both target communities are vulnerable to extreme precipitation events, including coastal flooding (e.g., from hurricane-like Pacific storms) that could be exacerbated by higher future storm surges due to sea level rise and riverine flooding as well as changes in future precipitation that lead to more frequent and severe extreme events. The National Climate Assessment (NCA) discusses projected increases in river-related flood risk and “increases of 0% to 20% in extreme daily precipitation, depending on location and definition of “extreme” (for example, annual wettest day)”. Floodplain mapping by FEMA and DOGAMI also shows riverine flooding risk. As shown on these maps, governmental offices and utilities (critical for disaster response); downtown commercial buildings (critically important to the economy); and significant segments of each community’s housing stock are within mapped floodplains. Brookings experiences flooding and channel migration on the Chetco River, which bisects the community before flowing into the Pacific Ocean. The Chetco River supports both the potable water intake facilities and the Port of Brookings located near the river mouth. Brookings also faces the risk of saltwater intrusion to their water supply due to their proximity to the ocean. For example, the Harbor

Water District, located just south of Brookings, experienced saltwater intrusion into its drinking water source in 1987, 1989, and 2014. These incidents are projected to occur with more frequency due to flooding and tsunami events as well as sea level rise placing these communities' water systems at increasing risk.

Reedsport, which is located on a low lying landmass at the confluence of three rivers experiences frequent and severe flooding. Flooding in Reedsport occurs due to a combination of high river water levels, high rainfall intensity coupled with slow infiltration that creates ponding, and flood protection measures that are significantly under capacity. Reedsport has inadequate levee infrastructure, system safeguards (e.g. no backup power supply should windstorms knock out power to the storm water pump stations and no backup pumps, should a pump become damaged or incapacitated during a flood event), and sewer systems (e.g. inadequate closures to prevent storm water backflows into the wastewater system) to protect it from flooding events. Increased incidence and magnitude of flood events will also perpetuate and increase damage to property and infrastructure, and will increase the vulnerability of areas that already experience repeated flooding. Increased flooding will also disrupt vital transportation systems, interfering with the distribution of water, food, and essential services and add to blight as sandbags become standard around homes and the few remaining businesses that will remain in the community.

LANDSLIDES, MUDSLIDES, AND BLUFF EROSION: Landslides, mudslides and bluff erosion are frequent occurrences in Oregon's coastal communities, in particular, during winter storms. With average annual rainfall of over 70 inches, both Brookings and Reedsport have a long history of landslides and slope instability activities. Failure is common at over-steepened slopes, such as coastal bluffs eroded by distant tsunamis and storm surges and river bank erosion due to migrating stream channels. This risk puts critical infrastructure including major highways, water transmission lines, waste water treatment plants, electricity

distribution, and housing at high risk of failing during a disaster event. This was recently demonstrated with the collapse of the bluff in Brookings. The Brookings waste water treatment plant also experienced bluff erosion, until it was recently mitigated in 2014.

Science-Based Risk Approach to Selecting Projects: OEM, DOGAMI and Regional Solutions have already begun to review the extensive amount of scientific findings regarding the likelihood and extent of damage projected to be caused by these hazard events in the target areas. OBDD through the Regional Solutions process plans to employ a science-based risk approach for each proposed project that evaluates if the proposed project solution is likely to be resilient and survive in the event of each projected disaster event. While each project will tie back to the unmet recovery need created by the qualifying disaster event it is also Oregon's intention to ensure that each project is built or implemented to protect against the multitude of risks posed by the hazards described above.

Insurance: Most commercial building owners and residential homeowners in the target areas do not carry necessary hazard insurance. There are only 60 National Flood Insurance Policies (NFIP) issued in Reedsport (only 5 in the flood zone) and 23 in Brookings (only 2 in the flood zone). The high proportion of NFIP policies outside the flood zone as well as recent flooding events demonstrate there are flooding risks not accounted for by the current flood zone maps. Based on a survey conducted by the Department of Consumer and Business Services in 2014 of insurance companies covering over 60% of the homeownership market in Oregon, only 17.45% of Curry County homes and 5.27% of Douglas County homes have earthquake coverage. Improvements that are not currently insured against flood or earthquake damage could experience catastrophic property damage and losses as a result of a flood or earthquake.

A large percentage of households located in Oregon's coastal communities do not have mortgages and, therefore, no bank requires the owner to maintain flood insurance. Many

owners simply cannot afford to maintain insurance. Just this past month, Brookings found out that flood insurance rates for homeowners in their community are going to increase this year by 25 to 35 percent. Most insurers are also unwilling to write policies for older manufactured houses (which are found in both target communities). Further the overall cost of earthquake insurance has risen substantially based on new modeling by professional loss assessment firms, an updated seismic hazard map from the U.S. Geological Survey and pressures from reinsurers (who pay a portion of losses) to make sure policies are priced accurately for future risk. FEMA also recently revised their levee certification requirements and if Reedsport cannot meet these new certification standards, the cost of insurance in the surrounding area will more than triple putting an average policy at around \$3,000 annually. All of these changes create insurmountable hardships for LMI households, which may find it unaffordable to remain in their current communities due to frequent flood damage repair and insurance costs. Reedsport has investigated the cost for insuring the City's facilities and determined the cost for those buildings alone will run around \$50,000 annually, meaning that the City would have to further cut essential services like Fire Police or levee facility improvement funds in order to keep up with these growing premiums.

Disproportionate-effects: Many of the areas most impacted and threatened by earthquakes, tsunamis, flooding, and landslides are areas with a relatively high percentage of LMI residents. The target areas are also home to a large population of elderly residents that are likely to be disproportionately impacted by a disaster event. The elderly face accessibility challenges and will have the most difficulty getting to safety quickly and accessing necessary medical services in the wake of a disaster. Following a disaster, residents need passable roads, access to medical services, functional utilities and transportation services, and access to communication networks. This is accentuated in rural areas where access to these resources can be far away. When interruptions of those services persist or recur frequently,

people with financial means to do so may abandon their investments in hazard prone areas and may choose to move elsewhere which can lead to lower home values. This adversely impacts the remaining LMI population putting the most vulnerable and financially restricted demographic at greater risk from a future occurrence.

Opportunity and Context: Brookings and Reedsport enjoy beautiful coastal settings, clean and healthy rivers, temperate climate, abundant wildlife, and many outdoor recreation opportunities. The City Managers of both communities have capacity and experience to carry out these projects, making them ideal communities to pilot CDBG-NDR resilience programs and projects that can then be replicated in other coastal communities throughout the State facing similar risks and vulnerabilities.

As evidenced in Exhibit B, Brookings and Reedsport also have demonstrated need and economic challenges with small aging populations that face water, power and communication insecurities in the event of a major disaster. The loss of the timber industry and associated manufacturing and processing activities which were formerly the primary economic driver in these towns have enhanced the economic vulnerabilities facing Oregon's coastal communities. Supporting economically distressed areas such as Brookings and Reedsport is a priority for Oregon. By planning and implementing resilience measures now, Brookings and Reedsport can experience faster economic recovery in the event of a disaster event while potentially attracting new private investment because the community is more resilient. These actions can help address exacerbating economic conditions faced by both of these communities including extensive unemployment and a shortage of resilient affordable housing.

Status and Barriers: Reedsport and Brookings Harbor have already embarked upon aggressive resilience programs. Over the past seven years, Brookings Harbor has replaced aging fire equipment; doubled the amount of water storage and improved water transmission

systems; constructed a medical clinic with an Urgent Care facility; and adopted infrastructure master plans for water, sewer, streets and storm drain systems. Brookings is currently constructing water and sewer improvements to enhance the Brookings Airport for use as a staging area during disaster emergencies. Similar to Brookings, Reedsport has been upgrading public facilities to address future events and has built and maintains the Coastal Emergency Operations Center for all of Coastal Douglas County. Reedsport has also developed a mobile command/communications vehicle and recently created an Emergency Operation Plan. In partnership with Douglas County, Reedsport is taking over the coastal piece of the Community Emergency Response Team (CERT) which teaches members of the community personal resiliency and basic first responder skills. Both communities have adopted the principles of the National Incident Management System (NIMS).

While Reedsport and Brookings have made significant progress to make their communities more resilient, they lack the necessary financial sources to address the unmet needs from previous disaster events. In order to address these needs and to realize some of the larger long term resilience goals such as protecting the water supply, making bridges and transportation routes more resilient and relocating or retrofitting housing and commercial stock, Brookings and Reedsport need additional funding.

Exhibit E: Factor 3 – Soundness of Approach

State of Oregon

ExhibitESoundnessofApproach.pdf

Exhibit E: Factor 3 – Soundness of Approach

Stakeholder Consultation: After the NOFA announcement in September, the Governor's Office reached out to the Emergency Manager in every eligible County and to state agencies to find out what mitigation, recovery and resilience activities had already been taken to recover from the applicable qualifying disaster event(s) and to find out what additional unmet needs still needed to be addressed for a full and resilient recovery. Based on the information received, representatives from different State agencies worked together to review FEMA damage assessments and where appropriate reach out to various communities that were impacted by major declared disasters in 2011-2013 to see which ones met the NOFA's threshold requirements and would be good candidates for including in the Phase 1 Application. After considering over a dozen communities, Brookings and Reedsport were determined to meet the minimum threshold requirements and also had demonstrated capacity to carry out potential CDBG-NDR projects.

The Consultation Summary in Attachment D and the range of partner letters included in Attachment A reflect the broad scope of outreach and partnership building achieved during the Phase 1 application process. Based on discussions and meetings with various communities and partners, Oregon learned about the various disaster resilience activities and programs happening throughout the region and the vulnerabilities and needs facing its coastal communities. These discussions also pointed to the rich base of scientific research that has already been done to catalogue and understand the State's disaster risks and vulnerabilities. The science-based climate and Cascadia Subduction Zone analyses that have already been conducted by our various partners will guide the design parameters to any intervention to meet long-term (30-year) resilience needs. There is also an extensive amount of strategic planning and regional coordination already taking place to tackle these issues.

Through close and ongoing consultation with the City Managers of both target communities, Oregon was also able to establish the largest risks facing these communities – flooding; earthquake and tsunamis; and sea level rise - which has informed the proposed approach outlined in this section. We also found that these communities are facing significant economic distress, and aging infrastructure and housing stock vulnerable to storm, flooding and tsunami events. Based on our discussions with other communities and partner experts, we also determined that many of Oregon’s coastal communities are facing the same types of threats and vulnerabilities. Therefore projects carried out in Brookings and Reedsport to solve these issues can be replicated in other coastal communities throughout the State.

There is a robust mechanism in place to ensure comprehensive and meaningful consultation going forward. In February 2015, the Governor’s Office announced the creation of a Resilience Cabinet which will provide statewide, long term capacity as well as ensure that the appropriate resources are brought to bear for proposed program and project efforts. Using the organizational framework of Oregon’s Regional Solutions with representatives from across state agencies ensures there will be continuing consultation with appropriate stakeholders in each phase.

Ideas/Concept. PROPOSED APPROACH: Oregon proposes the *Oregon Rural Resilience Incubator* which builds on the successful work of Oregon’s Regional Solutions institutionalizing Oregon’s experience and knowledge of what works to make communities more resilient. The Oregon Rural Resilience Incubator aims to implement innovative solutions and make strategic investments that bring complex systems science thinking to small coastal communities. The Oregon Rural Resilience Incubator will assist communities such as Brookings and Reedsport with resilience planning and project implementation and serve as an incubator of innovative resilience ideas that can be implemented in other communities. Below are the proposed steps.

Step 1: Community identifies a local need. Regional Solutions/OBDD Project Manager works with community to identify resilience needs and to propose alternative project solutions.

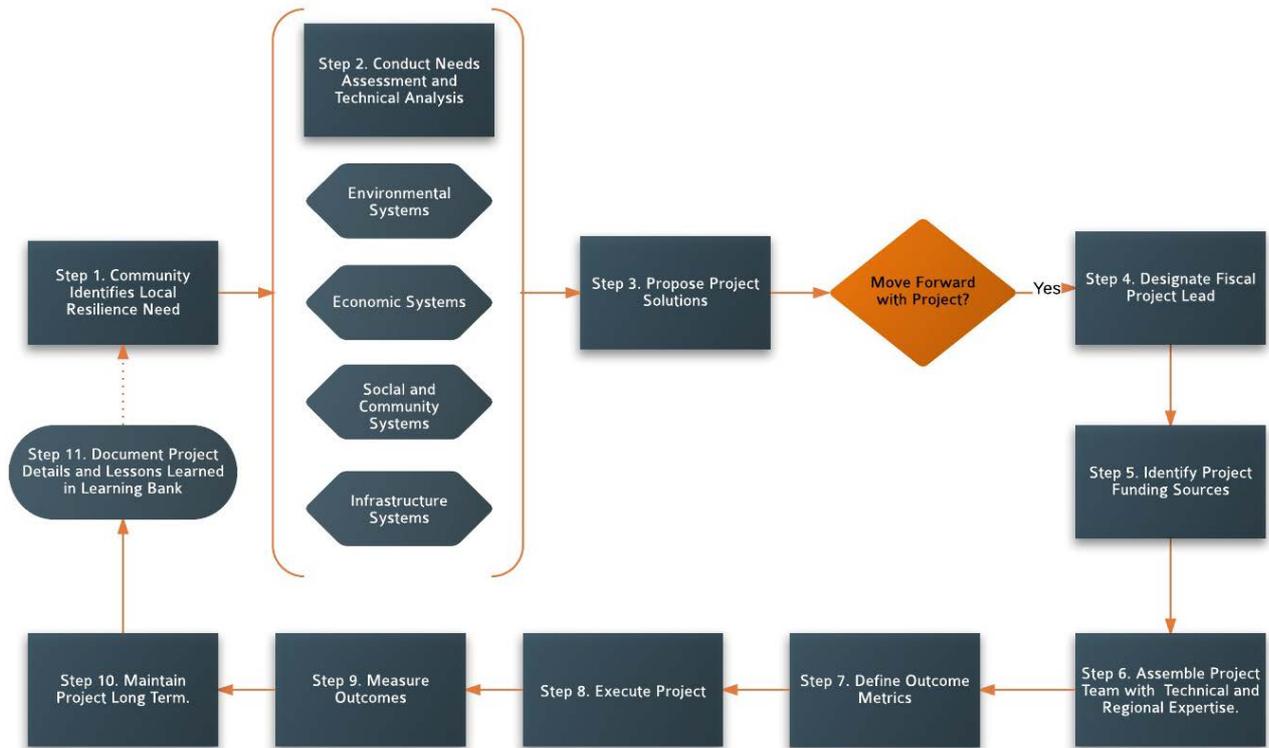
Step 2: Conduct needs assessment and technical analysis. The Regional Solutions Team, comprised of environmental, economic, social and community, and infrastructure experts, work with the Project Manager and local community to identify community needs and the technical nature of the problem.

Step 3: Propose project solutions. Based on the needs assessment and technical analysis, the Project Manager, Regional Solutions, and community propose project solutions. Depending on need and available financing, there may be multiple project solutions proposed. Factors that will be considered include the community's need, risk and capacity; cost-benefit analysis; potential outcomes of undertaking each proposed project; and the feasibility of long-term maintenance.

Step 4: Designate Fiscal Project Lead. For CDBG-NDR funded projects, OBDD designates a Fiscal Project Lead that will help administer the funding. (NOTE: This may be the same person as the Project Manager depending on the nature of the project.)

Step 5: Identify project funding sources. Using the budget projections proposed by the Technical Analysis team, Regional Solutions Team and Fiscal Project Lead identifies the funding sources to pay for implementing and maintaining the project. For CDBG-NDR funded projects it is important to ensure that CDBG-NDR is only used to fund that portion of the project that is CDBG-NDR eligible, meets a national objective and ties back to an eligible disaster event. Fiscal Project Lead also explores additional funding sources that can leverage CDBG-NDR funding and ensures there is sufficient funding for long term maintenance of the project.

Step 6: Assemble project team with technical and regional expertise. Project Manager and Fiscal Project Lead help identify and assemble necessary subrecipients, contractors, developers, community stakeholders and state agencies to implement CDBG-NDR project.



Step 7: Define outcome metrics. Project Manager, Fiscal Project Lead works with Regional Solutions to define the outcome metrics and how success is defined.

Step 8: Execute project. Project Manager, Fiscal Project Lead and Project Implementation Team execute project working in close coordination with local community.

Step 9: Measure outcomes. Project Manager and Fiscal Project Lead evaluates and measures outcomes against established outcome metrics.

Step 10: Maintain project long term. Upon completion, begin long term maintenance.

Step 11: Document project details and lessons learned in Learning Bank. So that the Oregon Rural Resilience Incubator can leverage and where appropriate borrow project elements for future resilience projects, project details and lessons learned are documented in a Learning Bank.

In anticipation of Phase 2 where we will outline specific CDBG-NDR projects, we have already started to complete these steps, considering specific needs that we want to address in each community and potential projects that can meet those needs.

CO-BENEFITS, IMPACTS, AND LOCAL AND REGIONAL INTERDEPENDENCIES: We are exploring projects that not only meet each community's unmet need but may offer co-benefits to protect infrastructure, transportation networks and housing from multiple types of hazards events. We will expand upon programs aimed at protecting critical transportation and supply lines from future storm and flood damage. Proposed projects in both communities will help address vulnerable LMI populations and the elderly as well as assist residents and small businesses by encouraging economic recovery.

In Reedsport we are considering levee improvements and flood protection measures that will offer co-benefits to upstream communities from flood hazards. A portion of the levee directly intersects Scholfield Creek Bridge on US Highway 101. As levee upgrades are made, seismic retrofit upgrades can also be made in compliance with State codes ensuring that this vital transportation network which carries water supplies to surrounding areas does not fail in the event of a major earthquake. Flood protection measures in Reedsport are likely to include relocation of extremely vulnerable residential homes to safer areas in the community. This protects these residents long term and will ensure that development never occurs in these high risk areas again. Levee accreditation and protection measures including a levee trail with a bike master plan are a key driver in the City's Main Street organizational plan for economic recovery of the downtown commercial corridor which will help small businesses.

In Brookings, Oregon plans to address water supply and sewer capacity issues, transportation networks, port needs and coastal bluff instability. The Oregon DOT-owned bridge that spans the Chetco River and connects the greater Brookings area via U.S. Highway 101 has a sewer main and has been evaluated to be in the highest seismic vulnerability

category. By completing a seismic upgrade to this bridge, Brookings and surrounding communities will be better protected against the risk of this transportation network and sewer system being compromised during a disaster event. There are also sewer and water capacity and contamination issues in Brookings which the State is considering fixing through upgrading the sewer system, increasing water storage capacity and a water desalination system. All potential projects can be completed within the 2 year timeframe and will protect the surrounding community from compromises to its water supply. The surrounding residents and small businesses will also be protected by stabilization of the coastal bluff. And finally, addressing the remaining unmet needs in the Port is likely to improve the economic prospects in the community by increasing the ability to fish in the area.

APPROACH TO RESILIENCE: NOW AND INTO THE FUTURE: Brookings and Reedsport have demonstrated need while also having local capacity to successfully carry out demonstration projects using CDBG-NDR. Reedsport and Brookings do not participate in the NFIP Community Rating System because there is no incentive to participate as there are so few policies in each community and most policies are preferred risk so there are no associated CRS discounts. However these communities are committed to resilience efforts and are interested in adopting the most cutting edge policies and approaches that can protect their most vulnerable populations from future disaster events. Through regional partnerships Oregon has also created a *Coastal Community Resilience Guide* which Brookings and Reedsport will use in the review and revision of various laws and decisions that can affect resilience.

Regional Solutions is already set up as a successful community engagement model to advance disaster resilience programs and projects. In fact the authority and role of Regional Solutions is codified in two Executive Orders from the Governor and two pieces of legislature. These acts require that state agency directors participate in Regional Solutions

project teams when requested; invest resources to provide technical assistance with regional communities; and directs relevant state agencies to consider regional priorities for community and economic development projects.

Oregon has made a long term commitment to resilience through the creation of a Resilience Plan; establishment of a Resilience Cabinet; on-going studies, analyses of the region's vulnerabilities; and implementation of recommendations to make the State resilient to disaster events. The *Oregon Resilience Plan* sets out to help Oregonians know what to expect from the state's infrastructure should disaster strike this year, and to propose the level of infrastructure reliability that a resilient state should provide. Most recently updated in February 2013, the *Oregon Resilience Plan* maps a path of policy and investment priorities for the next fifty years to project Oregon against the threats posed by a major earthquake along the Cascadia Subduction Zone. In 2010, Oregon adopted the Oregon Climate Change Adaptation Framework which provides a framework for the continued development of strategies and plans to address future climate conditions in the state and was developed in parallel with the Oregon Climate Assessment Report (OCAR) by the Oregon Climate Change Research Institute (OCCRI). Since then annual reports are made to Oregon's legislature outlining the State's progress towards meeting greenhouse gas emission reduction goals outlined in that plan.

Exhibit F: Factor 4 – Leverage and Outcomes

State of Oregon

ExhibitFLeverageOutcomes.pdf

Exhibit F: Factor 4 – Leverage and Outcomes

Outcomes: Measures taken to improve community resilience to hazard events like flooding and tsunami will also improve a community's resilience to other sources of coastal change. In the long-term these improvements will save money by reducing the amount of emergency and temporary repairs, as well as insurance and energy costs to residents. Oregon and the target areas have started to explore potential resilience projects which will largely consist of infrastructure solutions and relocation that may have a large upfront cost but will have significant cost savings and require minimal on-going maintenance. Resources to maintain these improvements will come from state and local agencies and community partners with no expected additional burden compared to current budgets. Through rigorous cost-benefit analysis and environmental analysis, OBDD will conduct capital planning to ensure that projects developed using CDBG-NDR can be done in an economically and environmentally sustainable manner. Potential infrastructure projects will ensure that future disasters do not disrupt critical infrastructure while also minimizing disaster recovery times and protecting areas of affordable housing and downtown economic corridors.

For example, upgrading the Reedsport Levee system which serves as a flood protection device for both riverine flooding and ocean flooding events and protects over 550 properties including State and local facilities, the community's commercial areas and the majority of the affordable housing in coastal Douglas County, will ensure that future disasters do not disrupt critical infrastructure, will minimize recovery times and protect areas affordable housing. In Brookings Oregon is considering upgrading the water system to increase water storage capacity and protect it from saltwater intrusion which in turn can bring economic investment and residents to the area. The State and the target area communities have also recently begun to explore environmental improvements that will both deal with the issues caused by severe winter storms and mitigate the harmful environmental impacts of nonpoint storm water

improvements. These “green” improvements would cost little to maintain with a potentially unlimited useful life.

The Oregon State Legislature formally adopted sustainable community objectives which Regional Solutions uses as a guide to leveraging investments and achieving multiple objectives on projects and which will be adopted for CDBG-NDR projects. These outcomes include: (1) A resilient economy that provides a diversity of good economic opportunities for all citizens; (2) Workers whose knowledge and skills are globally competitive and supported by life-long education; (3) Independent and productive citizens; (4) Youth who are fully supported by strong families and communities; (5) Vital and active downtowns and main streets; (6) Efficient development that saves infrastructure investments and natural resources; (7) Quality affordable housing that is available to those who need it; (8) Healthy urban and rural watersheds and species abundance and diversity; (9) Clean and sufficient water for human and natural use; and (10) Efficient use and reuse of resources, and the elimination of harmful toxins in the environment.

Additional project specific outcomes and measurements of success will be further identified in Phase II in close consultation with our academic partners. Some examples of specific metrics that may be measured depending on the type of project being carried out may include, but are not limited to: construction and improvements completed by a reasonable deadline; longevity of quality construction and improvements – with only expected maintenance needs; measurable reduction or elimination in saltwater intrusion into water supply; number of uses and homes relocated out of the tsunami inundation zone by a reasonable deadline; gallons of storm water diverted through green infrastructure; number of housing units preserved; number of commercial buildings preserved; and total dollars invested to retrofit buildings for resiliency.

Leverage Narrative: There are abundant resources that Oregon can draw from to assist with project implementation and maintenance. Oregon has a model for conducting a resilience assessment of coastal communities and an established network of people, organizations and communities that can improve resilience to coastal hazards. OPDR has also published a guide to support the implementation of measures to improve community resilience to a Cascadia subduction zone earthquake and the resultant tsunami.

The State of Oregon also has extensive experience leveraging funding from a variety of sources. In November 2014, Regional Solutions published a Co-Investment Report detailing the investments that have been made to date to make Regional Solutions projects happen. The various State agencies involved have invested \$142 million which was leveraged with \$499 million in county, municipal, private, philanthropic, and other funds. Regional Solutions successful track record of leveraging funding sources to implement local projects will be brought applied to CDBG-NDR funded projects. As part of the work of Regional Solutions, state agencies have invested to integrate and align permitting requirements, remove barriers to business retention and expansion and act quickly to respond to issues as they arise. Working collaboratively across agencies and with local stakeholders is the norm in Oregon and will enable CDBG-NDR projects to get off the ground quickly. For example, for rural communities Regional Solutions has supported the development of work force housing and provided technical assistance to upgrade water and wastewater treatment systems.

Oregon has secured the partnership and leverage of 55 agencies, organizations, and businesses that have committed to addressing the implementation and maintenance aspects of the proposed improvements. If one of our proposed projects consists of improvements to the levee system, Reedsport has committed to the long term maintenance and upkeep as it has done for the past 50 years. Reedsport and ODOT also have an intergovernmental agreement

in place to share the responsibility of maintenance for one of its bridges. Networking the resources of both agencies will ensure proper maintenance.

In Brookings, Portland State University has committed to research and assess the financial impacts, management opportunities and organizational implications of two hypothetical annexations of service areas within the Brookings Urban Growth Area which will serve as a starting point for further conversations regarding government configurations and service delivery. Civil West Engineering Services, Inc. has also committed to evaluate water supply alternatives for Brookings and make recommendations for a redundant water supply plan.

In addition, the implementation of these resilience projects is likely to help lower insurance costs. Damage as a result of flooding or a major tsunami event will be greatly minimized through the improvement of the target areas infrastructure, thereby lowering insurance costs. Many of the homes in both target areas do not have flood insurance. The State is working with the target areas to explore how disaster resilience projects can help businesses and residential property owners better access and afford insurance.

As proposed in Exhibit E, the State of Oregon is interested in pursuing CDBG-NDR projects that can be replicated in other coastal communities. For example, if Oregon decides to make improvements to Reedsport's levee system, there are seven other levee systems in Oregon alone, ranging up to 23 miles in length that could benefit from the model proposed and implemented by Reedsport. We are also exploring projects that might make the hospitals and transportation networks in both communities more resilient. Both of these types of projects will ultimately serve and benefit the region beyond the target area.

Leverage Commitments: A number of state, private and academic organizations have committed financial assistance to the State of Oregon for resilience planning and project

activities related to this CDBG-NDR grant application. The total value of these commitments is \$321,730 and each are outlined in more detail below.

- The City of Reedsport has committed to providing \$100,000 to Anderson Perry Engineering, Inc. for engineering evaluation and assessment of improvements to the levee system.
- The City of Reedsport has a commitment from the Urban Renewal Agency to provide \$50,000 for necessary levee improvements with a statement that they will commit additional resources where necessary.
- The City of Brookings has committed \$48,000 in funds to Portland State University for the following activities: \$4,600 for research and investigation into annexation law and consultations, service area identification and definition, and population projections; \$14,000 for service component identification and cost analysis, determining per citizen rates for identified programs, assessing service standards, and assessing CIP infrastructure improvements to attain City standards; \$11,800 for developing alternative scenarios including different annexation plans; \$4,900 for identifying and computing UGA assessed values; \$9,250 for preparing and presenting a report of these findings; and \$3,450 for materials and supplies.
- The City of Brookings has committed \$34,730 in funds to Civil West Engineering Services, Inc. to evaluate water supply alternatives for the City of Brookings—including a range of implementation plans, water rights issues, development costs, water availability, and more, and will conclude with a recommended redundant water supply plan.
- The State of Oregon contributed a combined \$89,000 to search for eligible communities, work with potential eligible communities to review and develop threshold data, develop a statewide resilience vision and viable process, and prepare and write a Phase 1

application. These amounts came from various state agencies including: \$6,000 from the Governor's Office Regional Solutions; \$35,000 from Oregon's Department of Administrative Services (DAS); \$25,000 from Oregon's Business Development Department (OBDD); \$10,000 from Oregon Department of Transportation (ODOT); \$3,000 from Oregon Housing and Community Services (OHCS); and \$10,000 from Oregon Office of Emergency Management (OEM).

Exhibit G: Factor 5 – Long-Term Commitment

State of Oregon

ExhibitGLongTermCommitment.pdf

Exhibit G: Factor 5 – Long-Term Commitment: Oregon is a national leader in climate change adaptation, land use planning and disaster resilience. On March 10, the Governor’s Office announced their support for a proposed bill to create a State Resilience Officer in the Governor’s office to direct, coordinate and oversee seismic safety and resilience planning and preparation by state agencies. The State has committed to ambitious greenhouse gas reduction goals now through 2050 and the Oregon Global Warming Commission compiles a report to the legislature each year outlining the State’s progress towards meeting these goals. In 2010 Oregon met its greenhouse gas reduction goal arresting the growth of greenhouse gas emissions and establishing a downward emissions trajectory in which emission levels are expected to be reduced into the future. As of February 2015, the State of Oregon is one of only 12 State Enhanced Hazard Mitigation Plans (SEHMP) which incorporates consideration of long-term threats imposed by climate change.

Oregon’s Legislative Assembly is currently in the midst of considering multiple pieces of legislation which put into action recommendations outlined in *The Oregon Resilience Plan* and *Implementation of Oregon Resilience Plan* reports. For example, there is currently proposed legislation to require the State’s Land Conservation and Development Commission to provide guidance to local governments regarding adaptive planning to reduce risk to people and property due to development in hazard areas. The State of Oregon is also currently considering multiple legislative proposals that would ensure that investments are made to implement seismic upgrades and improvements to public buildings and transportation infrastructure. Based on these long term commitments it is expected that our target areas will see improved outcomes for the local economy (increase in the number of available jobs) and housing and commercial buildings will be better protected from future disaster events (more resilient housing and commercial stock).

Exhibit G: Factor 5 – Long-Term Commitment

State of Oregon

ExhibitGLongTermCommitment.pdf

Exhibit G: Factor 5 – Long-Term Commitment: Oregon is a national leader in climate change adaptation, land use planning and disaster resilience. On March 10, the Governor’s Office announced their support for a proposed bill to create a State Resilience Officer in the Governor’s office to direct, coordinate and oversee seismic safety and resilience planning and preparation by state agencies. The State has committed to ambitious greenhouse gas reduction goals now through 2050 and the Oregon Global Warming Commission compiles a report to the legislature each year outlining the State’s progress towards meeting these goals. In 2010 Oregon met its greenhouse gas reduction goal arresting the growth of greenhouse gas emissions and establishing a downward emissions trajectory in which emission levels are expected to be reduced into the future. As of February 2015, the State of Oregon is one of only 12 State Enhanced Hazard Mitigation Plans (SEHMP) which incorporates consideration of long-term threats imposed by climate change.

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Selected Attachments

Attachment A: Partner Documentation

Attachment E: Maps, Drawings, Data Sources

Attachment A: Partner Documentation

State of Oregon

AttachmentAPartnerDocumentation.pdf

Attachment A: Partner Documentation

- American Red Cross Cascades Region
- Association of Oregon Counties
- CAL/OR Insurance Specialists, Inc.
- CCD Business Development Corporation
- Central Lincoln People's Utility District
- City of Brookings
- City of Crescent
- City of Reedsport – City Council
- City of Reedsport – City Manager
- Citycounty Insurance Service (CIS)
- Clean Energy Works
- Coos-Curry Electric Cooperative (CCEC)
- Coos-Curry Housing Authority
- Curry Community Health
- Curry County
- Curry Health Network
- Del Norte County
- Douglas County
- Douglas County Sheriff's Office
- Fullhart Insurance Agency
- Governor's Resilience Cabinet
- Guy Nordenson of Guy Nordenson and Associates
- Housing Authority of Douglas County
- Institute for Building Technology and Safety (IBTS)

- League of Oregon Cities
- Lower Umpqua Hospital
- Neighborworks Umpqua
- Northwest Real Estate Capital Corp.
- Oregon Climate Change Research Institute (OCCRI)
- Oregon Coast Community Action
- Oregon Coastal Zone Management Association (OCZMA) – with Brookings, Reedsport, State
- Oregon Department of Environmental Quality
- Oregon Department of Forestry
- Oregon Department of Geology and Mineral Industries
- Oregon Department of Transportation (ODOT)
- Oregon Partnership for Disaster Resilience (OPDR) - University of Oregon
- Oregon Sea Grant
- Oregon Seismic Safety Policy Advisory Commission (OSSPAC)
- Oregon State Historic Preservation Office
- Oregon State University
- Port of Brookings Harbor
- Port of Umpqua
- Rio Tinto-US Borax
- Rogue Credit Union
- South Coast and Umpqua Region Regional Solutions Advisory Committee
- South Coast and Umpqua Region Regional Solutions Team (RST)
- South Coast Development Council
- Southern Oregon coastal legislatures

- State Interagency Hazard Mitigation Team (State IHMT)
- Umpqua Bank
- Umpqua Soil and Water Conservation District
- United States Representative Suzanne Bonamici
- University of Southern California – Sonny Astani Dept of Civil and Environmental Engineering
- Virginia Tech – Advance Research Institute
- West Coast Infrastructure Exchange (WCX)
- Willdan Homeland Solutions – with Brookings



Cascades Region
3131 N. Vancouver Ave.
Portland, OR 97227
503-284-1243
www.redcross.org/cascades

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the intent of the American Red Cross Cascades Region to collaborate, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The American Red Cross Cascades Region services communities across Oregon and Southwest Washington. The region is part of a nationwide network with locations across the nation. With 1,800 volunteers and more than 50 staff members, the Cascades Region of the American Red Cross is a leader in providing relief to victims of single-family and community emergencies; national and international disasters; and helping people to prevent, prepare for and respond to disasters.

In the event funds are awarded through the CDBG-NDR program, the American Red Cross will partner with Oregon coast communities to connect community members to a variety of American Red Cross preparedness programs.

It is understood that this letter is only an expression of our intent to identify programs in which the American Red Cross can be a partner should CDBG-NDR funds be awarded. The breadth and depth of the American Red Cross involvement is dependent on the details of the programs being implemented.

Sincerely,

A handwritten signature in cursive script that reads "Cara Sloman".

Cara Sloman
Regional Disaster Program Officer



February 23, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047

Re: Intent to Participate

Dear Ms. Moawad,

This letter is to confirm the mutual intent of both the State of Oregon and the Association of Oregon Counties (AOC) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

For more than a century the AOC has been dedicated to improving the ability of county government to serve Oregonians. AOC gathers information about current trends, issues and challenges facing Oregon counties and shares that information in a timely manner. AOC also provides county officials with unique opportunities to interact with their colleagues from across the state in regional and statewide gatherings.

AOC will, in partnership with the Governor's Office and other state agencies, assist in engaging local governments (particularly at the county level) when services are being delivered. AOC is in a unique position to communicate directly with county commissioners and county agency directors. Once engaged, AOC will be able to assist in facilitating discussions about projects that will best serve a particular county and coordinate regional approaches so that counties with a similar challenge are working in concert with one another on a sustainable resilience program.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

A handwritten signature in black ink, appearing to read "Gary Thompson".

Gary Thompson, Sherman County Judge
President, Association of Oregon Counties

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

1201 Court Street NE, Suite 300 | Salem, Oregon 97301-4110 | 503.585.8351 | www.aocweb.org

CAL/OR Insurance Specialists, Inc.

March 10, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, OR 97301-4047
503-986-6550
Heidi.Moawad@oregon.gov

Dear Ms. Moawad,

CAL/OR Insurance Specialists, Inc. is the Insurance Agent for the City of Brookings as well as the Port District, County, and many Special Districts in and around Brookings.

We have considered ourselves a partner with these entities and have assisted them throughout the years.

We also provide insurance for a large number of the Community and only a very small percentage of them have flood and earthquake coverage. Premiums for both coverages have increased more than 30% in the past couple of years on the average, and some clients who are in a higher flood zone have experienced a 100% increase for the flood premiums. With the higher unemployment and lower wage jobs in our area, few can afford the premium.

It is very important to partner and assist with the City of Brookings to improve the infrastructure along the coast in ways to diminish and eliminate the risk caused by the storms, tidal surges and flooding. We would like to help with protection of our citizens in our area from the Disasters that are predicted. This is vital to our community!

Sincerely,



Deborah E Krambeal
President

Street: 16389 Highway 101 S., Brookings, OR 97415
Mailing: P.O. Box 2725, Harbor, OR 97415
Telephone: 541-469-3510 or 1-800-762-8589
Fax: 541-469-2097
Website: www.calor-insurance.com





522 SE Washington Ave. Suite 111A
Roseburg, Or. 97470

(800) 452-6010 Toll Free
(541) 672-6728 Phone
(541) 672-7011 Fax

CCD Business Development Corporation
522 SE Washington Ave., Ste. 111A
Roseburg OR 97471
e.ophus@ccdbusiness.com

February 24, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and CCD Business Development Corporation (CCD) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

CCD is a private non-profit corporation serving as the Economic Development District for representative for Coos, Curry and Douglas County regions. We provide community and economic development assistance in our region through project development, grant and project administration, grant and loan application writing, meeting development and facilitation and many in-house relending programs. We are also an SBA Certified Development Company providing financing assistance to all counties in the State of Oregon through the SBA 504 program. We have been in existence since 1971

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Eileen Ophus, Executive Director/CEO
CCD Business Development Corporation

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

Mission Statement

To create a climate that encourages economic development that will retain existing jobs, create new jobs, diversify local economies, support existing industry and enhance the quality of life for the regions residents, as well as providing an atmosphere for personal growth for the employees.

Serving Portions of Coos, Douglas, Lane, and Lincoln counties on Oregon's Central Coast



2129 N. Coast Hwy • P.O. Box 1126 • Newport, Oregon 97365-0090 • 541-265-3211 • clpud.org

February 17, 2005

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and Central Lincoln People's Utility District to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The Central Lincoln People's Utility District is a community-owned electric utility that has served Oregon's central coast communities, including Reedsport, since 1943. The 130-employee utility serves 57,000 customers and understands the importance of providing reliable power. Central Lincoln's service territory presents a unique set of challenges, as it covers a 120-mile stretch of coastline with undulating terrain, dense vegetation, corrosive salt air and frequent, severe weather events. These conditions necessitate robust structures capable of withstanding winds over 100 miles per hour and corrosion-resistant materials for normal daily operations.

To prepare for a Cascadia type event, the utility would need to build redundancy and resiliency into its infrastructure if it is to be in a position to help communities recover after a disaster. Central Lincoln is committed to disaster preparedness efforts within our coastal communities and has begun training all employees in the national Incident Command Structure system in order to be better prepared in case of a major event.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Debra Smith, General Manager
Central Lincoln People's Utility District

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Weang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



City of Brookings

898 Elk Drive, Brookings, OR 97415
(541) 469-1101 Fax (541) 469-3650 TTL (800) 735-1232
gmilliman@brookings.or.us

GARY MILLIMAN

City Manager

Credentialed City Manager
International City Management Association

ICMA Career Excellence Award 2012
ICMA Management Innovation Award 1979

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047

February 6, 2015

Dear Ms. Moawad,

This letter is to confirm the mutual intent of both the State of Oregon and the City of Brookings to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The City of Brookings is a municipal government providing a full range of services to a community of 6,535 residents. Services provided by the City include police, fire, water, sewer, storm drains, wastewater treatment, street maintenance, parks, planning and building safety. The City also provides wastewater treatment services for the unincorporated community of Harbor, and provides mutual aid services to Curry County and special districts providing services in that unincorporated community.

The City of Brookings will be a subrecipient of funds to meet unmet needs occurring from the 2011 tsunami disaster and 2012 storm/flood disaster. The City will also work with the State and the Port of Brookings Harbor in the development of a Master Plan of Development for the Port which will include measures to improve resiliency from potential disaster risks and economic resilience of the Brookings Harbor community.

It is understood that this is letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Respectfully,

Cc: Alice Wiewel, DAS CFO, State Architect
Yumei Wang, DAS CFO, Resilience Engineer



March 16, 2015

Heidi Moawad
Office of the Governor
Public Safety and Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047

Re: Collaboration with City of Brookings and State of Oregon

Dear Ms. Moawad,

The purpose of this letter is to express our support for the State of Oregon and the City of Brookings in their efforts to secure funding through the National Disaster Resiliency Competition to pursue demonstration resiliency projects that would be of benefit to other tsunami-risk communities along the Pacific Coast, such as Crescent City, California.

As you know, both Brookings, Oregon, and Crescent City, California, experienced significant impacts from the March 2011 tsunami that was generated by the magnitude 9.0 Tohoku earthquake offshore of the east coast of Japan. The harbor at Crescent City experienced approximately \$38 million in damage in this Presidential-declared disaster event.

Crescent City was also heavily damaged in the tsunami of 1964 following the great Alaska earthquake. Some 30 blocks of the City's commercial district was destroyed and 11 people lost their lives as a 21-foot tsunami tidal surge slammed into the community.

It is our understanding that the City of Brookings will pursue NDRC funding for projects such as the development of alternative/resilient sources of water supply and alternative/resilient energy production facilities, as well as developing community resiliency economic and citizen preparedness programs.

While located in separate states, the Cities of Crescent City and Brookings face common disaster risks and enjoy a close working relationship in a variety of areas, including disaster response and transportation system development. For example, both cities are members of the Border Coast Regional Airport Authority which manages the regional airport here in Crescent City.

There is a special kinship between the two communities which have much in common and we are certain that Crescent City would benefit from disaster and economic resilient strategies and programs emanating from NDRC funded programs in our sister city to the north. We would certainly welcome opportunities to partner with the City of Brookings in these efforts and benefit from their experience in pursuing NDRC projects.

Sincerely,



Ron Gastineau
Mayor, Crescent City

RESOLUTION 2015-005

COPY

A RESOLUTION OF THE CITY OF REEDSPORT SUPPORTING THE STATE'S APPLICATION FOR NDRC HUD GRANT FUNDING ON BEHALF OF THE CITY OF REEDSPORT IN ORDER TO ASSIST THE CITY TO ADDRESS THE UNMET NEEDS RESULTING FROM STATE DECLARED DISASTERS OF 2011 & 2012

WHEREAS, the State of Oregon, through the Office of Business Development Department, is submitting an application for the U.S. Department of Housing and Urban Development's (HUD) National Disaster Resilience Competition (NDRC); and

WHEREAS, this two part competition provides funding for eligible communities and counties that have experienced Presidential-declared disasters from 2011-2013, with the goal of recovery and resiliency for the future; and

WHEREAS, the City of Reedsport has suffered long term economic and physical damage as a result of two major Presidentially-declared disasters (DR-1956 and DR-4055), both of which are qualifying disasters and both of which resulted in localized flooding behind the City's levee system; and

WHEREAS, since the flood events of 2011 and 2012, the City has struggled to maintain businesses in the impacted area; repetitive flooding and limited financial resources has deterred building owners from making proper repairs and significantly impacted downtown property values as the owners and real estate professionals must disclose that the buildings are subject to periodic flooding; and

WHEREAS, HUD NDRC funds will enable the City to make the repairs necessary to address these unmet needs and prevent future disasters enabling regional economic recovery and growth; and

WHEREAS, the City of Reedsport networked partnerships with governmental and other agencies providing the capacity to properly utilize these funds.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF REEDSPORT AS FOLLOWS:

That the City of Reedsport supports the State of Oregon application for NDRC HUD grant funds on behalf of the City.

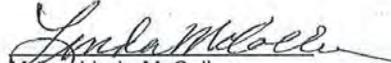
CITY OF REEDSPORT

RESOLUTION 2015-005

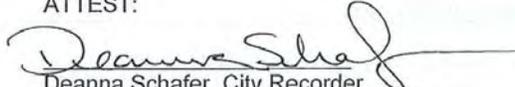
PASSED AND MADE EFFECTIVE BY THE CITY COUNCIL this 2nd day of March, 2015, by the following vote:

AYES 6

NAYS 0


Mayor Linda McCollum

ATTEST:


Deanna Schafer, City Recorder



CITY of REEDSPORT
OFFICE OF THE CITY MANAGER
451 Winchester Avenue
Reedsport, OR 97467-1597
Phone (541) 271-3603
Fax (541) 271-2809

February 9, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

Dear Heidi Moawad

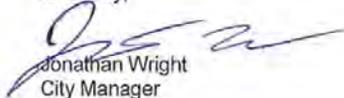
This letter is to confirm the mutual intent of both the State of Oregon and the City of Reedsport to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The City of Reedsport is a municipal government providing a full range of services to a community of 4,150 residents. Services provided by the City include police, fire, water, sewer, stormwater, wastewater treatment, street maintenance, parks, planning and building. The City also provides wastewater treatment services for the unincorporated community of Gardiner and water service to both Gardiner and the unincorporated community of Winchester Bay and provides mutual aid service to Douglas County and both unincorporated communities.

The City of Reedsport will be a subrecipient of funds to meet unmet needs occurring from a 2011 and 2012 storm/flood disasters. While these funds will be primarily spent to upgrade infrastructure to increase resilience to future natural disasters, the City will also use the designated funds to work on a mitigation plan that will ensure the future safety of Reedsport residents from an array of natural disasters and to progressively address climate change.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Sincerely,


Jonathan Wright
City Manager

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumci.Q.Wang@oregon.gov)



citycounty insurance services
www.cisoregon.org

March 16, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047

RE: Partnership Intent

Dear Ms. Moawad,

CIS (Citycounty Insurance Services) is pleased to express its intent to partner with our members, the Cities of Brookings and Reedsport, as they seek to create greater resilience in the event of a disaster. This effort will benefit not only the two cities and their citizens, but virtually all Oregon communities.

CIS, created in 1981 by an intergovernmental agreement between the League of Oregon Cities and Association of Oregon Counties, already considers itself a partner to Brookings and Reedsport. Our 300+ members across the state pool their risk and together fund their potential losses. As the provider of property and liability coverage for Brookings and Reedsport, we have a direct interest in the cities' ability to mitigate the effects of a disaster, and to continue to serve their citizens.

In addition to covering losses, we currently offer our members support for emergency preparedness activities, including continuity of operations planning, and services to continue municipal operations in a disaster. These are examples of programs in which CIS could be a partner, should National Disaster Resilience funds be awarded.

We look forward to continued conversation about the program.

Sincerely,

Lynn McNamara
Executive Director

MAIN OFFICE • 1212 Court Street NE, Salem, OR 97301 • Phone 503-763-3800 or 800-922-2684 • Fax 503-763-3900
CLAIMS OFFICE • PO Box 1469, Lake Oswego, OR 97035 • Phone 503-763-3875 or 800-922-2684 ext 3875 • Fax 503-763-3901





Clean Energy Works
1733 NE 7th
Portland, OR 97212
derek.smith@cewo.org

February 27, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and Clean Energy Works to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

Clean Energy Works is a non-profit organization that provides services to help homes and communities become more resilient. We are the largest provider of home performance services in the Northwest. We assess and upgrade single-family homes for energy efficiency, renewable energy, earthquake preparedness and air quality. As a public-private partnership, we deploy a variety of public funds (DOE, FEMA, State, local) to align policy objectives and incentives directed toward homes.

We have assessed more than 15,000 homes throughout Oregon and upgraded more than 4000 homes. We have a strong network of contractors, lenders, utilities and local governments who support our work.

Clean Energy Works proposes to facilitate assessments, contracting and financing of seismic strengthening, flood mitigation and other relevant services directed toward the residential building stock, and possibly the small commercial building stock.

1733 NE 7th Ave. Portland OR 97214 | 855.870.0049 | cewo.org

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.



Clean Energy Works
Derek Smith
CEO

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



Your Touchstone Energy® Cooperative 
The power of human connections®

January 28, 2015

Mr. Gary Milliman
City Manager
City of Brookings
898 Elk Drive
Brookings, OR 97415

Dear Gary:

Coos-Curry Electric Cooperative (CCEC) is very supportive of the City of Brookings and the State of Oregon in their efforts to secure funding under the National Disaster Resilience Competition (NDRC) to make our state and its local communities more resilient to the impacts of disaster and to strengthen economic resilience.

CCEC provides electric energy to our members in Curry, Coos, and Douglas Counties including the City of Brookings, Oregon. Electric service being reliable and quickly restored to our communities is vital for the safety of the citizens that live in our service area. Our service area has over 100 miles of Pacific Ocean exposure starting at the California border and going within a couple miles of Coos Bay/North Bend, OR. We have suffered many high wind storms (hurricane force) over the years and have sustained substantial damage during those storms. We have had members without electricity for up to a couple of weeks in the worse cases. Approximately 31% of our distribution lines are buried, and every year we are converting overhead lines to underground. To avoid damage to the electrical distribution system from these high winds and tsunami events, having an underground system is vital. CCEC has a comprehensive disaster plan, and our dispatch center for all 3 counties is located at our office in the City of Brookings. CCEC has a state of the art radio system that has the capability of transferring our phone system over to our radio system, this would connect our Brookings, Gold Beach, Port Orford, and Coquille offices together. We also have a ham radio system in our dispatch center and plan to install one in our backup dispatch center in Port Orford in case we lose our Brookings office during a disaster.

We have reviewed the NDRC Fact Sheet and have consulted with the City of Brookings concerning the possible resiliency measures that may be employed under the NDRC program.

Mailing Address for all Coos-Curry Electric Co-op offices: P.O. Box 1268, Port Orford OR 97465-1268

Port Orford Office: 43050 Hwy 101 Port Orford OR 97465 · Phone: 541-332-3931 Fax: 541-332-3501

Brookings Office: 815 Railroad St Brookings OR 97415 · Phone: 541-469-2103 Fax: 541-469-3193

Gold Beach Office: 29439 Ellensburg Gold Beach OR 97444 · Phone: 541-247-6638 Fax: 541-247-6630

Coquille Office: 220 S Mill Ave Coquille OR 97423 · Phone: 541-396-3118 Fax: 541-396-3119

www.ccec.coop

After Hours Outage Number 866-352-9044

Mr. Gary Milliman
January 28, 2015

Page 2

Specifically, we are interested in partnering with the City of Brookings, the Port of Brookings Harbor, and the State of Oregon to develop resiliency approaches, programs, and projects which would address the following needs of the community:

- Convert overhead power lines to underground, which would provide a high degree of reliability during many disaster events.
- Emergency medical care, specifically the need for an Emergency Room at the Brookings Clinic.
- Reliable potable water supply, specifically to address threats to existing sources of supply from sea level change and the need for increased storage capacity.
- Seismic-resilient transportation systems, including the retrofit of the Chetco River Bridge which serves to link the Harbor community to essential services located in Brookings.
- Resiliency-oriented economic development planning for the City, the Port, and the region, including a resiliency-oriented master plan of development for the Port.
- Community services for low and moderate income residents.
- The shortage of affordable housing.
- Measures to address the area's chronically high unemployment, which is currently 185 % of the national rate.
- Family and neighborhood preparedness.
- Infrastructure improvements, such as improved drainage facilities and replacement of sewer lines to avoid environmental damage from storm events.

We recognize that the Brookings and South Coast areas have an exposure to a number of natural disaster and socioeconomic risks that could adversely affect our communities. CCEC has been participating in collaborative efforts with other community stakeholders to address these risks, and also recognizes that additional resources are needed.

Sincerely,



Roger Meader
General Manager/CEO



NORTH BEND CITY / COOS-CURRY HOUSING AUTHORITIES

1700 MONROE STREET NORTH BEND OR 97459
TELEPHONE: 541-756-4111 TOLL FREE: 1-877-897-9349
FAX: 541-756-4990 Oregon Video Relay Service: 1-866-327-8877
Managing Agent – Woodland Apartments Preservation Inc / Powers Housing Development Inc

February 9, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and the Coos-Curry Housing Authority to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The Coos-Curry Housing Authority provides rental assistance for seniors, working families, people with disabilities and others who face life challenges. We acquire and preserve existing housing and construct quality housing developments that make families and communities proud.

We believe in local, community-based solutions because each neighborhood is unique. We make the most of our dollars by partnering with others, such as Head Start and workforce agencies, to improve communities and align resources for more housing opportunities.

We build affordable housing using a unique blend of local, state and federal financing tools. We create partnerships with private developers, local governments, nonprofits and local banks. Our ability to enter into public-private agreements brings housing back within reach for all Oregonians.

The City Coos-Curry Housing Authority would welcome the opportunity to partner with the State of Oregon and communities within our operating footprint...including the community of Brockings Harbor...to develop and deliver programs to improve the resiliency of the housing stock within those communities.

Revised 9-09



It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Sincerely,



Ned Berman
Executive Director
Cocs-Curry Housing Authority

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

Revised 9-09





94235 Moore Street
Suite 121
Gold Beach, OR 97444

(541) 247-3300 FAX: (541) 247-5601

Curry County HERT Mission statement - To improve the capability of the health system and emergency responders in the Southwestern Oregon Region to respond to natural and manmade disasters, and other emergencies, through sharing information, training, exercises, and other collaborative endeavors.

Curry HERT Vision statement - A regional health system working together effectively during emergencies

Alice Wiewel
State Architect
State of Oregon

The purpose of this letter is to support the City of Brookings and the State of Oregon in their efforts to secure funding under the National Disaster Resilience Competition (NDRC) to make our state and its local communities more resilient to the impacts of disaster and to strengthen economic resilience.

We have reviewed the NDRC Fact Sheet and have consulted with the City of Brookings concerning the possible resiliency measures that may be employed under the NDRC program.

Specifically, we are interested in partnering with the City of Brookings, the Port of Brookings Harbor and the State of Oregon to develop resiliency approaches, programs and projects which would address the following needs of the community:

- Emergency medical care, specifically the need for an Emergency Room at the Brookings Clinic.
- Reliable potable water supply, specifically to address threats to existing sources of supply from sea level change and the need for increased storage capacity.
- Seismic-resilient transportation systems, including the retrofit of the Chetco River Bridge which serves to link the Harbor community to essential services located in Brookings.
- Resiliency-oriented economic development planning for the City, the Port and the region, including a resiliency-oriented master plan of development for the Port.
- Community services for low and moderate income residents.
- The shortage of affordable housing.
- Measures to address the area's chronically high unemployment, which is currently 18.5 per cent of the national rate.
- Family and neighborhood preparedness.
-



94235 Moore Street
Suite 121
Gold Beach, OR 97444
(541) 247-3300 FAX: (541) 247-5601

- Infrastructure improvements, such as improved drainage facilities and replacement of sewer lines to avoid environmental damage from storm events.

We recognize that the Brookings and Harbor area has an exposure to a number of natural disaster and socioeconomic risks that could adversely affect our community. Curry Community Health's Curry County Health Emergency Response Team has been participating in collaborative efforts with other community stakeholders to address these risks, and also recognizes that additional resources are needed.

We thank you for your consideration of this request to further efforts to increase resiliency for our community.

Sincerely,

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

Ken Dukek, CEO

Curry Community Health

94235 Moore St., Ste 121

Gold Beach, OR 97444

541-247-3300

www.currych.org

<https://www.facebook.com/currycommunityhealth>



**Curry County
Director of Administration and Economic Development**

94235 Moore Street/Suite #122
Gold Beach, OR 97444
Ph. 541-247-3253

February 3, 2015

Gary Milliman, City Manager
City of Brookings
898 Elk Drive
Brookings, OR 97415

Re: NDRC

Mr. Milliman,

Curry County, Oregon, is a beautiful area nestled between the Pacific Ocean and the Siskiyou Mountains. What appears to be a serene beautiful coastal area is in reality a community of 20,000 waiting silently for the destruction anticipated in the earthquake and resulting tsunami that is reportedly past due. Emergency professionals warn us that 50% of our residents will not survive the natural disaster. Making our communities resilient to such impending devastation is critical to our government operations and citizenry.

The City of Brookings, Curry County, is proactively addressing dangers throughout their city and trying to prepare their residents for natural disasters. Curry County too has begun the process of preparing for disaster, with a strong focus on the City of Brookings area. My Department in particular, along with other county departments, have begun the discussions to ensure our local airport is equipped for government back up services and emergency response accommodations. In partnership with the need to enhance landings and approaches for safe flights into and out of the Brookings Airport, I support the need for enhancements in the City, such as an emergency room, so we can respond cohesively to our people's needs.

Additionally, the County has been working with the City to be able to provide safe public water; road improvements that not only withstand natural disasters, but climate change as well; safe housing—and housing available to all income levels; as well as many other opportunities to prepare our people and governments to become resilient.

Emergency response can't happen in a vacuum. It is critical we have intergovernmental cooperation and support so city operations and county resiliency measures work together. With restricted budgets, and the County facing a fiscal crisis, any help to make our communities resilient is warranted. Please accept this letter as my support for the City and the State of Oregon to secure funding under the National Resilience Competition to help install the necessary infrastructure, and education, for our disaster resilience.

Sincerely,

Julie A. Schmelzer
Director of Administration



Curry General Hospital
94220 4th Street
Gold Beach, OR 97444
541.247.3000

Curry Medical Center
500 5th Street
Brookings, OR 97415
541.412.2000

Curry Family Medical
525 Madrona Street
Port Orford, OR 97465
541.332.3661

Curry Medical Practice
94220 4th Street
Gold Beach, OR 97444
541.247.3155

Rush Surgery Center
648 Chetco Ave.
P.O. Box 8021
Brookings, OR 97415
541.813.1835

Brookings Psychiatry
603 Hemlock St., Ste. 2-D
Brookings, OR 97415
541.412.2094

**Shore Pines
Assisted Living**
93975 Ocean Way
Gold Beach, OR 97444
541.247.0333

MISSION
*To provide healthcare of
the highest quality with
genuine caring and
compassion.*

VISION
*That our doctors, staff and
facilities will be recognized
by our patients and
potential patients as the
preferred health care
system because of our
quality, ease of access and
range of services.*

February 3, 2015

Alice Wiewel
State Architect
State of Oregon
155 Cottage St., NE U10
Salem, Oregon 97301-3965

Dear Ms. Wiewel,

Please consider this a letter of support for the City of Brookings and the State of Oregon in their efforts to secure funding under the National Disaster Resilience Competition (NDRC) to make our State and its local communities more resilient to the impacts of disaster and to strengthen economic resilience.

We have reviewed the NDRC fact sheet and have consulted with the City of Brookings concerning the possible resiliency measures which may be employed under the NDRC program.

Curry Health Network has been partnering with the City of Brookings to provide needed healthcare and economic development for many years. In 2011, Curry Health Network made a major investment in the City of Brookings through the development of a 34,500 square foot medical office building. We continue to work with the City of Brookings on the development of an emergency room which would be located in the Curry Medical Center office building.

We are very interested in partnering with the City of Brookings, the Port of Brookings-Harbor and the State of Oregon to develop resiliency approaches, programs and projects which would address the following needs of the community:

- Emergency medical care, specifically the need for an emergency room in Brookings at the Curry Medical Center clinic building.
- Reliable potable water supply, specifically to address the threats to existing sources of supply from sea level change and the need for increased storage capacity.

PAGE 2
FEBRUARY 3, 2015

- Siesmic-resilient transportation systems, including the retrofit of the Chetco River Bridge which serves to link the Harbor community to essential services located in Brookings.
- Resiliency-oriented economic development planning for the City, the Port and the region, including a resiliency-oriented master plan of development for the Port.
- Community services for low and moderate income residents.
- The shortage of affordable housing.
- Measures to address the area's chronically high unemployment, which is currently 185 percent of the national rate.
- Family and neighborhood preparedness.
- Infrastructure improvements, such as improved drainage facilities and replacement of sewer lines to avoid environmental damage from storm events.

We recognize that Brookings and the Harbor area have an exposure to a number of natural disaster and socioeconomic risks that could adversely affect our community. Curry Health Network participates in collaborative efforts with other community stakeholders to address these risks, and recognizes that additional resources are needed. Curry Health Network will do what it can to support the partnership of the City of Brookings and the State of Oregon in their effort to secure funding under the National Disaster Resilience Competition.

Sincerely yours,



Wayne Hellerstedt, MBA/FACHE
Chief Executive Officer



Phone
(707) 464-7214

Fax
(707) 464-1165

**COUNTY OF DEL NORTE
COUNTY ADMINISTRATIVE OFFICE**

981 "H" Street, Suite 210
Crescent City, California 95531

Heidi Moawad
Office of the Governor
Public Safety and Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047

03/12/2015

Re: Collaboration with City of Brookings and State of Oregon

Dear Ms. Moawad,

The County of Del Norte, California, and the City of Brookings, Oregon, have a history of successful working partnerships in addressing the economic development and public safety needs of our region. We have also partnered with the State of Oregon in addressing critical transportation needs. We look forward to continuing this partnership as Oregon and Brookings pursue funding through the National Disaster Resiliency Competition.

Separated only by a State Line, Del Norte County and the City of Brookings share much in common. Over 10 years ago we organized, together with other cross-border agencies, the America's Wild Rivers Coast tourism promotion partnership. We have formed the Border Coast Regional Airport Authority (BCRAA) to jointly manage the Del Norte County Airport. We have worked to jointly prepare for and respond to emergencies. Our public safety agencies train together, and provide mutual aid.

Most recently the State of Oregon, working through the City of Brookings, provided \$400,000 in grant funding to the BCRAA to help fund an \$8.0 million project to improve runway safety at Del Norte County Regional Airport. This project is critical to maintaining commercial air service to the Brookings and Del Norte County communities.

Both Brookings and Del Norte County experienced significant impacts from the March 2011 tsunami that was generated by the magnitude 9.0 Tohoku earthquake offshore of the east coast of Japan. The Crescent City harbor in Del Norte County experienced over \$50 million in damage in this Presidential-declared disaster event.

Crescent City was also heavily damaged by a tsunami in 1964 following the great Alaska earthquake. Some 30 blocks of the City's commercial district was destroyed and 11 people lost their lives as a 21-foot tsunami tidal surge slammed into the community. Projects that would be undertaken by Brookings and Oregon through the NDRC would benefit other tsunami-risk communities along the Pacific Coast.

It is our understanding that the City of Brookings will pursue NDRC funding for projects such as the development of alternative/resilient sources of water supply and alternative/resilient energy production facilities, as well as developing community resiliency economic and citizen preparedness programs.

Many Brookings residents travel to work in Del Norte County every day, and many people who work in Brookings reside in Del Norte County. We have common disaster risk and economic challenges. We are certain that Del Norte County residents would benefit from disaster and economic resilient strategies and programs emanating from NDRC funded programs developed through the Oregon NDRC program. We welcome the opportunity to partner again with the City of Brookings and the State of Oregon as we all search for strategies to make our communities more resilient.

Sincerely,



David Finigan, Supervisor, Dist. 5



Jay Sarina, County Administrative Officer/OES Director



**DOUGLAS COUNTY
BOARD OF COMMISSIONERS**
CHRIS BOICE SUSAN MORGAN TIM FREEMAN
1036 SE Douglas Ave., Room 217 • Roseburg, Oregon 97470

February 13, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm Douglas County's non-binding support of the City of Reedsport's participation in the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

Douglas County is interested in this project for a number of reasons, including, but not limited to the fact that we own a county shop and a court house annex in the affected area.

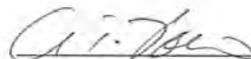
It is understood that this letter is only an expression of our support for the City of Reedsport and does not bind Douglas County to any financial obligations.

Sincerely,

DOUGLAS COUNTY BOARD OF COMMISSIONERS


Susan Morgan, Chair


Tim Freeman


Chris Boice

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

Information (541) 440-4201 • Fax (541) 440-4391

Anytel Print



DOUGLAS COUNTY SHERIFF'S OFFICE

Justice Building - Roseburg, Oregon 97470 - (541) 440-4450

JOHN HANLIN
SHERIFF

March 16, 2015

Members of the committee,

I am sorry I cannot appear before you today in person. I did want to communicate my support of the City of Reedsport and, in general, of this resiliency grant.

As the Emergency Manager for Douglas County for the past 30 years I have had the pleasure of working with the City of Reedsport on many projects in support of community and individual disaster preparedness. What I find very frustrating is that the community, in general, has a desire to improve their resiliency, the problem is that to truly make a difference, due to the hazards they face, it takes a significant amount of money and vision. Without any potential funds, it is difficult to get citizens involved in bringing vision to fruition. You can potentially change this by also supporting and moving forward the projects that the City of Reedsport is putting forth.

With the potential for a significant flood any given year and the forecasted impacts from a Cascadia Earthquake, Reedsport has identified a realistic approach for getting the most out of potential funds to increase resiliency. By funding an approach to bring a levy that has been in place since the 1960's back into compliance you will allow business and residents to continue to afford to live in a community they love. By losing levy certification not only will flood insurance become untenable, in the practical aspect, it leaves those protected by it vulnerable. Not a very good feeling when a severe winter storm hits the coast!

The Scholfield bridge project provides a critical link in the City. The loss of it during an earthquake would create two islands in a community that will already be stretched beyond reason in dealing with the needs of the community. The potential loss of the bridge also increases the difficulty of trying to plan and site disaster related supplies and equipment. With limited dollars available, it makes disaster planning almost unrealistic due to trying to identify what can be stored where. Additionally, when planning, it creates another barrier when we start looking at the capabilities of personnel and where they can be utilized / assigned.

Given Reedsport's disaster history, it's current economic situation and the pending threat of Cascadia, I offer my full support for this project and ask you to do the same.

Should you need any more information from me, I can be reached at (541)440-4448 or email wastinso@co.douglas.or.us.

Sincerely,

John Hanlin, Sheriff

A handwritten signature in blue ink, appearing to read "Wayne A. Stinson", with a long horizontal flourish extending to the right.

Wayne A. Stinson
Emergency Manager



2/18/15

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

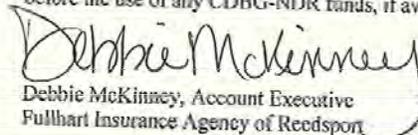
Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and Fullhart Insurance Agency of Reedsport to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

Fullhart Insurance Agency is one of three local agencies in the City of Reedsport doing business in the area since 1977. Our products include; home, auto, commercial/business insurance, health and life insurance, flood insurance, public entity coverages and more. The insurance agents working at Fullhart Insurance Agency each have at least 17 years experience.

Our agency has and will continue to participate in meetings both with the city and the public, regarding flood requirements, current flood costs, and projected flood costs. We recognize the impact on economic development and the vitality of our community with the certification of the levee and together with the city will work toward a resolution.

It is understood this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.


Debbie McKinney, Account Executive
Fullhart Insurance Agency of Reedsport

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

312 Fir Avenue PO Box 598 Reedsport, OR 97467
541-271-2146 541-271-5541 fax 800-752-8516



February 18, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capital
Salem, OR 97301-4047

Dear Ms. Moawad,

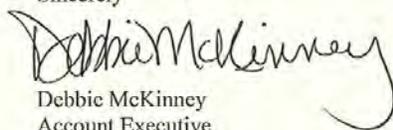
Fullhart Insurance Agency is the insurance agent of record for the City of Reedsport and has been for many years. We feel a partnership with the city and have assisted them through many experiences.

Currently most of the citizens do not have flood insurance. Some are not required as they live in a zone where flood insurance is not mandatory. Many feel protected by the levee. A large number of families living around or near the levee are on fixed incomes, working class people with minimum wage jobs and/or low income. The current cost of flood insurance is unaffordable to most.

During the flooding event of 2011/2012, Fullhart Insurance Agency did not process any flood claims in the city of Reedsport.

Assisting the city with the levee and flood issues would be another opportunity for us to help - not only to help the city but to help the community we live and work in. Mitigating this and finding solutions for the city would help protect the citizens of Reedsport and decrease the liability for damages.

Sincerely


Debbie McKinney
Account Executive

312 Fir Avenue PO Box 598 Reedsport, OR 97467
541-271-2146 541-271-5541 fax 800-752-8516

Governor Kate Brown



February 23, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and Governor's Resilience Cabinet to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The Governor's Resilience Cabinet was formally established on February 10, 2015 by the Governor in order to effectively and innovatively build resilience in rural communities, which is the State of Oregon's vision as part of the Phase 1 application of the CDBG-NDR competition. As background, in early 2014, a "mini Resilience Cabinet" was formed to evaluate issues being discussed by the Oregon Resilience Task Force that was created by the 2013 Senate Bill 33. In late 2014, the Task Force proposed comprehensive recommendations to implement the strategic vision and roadmap of the 2013 Oregon Resilience Plan for preparing for the consequences of future magnitude 9 Cascadia earthquakes and tsunamis. The mini Resilience Cabinet was recently expanded to meet the state's growing needs on building resilience.

The Governor's Resilience Cabinet will ensure that the regional and technical resources are applied to CDBG-NDR activities. It will provide advice on community engagement, including encouraging fruitful partnerships with its many connections. It will oversee administrative functions as required. Last, it will participate to ensure the success of Oregon's rural communities.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

A handwritten signature in black ink, appearing to read "Heidi Moawad".

Governor's Resilience Cabinet
Heidi Moawad
Public Safety & Human Services Policy Advisor to Governor

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

Guy Nordenson and Associates

26 February 2015
by mail and email attachment

Ms Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem
OR 97301-4047
Heidi.Moawad@oregon.gov

Intent to Participate

Dear Ms Moawad

This letter is to confirm the mutual intent of both the State of Oregon and Guy Nordenson to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

Guy Nordenson is a partner at Guy Nordenson and Associates (GNA), a New York-based structural engineering, research and design practice that includes a special expertise in climate adaptation design and engineering. Since 2007 GNA has undertaken research, design and analysis of climate events as they relate to sea-level rise, flooding, and storm surge mitigation. GNA has provided climate change resiliency consultation to private businesses and has assisted stakeholders at the city and state level with climate change initiatives and reports, including the New York City Panel on Climate Change (appointed by Mayor Bloomberg), the New York City Special Initiative for Rebuilding and Resiliency, the NYS 2100 Infrastructure Commission and Report (appointed by Governor Cuomo), the Regional Plan Association, the HUD Rebuild by Design: Hurricane Sandy Regional Planning and Design Competition, the Jamaica Bay-Rockaway Parks Conservancy, Vision 2020: The NYC Comprehensive Waterfront Plan, and PlaNYC. Recently Nordenson's team at Princeton University was awarded a major grant by the Rockefeller Foundation to develop "Structures of Coastal Resilience" in collaboration with the Army Corps of Engineers, coordinating design teams from Harvard, City College of NY and University of Pennsylvania to develop coastal resiliency strategies and designs for the Atlantic seaboard.

Structures of Coastal Resilience follows earlier projects dedicated to envisioning soft infrastructure resiliency strategies for the New York Upper Harbor. A two year collaborative research project funded by the AIA Latrobe Prize resulted in *On the Water*, published by Hatje Cantz and the Museum of Modern Art. This work led to the influential *Rising Currents* exhibition at the Museum of Modern Art in 2010. GNA also consulted for the Port Authority of New York and New Jersey on a pilot project for the beneficial reuse of dredge material for storm protective landscape measures in Red Hook, Brooklyn. Nordenson also has expertise in the field of earthquake engineering. He led the development of the New York City Seismic Code from 1984 to 1995, when it became law. His current research interests include the development of comprehensive coastal hazard mapping strategies to evaluate flood inundation from tsunamis caused by ocean floor earthquakes and from storm surge caused by tropical and extra-tropical cyclones.

Structural Engineers LLP

225 Varick Street 4th Floor
New York NY 10014 USA
Tel 212 766 9119
Fax 212 766 9016
www.nordenson.com

Guy Nordenson and Associates

Mr Guy Nordenson
26 February 2015
Page 2

As a partner in the State of Oregon's application for the National Disaster Resilience Competition, the role of Guy Nordenson and Associates will be to provide strategic design leadership and a science-based analysis and representation of risk given the impact of tsunami flooding at two proposed coastal sites. General coastal strategies leveraging a full range of solutions from structural, non-structural, and nature-based features will be examined. Nordenson's expertise in both earthquake engineering and tropical cyclones will be leveraged to address the management of coastal disaster risk from tsunamis, as well as resilient design strategies that provide general coastal resiliency while also enhancing the protective role of natural ecosystem services.

It is understood that this is letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Sincerely yours



Guy JP Nordenson
Partner
Professor of Architecture and Structural Engineering, Princeton University

Copy
)

Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



Housing Authority of
Douglas County
Affordable Housing
Since 1944

Housing Authority of Douglas County

March 3, 2015

902 W Stanton Street, Roseburg, OR 97471 541-673-6548 Fax 541-673-8230

The Housing Authority of Douglas County, Oregon
902 W. Stanton Street
Roseburg, OR 97471
jkohler@hadco.org

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and The Housing Authority of Douglas County, Oregon (HADCO) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

HADCO has been providing affordable housing in Douglas County since 1944. HADCO owns seventy two affordable housing units in Reedsport comprised of forty eight Low Rent Public Housing units (duplexes and quads) subsidized by the U.S. Department of Housing and Urban Development and twenty four apartment units subsidized by the USDA Rural Development Program. This housing stock provides essential affordable housing in Reedsport, Oregon.

HADCO's ability to provide affordable housing to the Reedsport community is compromised by the deficiency in the coastal infrastructures that would safeguard the community in the event of a catastrophe. HADCO supports the State of Oregon in their endeavor to recognize these deficiencies and improve them as quickly as possible.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

A handwritten signature in black ink that reads "Janeal Kohler".

Janeal Kohler
Executive Director
The Housing Authority of Douglas County, Oregon

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@orspdm.gov)



February 19, 2015

Ms. Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

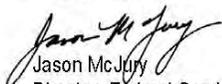
This letter is to confirm the mutual intent of both the State of Oregon and the Institute for Building Technology and Safety (IBTS) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

IBTS's work is guided by a Board of Directors consisting of representatives of five national associations: National Association of Counties (NACo), Council of State Governments (CSG), National League of Cities (NLC), International City/County Management Association (ICMA), and National Governors Association (NGA). Our mission is to help government meet the challenges of governance at all levels through services in the built environment that enhance public safety, economic development, and the general welfare of communities.

IBTS proposes to support the State of Oregon in the preparation of its Phase 2 submission if invited, and to support the implementation of its proposed projects if awarded funds from the competition. IBTS proposes to provide services to the State of Oregon as needed in the areas of building regulation, transitional disaster housing, disaster recovery, and seismic mitigation. These services will be provided by IBTS Senior Advisor David Hattis and other professional staff as needed.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Respectfully,


Jason McJury
Director, Federal Services

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

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March 13, 2015

Ms. Heidi Moawad
Office of the Governor
254 State Capitol
Salem, Oregon 97301-4047

Re: Community Development Block Grant National Disaster Resilience

Dear Ms. Moawad:

The League of Oregon Cities supports the efforts of the Association of Oregon Counties to collaborate and partner in carrying out eligible activities as provided in the State of Oregon's CDBG-NCR application. There is a very strong need for assistance in the two sub-county target areas in Brookings and Reedsport. In addition to providing needed assistance to these areas, the project would serve as a demonstration project for other communities in Oregon.

Sincerely,

Michael J. McCauley
Executive Director

Helping Cities Succeed



Lower Umpqua Hospital District
600 Ranch Road
Reedsport, OR 97467

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and Lower Umpqua Hospital District to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

Lower Umpqua Hospital District is the Health District for Western Douglas County. The Hospital and Health District plans, coordinates, and supports the City of Reedsport through a variety of vehicles, including disaster prevention and preparedness. The City of Reedsport and the Lower Umpqua Hospital District work in tandem to meet essential public safety needs of the community we serve.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Sincerely yours,

Sandra Reese
Administrator
Lower Umpqua Hospital District

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



Building Homes, Building Communities, Building Lives

NeighborWorks Umpqua
605 SE Kane Street
Roseburg, OR 97470
btamm@nwumpqua.org

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and Neighborworks Umpqua to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

NeighborWorks Umpqua is a private, rural nonprofit organization working to enhance lives for Oregon residents in Coos, Curry, and Douglas Counties. We do this by increasing access to affordable housing and creating partnerships that promote community stability, business success and economic growth. NeighborWorks Umpqua works to connect Southwest Oregon residents with programs, resources and services that help them improve their lives and enhance local communities.

NeighborWorks Umpqua would welcome the opportunity to partner with the State of Oregon and communities within our operating footprint to develop and deliver programs to improve the resiliency of the housing stock within those communities.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

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

NeighborWorks Umpqua
Betty Tamm, CEO

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

605 SE Kane Street - Roseburg, OR 97470 - 541 673-4909 - www.nwumpqua.org



phone (208) 375-9100 | fax (208) 375-9158 | toll-free (888) 270-3274 | P.O. Box 210 W Mallard Drive | Boise, Idaho 83706 | www.nwrec.com

Northwest Real Estate Capital Corp.
Northwest Riverside Manor I LLC & Northwest Riverside Manor II LLC
210 W Mallard Dr.
Boise, Idaho 83706

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and Northwest Real Estate Capital Corp. to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

Northwest Real Estate Capital Corp. is a 501(c)3 involved in the ownership and management of HUD Section 8 deep subsidy affordable housing communities. We are involved with Riverside Manor I & II in Reedsport, Oregon and are located in a high risk flood plain.

It is the intent of Northwest Real Estate Capital Corp. to partner with the state of Oregon, Douglas County and the City of Reedsport to support the implementation of the National Disaster Resilience project. We will work with them for access to our property for improving infrastructure to diminish or eliminate potential risks and to protect the lives of our residents, housing, other assets and the services we provide to our community in Reedsport.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Signature of Authorized Representative of Partner

Northwest Real Estate Capital Corp.

Noel Gill

Vice President

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



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Oregon Climate Change Research Institute (OCCRI), College of Earth, Ocean, & Atmospheric Sciences (CEOAS)
Oregon State University, 104 CEOAS Administration Building, Corvallis, Oregon 97331-5503
T 541-737-5705 | F 541-737-2540 | <http://www.ceoas.oregonstate.edu/> | www.occri.net

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov
Re: Intent to Participate

February 25, 2015

Dear Ms. Moawad,

This letter is to confirm the mutual intent of both the State of Oregon and the Oregon Climate Change Research Institute (OCCRI) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

In 2007, the Oregon State legislature created OCCRI at OSU. The statute calls on OCCRI to foster climate change research among faculty at Oregon's public universities. OCCRI serves a growing portfolio of needs from partners throughout the Northwest including state agencies, federal agencies, tribes, municipalities, businesses, and non-profit organizations, as they seek to use better information about climate change to build a more resilient future.

For this project, we would provide best available science concerning the climate-related risks to the communities selected, participate in outreach activities, and draw in other experts as needed.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

If you have any questions please feel free to contact me.

Sincerely,



Philip Mote, PhD
Director, Oregon Climate Change Research Institute
Professor, College of Earth, Ocean, and Atmospheric Science
Oregon State University
pmote@coas.oregonstate.edu



Oregon Coast Community Action

Feed • House • Warm • Educate

February 18, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

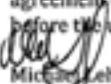
Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and Oregon Coast Community Action (ORCCA) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

ORCCA is the Community Action agency representing Coos and Curry Counties. In these two counties we provide a food warehouse which operates for the Oregon Food Bank. We deliver food to the two counties. In addition, we provide housing, energy services and weatherization services to this areas as well as run the Head Start programs in both counties. ORCCA has significant contact with those below poverty or otherwise disadvantaged. We also have some programs in Reedsport which, although served by UCAN in Douglas County, would likely rely on our services in the event of a national disaster due to proximity (20 miles).

ORCCA has several roles we can play in disaster preparedness. First, we have considerable physical resources, most importantly a three year old warehouse that has back-up generators. Second, we have deliver systems to move food and people in the community. Finally, we have contact information for significant populations of disadvantage citizens who will likely be first in need during a crisis. ORCCA is able and willing to act in whatever capacity the communities would like for us.

It is understood that this is letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.


Michael Lehman
Executive Director
MRI/bm

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

P.O. Box 899 • Coos Bay, OR 97420 • (541) 435-7080 • www.orcca.us



Oregon Coastal Zone Management Association

P.O. Box 1033 • 313 S.W. 2nd • Suite C • Newport, Oregon 97365 • Tel: 541-265-8918 / 265-6651 • Fax: 541-265-5241 • www.oczma.org

February 25, 2015

Ms. Heidi Moawad, Public Safety & Human Services Policy Advisor
Office of the Governor
254 State Capitol
Salem, Oregon 97301-4047

RE: OCZMA SUPPORT FOR STATE OF OREGON PROPOSAL UNDER THE
NATIONAL DISASTER RESILIENCE COMPETITION (NDRC)

Dear Ms. Moawad:

It is our understanding that the City of Brookings (and the community of Harbor) and the City of Reedsport have been selected as a partner with the State of Oregon in submitting a grant proposal to the U.S. Department of Housing & Urban Development for the Community Development Block Grant National Resilience (CDBG-NDR) competition as it relates to activities that would help assist the state of Oregon and its local communities to become more resilient to the impacts of disasters and to strengthen economic resilience.

The Oregon Coastal Zone Management Association (OCZMA), an association of coastal local governments (counties, cities, ports and soil & water conservation districts) on the Oregon Coast would like to express its support for the City of Brookings (and the community of Harbor) and the City of Reedsport and the State of Oregon in submitting this grant proposal to the U.S. Department of Housing & Urban Development.

OCZMA is very aware of the exposure that the southern Oregon Coast has relating to natural disasters and socioeconomic risks that could adversely their communities, as well as all the communities along the Oregon Coast. Information learned from a project such as this would have positive effects in addressing resiliency approaches on the entire Oregon Coast and the State of Oregon.

Thank you for the opportunity to support this grant proposal to the U.S. Department of Housing & Urban Development.

Sincerely,

Walter Chuck, Chair (Port of Newport Commissioner)
OREGON COASTAL ZONE MANAGEMENT ASSOCIATION (OCZMA)

WC/gy

City of Brookings • City of Cannon Beach • City of Coos Bay • City of Depoe Bay • City of Florence • City of Garibaldi • City of Lakeside • City of Lincoln City
City of Manzanita • City of Nehalem • City of Newport • City of North Bend • City of Port Orford • City of Reedsport • City of Rockaway Beach • City of Tillamook
City of Toledo • City of Yachats • Clatsop County • Clatsop Soil & Water Conservation District • Coos County • Coos Soil & Water Conservation District
Coquille Indian Tribe • Curry County • Curry Soil & Water Conservation District • Douglas County • Lane County • Lincoln County
Lincoln Soil & Water Conservation District • Port of Alsea • Port of Astoria • Port of Bandon • Port of Brookings Harbor • Oregon International Port of Coos Bay
Port of Garibaldi • Port of Gold Beach • Port of Nehalem • Port of Newport • Port of Port Orford • Port of Siuslaw • Port of Tillamook Bay • Port of Toledo
Port of Umpqua • Siuslaw Soil & Water Conservation District • Tillamook County • Tillamook Soil & Water Conservation District • Umpqua Soil & Water Conservation District



Oregon

Kate Brown, Governor

Department of Environmental Quality

Agency Headquarters

811 SW Sixth Avenue

Portland, OR 97204-1290

(503) 229-5696

FAX (503) 229-6124

TTY 711

Oregon Department of Environmental Quality
811 SW 6th Avenue
Portland Oregon 97204
pedersen.dick@deq.state.or.us

March 5, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and the Oregon Department of Environmental Quality (DEQ) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

DEQ is responsible for protecting and enhancing Oregon's water, land and air quality, and for enforcing Oregon's environmental laws. In addition to state programs, the U.S. Environmental Protection Agency delegates authority to DEQ to operate federal environmental programs within the state such as the federal Clean Air, Clean Water, and Resource Conservation and Recovery Acts. DEQ staff use a combination of technical assistance, inspections and permitting to help public and private facilities and citizens understand and comply with state and federal environmental regulations.

DEQ supports the communities of Reedsport and Brookings in their efforts to plan ahead for disaster resilience. The agency proposes to offer technical assistance for project aspects that have an environmental nexus, such as stormwater planning, wastewater and stormwater system improvements, water quality permits for construction activities or green infrastructure, and may be able to offer financial assistance in the form of state revolving fund loans.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Sincerely,



Dick Pedersen
Director
Oregon Department of Environmental Quality
pedersen.dick@deq.state.or.us

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



Oregon

Kate Brown, Governor

Department of Forestry

State Forester's Office
2600 State Street
Salem, OR 97310
503-945-7200
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TTY 503-945-7213 / 800-437-4490
<http://www.odf.state.or.us>

Urban and Community Forestry Assistance program
Oregon Department of Forestry
2600 State Street
Salem, OR 97310

- Paul.Ries@oregon.gov
- Kristin.Ramstad@oregon.gov



February 20, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and the Oregon Department of Forestry's Urban and Community Forestry Assistance Program (ODF-U&CF) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The ODF-U&CF program offers educational, technical and financial assistance to cities on issues relating to urban forestry, all aspects of tree care and management, and Low Impact Development (LID). The ODF-U&CF program specializes in dealing with tree-related issues within city limits and urban growth boundaries.

ODF-U&CF proposes to offer assistance to disaster-affected communities by assisting in the development of LID projects that are designed to mitigate the effects of stormwater surges in urbanized areas. These include, but are not limited to, creating rain gardens and stream restoration-type activities that both improve the quality of water in urban riparian areas and moderate the flow of water through cities. Additionally, ODF-U&CF proposes to train local arborists and city staff on creating community-specific risk management plans for coastal community trees, since coastal urban forests are unique

unto themselves. ODF-U&CF can also assist in urban-forestry related disaster planning and preparation, such as debris piling and removal, storm-preparation pruning of trees, discouraging the removal of trees on slide-prone areas for development activities, and identifying local resources and services to help with the clearing and removal of fallen trees and limbs.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Sincerely,



Paul D. Ries

Urban and Community Forestry Assistance Program Manager
Oregon Department of Forestry Urban and Community Forestry Assistance Program

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer
(Yumei.Q.Wang@oregon.gov)



Oregon

Kate Brown, Governor

Department of Geology and Mineral Industries

Administrative Offices
800 NE Oregon St., Suite 965
Portland, OR 97232-2162
(971) 673-1555
Fax: (971) 673-1562
www.oregongeology.org

Oregon Department of Geology and Mineral Industries
800 NE Oregon St. #28
Portland, OR 97232

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and the Oregon Department of Geology and Mineral Industries (DOGAMI) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

DOGAMI has statutory authority to collect and disseminate information on natural hazards and to facilitate and promote risk analysis, hazard mitigation and risk reduction. In recent years, DOGAMI has completed state-of-the-art tsunami inundation modeling for the entire Oregon Coast, and has extensive experience with public outreach and training for community based tsunami evacuation education. DOGAMI has nearly completed new state-of-the-art wave and storm surge inundation mapping and river flooding mapping for all Oregon coastal communities. DOGAMI has completed predictive erosion hazard mapping for much of the coast, in some areas including the expected impacts of climate change and sea level rise. DOGAMI has published detailed seismic hazard maps for numerous coastal communities, and a statewide hazard map showing expected impacts of an M 9 Cascadia Subduction Zone earthquake. DOGAMI is nearing completion new geologic maps of the South Coast, based on high resolution lidar topographic data collected by DOGAMI in 2008 for the entire coast. DOGAMI has recently completed detailed lidar-based landslide inventory maps for the entire coast of Curry County. Finally DOGAMI has been funded by FEMA to do multi-hazard risk analysis using Hazus-MH software for 24 coastal communities, including Brookings and Reedsport.

DOGAMI can support the community resilience planning efforts by providing all available hazard data and consulting with other participants on the appropriate use of that data. As a contractor, DOGAMI can also provide new, custom hazard data to address climate change impacts on erosion and flooding, landslide susceptibility and risk, and detailed seismic hazard maps and damage and loss estimates.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Sincerely,

A handwritten signature in black ink that reads "Ian Madin". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

Ian Madin
Interim Oregon State Geologist
Oregon Department of Geology and Mineral Industries
ian.madin@dogami.state.or.us

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



Oregon
Kate Brown, Governor

Department of Transportation
District 7 Maintenance Office
3500 Stewart Parkway #161
Roseburg OR 97470
Phone: (541) 957-3586
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Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Reedsport Levee Repair Project

This letter is to confirm that the Oregon Department of Transportation (ODOT) is in support of the City of Reedsport and their efforts to repair the cities levee system.

The levee system was constructed back in 1968 with the intent to protect Reedsport's waterfront, downtown, and adjacent neighborhoods and commercial areas from flooding. The levee system also provides protection to portions of two state highways. Portions of the Umpqua Highway (Highway 38) and Oregon Coast Highway (US 101) are both located within this levee system.

If repairs are not put in place, not only will it devastate a large portion of the city of Reedsport but failure of these levees will interrupt travel and commerce on both of these highways. The Oregon Coast highway is the only north-south highway located west of the coastal mountain range and the Umpqua Highway is one of three critical east-west seismic lifeline routes connecting the inland, I-5 corridor, to the coastal highway system; both of these routes are critical to the economy and, from a natural disaster standpoint, critical for trying to get emergency goods, supplies and services these coastal communities.

It is because of this that ODOT fully supports this project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Chris Hunter".

Chris Hunter, PE
ODOT Assistant District 7 Manager

Cc: Jonathan Wright, City of Reedsport, City Manager (jwright@cityofreedsport.org)
Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yunzei Wang, DAS CFO, Resilience Engineer (Yunzei.Q.Wang@oregon.gov)



UNIVERSITY OF OREGON

Oregon Partnership for Disaster Resilience
Community Service Center
University of Oregon
1209 University of Oregon
Eugene, OR 96403-1209
jdbruce@uoregon.edu

March 4, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and Oregon Partnership for Disaster Resilience (OPDR) at the University of Oregon's Community Service Center (CSC) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

OPDR is a coalition of public, private, and professional organizations working collectively with graduate students and University of Oregon faculty toward the mission of creating a disaster resilient and sustainable state. Developed by the CSC at the University of Oregon, OPDR utilizes a service learning model to provide natural hazard planning assistance to communities throughout Oregon. Our program demonstrates how increased communication, coordination and collaboration between diverse partners can assist communities in reducing their risk from natural hazards.

OPDR proposes to work with the State of Oregon as a sub-recipient or contractor to leverage existing hazard mitigation, disaster recovery and community resilience network projects in the region. Specifically, we are currently working with the Cities of Brookings and Reedsport on updates to their respective FEMA compliant Natural

SPONSORED PROJECTS SERVICES

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ORSA@uoregon.edu · <http://orsa.uoregon.edu>

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Hazard Mitigation Plans (FEMA Grant Number EMS-2014-PC-0005; PDMC-PL-10-OR-2013-001). In addition, we are actively engaged in developing a south coast resilience network and local recovery plans in Curry, Coos, Douglas and Lane Counties. This work is funded through a cooperative agreement with NOAA and local support provided by The Ford Family Foundation (NOAA Award Number NA14NOS4730153). OPCR will build on and leverage these activities to assist Reedsport, Brookings and other partners.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any EDBG-NDR funds, if awarded.



Marsha Gravesen
Sponsored Projects Administrator
University of Oregon
Sponsored Projects Services



Josh Bruce
Program Director
University of Oregon
Community Service Center
Oregon Partnership for Disaster Resilience

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



Shelby E. Walker, Director
Oregon Sea Grant
1600 SW Western Blvd, Corvallis, OR 97333
T 541-737-6200 | F 541-737-7958 | E shelby.walker@oregonstate.edu



March 5, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and Oregon Sea Grant to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

Established at Oregon State University in 1971, Oregon Sea Grant is one of 33 state programs within the National Oceanic and Atmospheric Administration's Sea Grant College Program, authorized by Congress in 1968. Oregon Sea Grant serves as a catalyst to promote discovery, understanding and resilience for Oregon coastal communities and ecosystems.

Oregon Sea Grant has a diverse portfolio of activities, including engaging directly with communities and industries, coordinating research activities, developing curricula and supporting its implementation, supporting workforce development, developing communications products, and others. Our role in these activities is equally diverse, including developing and leading efforts, facilitating dialogue, and coordinating with partners.

Oregon Sea Grant has significant experience in and a robust history of helping communities become more resilient in the face of the potential earthquake and resulting tsunami, recurring coastal hazards, chronic environmental issues, and economic downturns. A partnership under the auspices of the HUD resilience grant is a natural fit with our experience and capabilities.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

A handwritten signature in black ink, appearing to read "Shelby E. Walker".

Shelby Walker
Director, Oregon Sea Grant



Oregon

John A. Kitzhaber, MD, Governor

Seismic Safety Policy Advisory Commission

Oregon Emergency Management

Mailing Address: PO Box 14370

Salem, OR 97309-5062

Phone: (503) 378-2911

Fax: (503) 373-7833

February 23, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and the Oregon Seismic Safety Policy Advisory Commission (OSSPAC) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The mission of OSSPAC is to improve public understanding of earthquake hazards, reduce such hazards and mitigate the possible effects of potentially damaging earthquakes (and tsunami hazards) in Oregon. We recognize that the south Oregon Coast faces the highest likelihood of a subduction zone earthquake and tsunami and that these threatened communities should pursue all opportunities to reduce risk and plan now for recovery.

As the authoring body of the 2013 Oregon Resilience Plan, we support the communities of Brookings and Reedsport with their investments towards disaster resilience in planning for an inevitable Cascadia event.

It is understood that this is letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Jay Wilson, Chair

Jay Raskin, Vice Chair

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

*Physical location: 3225 State Street, Room 115, Salem, Oregon
9-1-1 SAVES. . .*



Oregon

Kate Brown, Governor

March 18, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

Dear Ms. Moawad:

This letter is to confirm the mutual intent of both the State of Oregon and the Oregon State Historic Preservation Office (SHPO) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The Oregon SHPO was established in 1967, following implementation of the National Historic Preservation Act (NHPA), enacted in 1966, which, among other mandates, requires each state to establish a State Historic Preservation Office. The SHPO provides review and comment on effect of federal undertakings (which includes projects funded by the federal government) on historic built and archaeological resources, as well as managing the records and other data pertaining to cultural resources. Projects funded through this program must be reviewed by our office per Section 106 of the NHPA.

The Oregon SHPO is prepared to assist the grantee of funding through this program to navigate the process of compliance with NHPA, provide information on the locations of known cultural resources of significance in and near the cities of Brookings and Reedsport, provide advice and assistance on measures that will help to avoid or minimize adverse impacts to historically significant built and archaeological resources, and provide adequacy and completeness review of cultural resources studies that may result from environmental review of the project areas.

Our office is aware of the presence of significant archaeological sites and historic, built resources within both Reedsport and Brookings, including several that are listed in the National Register of Historic Places. Both of these communities likely have additional significant cultural resources within or near their jurisdictional boundaries, and should funding be provided for projects in these communities, we are prepared to assist through our role under NHPA. If projects funded through this program is funded, please contact Jason Allen, Historic Preservation Specialist (jason.allen@oregon.gov; 503.986.0579) and/or Dennis Griffin, State Archaeologist (dennis.griffin@oregon.gov; 503.986.0674) to begin coordination and consultation.

Parks and Recreation Department

State Historic Preservation Office

725 Summer St NE Ste C

Salem, OR 97301-1266

Phone (503) 986-0690

Fax (503) 986-0793

www.oregonheritage.org



It is understood that this is letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Sincerely,



Ian P. Johnson
Oregon State Historic Preservation Office
Interim Assoc. Deputy State Historic Preservation Officer

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



School of Civil and Construction Engineering
Oregon State University, 220 Owen Hall, Corvallis, Oregon 97331-3212
T 541-737-4934 | F 541-737-3052 | <http://cce.oregonstate.edu>

February 23, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate on Disaster Resilience

This letter is to confirm the mutual intent of both the State of Oregon and Oregon State University to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

At Oregon State University, we have expertise across several disciplines to help with Oregon's need for disaster resilient communities:

- In the College of Earth, Atmosphere and Ocean Science, we have expertise in *prediction* of the hazard, particularly chronic natural hazards related to global climate change including coastal storms, and acute natural hazards related to earthquakes, tsunamis, and other extreme events. (POC: Dr. Peter Ruggiero, pruggier@coas.oregonstate.edu)
- In the College of Engineering, we have expertise in *protection*, including protecting the personal life safety from extreme events and mitigating damage and loss to the built and natural environment. (POC: Dr. Daniel Cox, dan.cox@oregonstate.edu)
- In the College of Liberal Arts, we have expertise in the *perception* of risk, including working with vulnerable communities and groups, and the communication of risk through outreach and engagement. (POC: Dr. Lori Cramer, lcramer@oregonstate.edu)

The College of Engineering will be part of a new, five-year, \$20M Center of Excellence sponsored by the National Institute of Standards and Technology. This center will develop computer tools to help local governments invest resources to lessen the impact of extreme weather and other hazards on buildings and infrastructure and to recover rapidly in their aftermath. I am serving as the associate director of this new center and will bring these new tools to help with disaster resilience in Oregon.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Daniel Cox, Ph.D.
Professor, School of Civil and Construction Engineering

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



Port of Brookings Harbor
16340 Lower Harbor Rd
Brookings, OR 97415
(541) 469-2218
director@port-brookings-harbor.com

Board of Commissioners:

- Chairman**
Roy Davis
- Vice Chairman**
Sue Gold
- Secretary/Treasurer**
Jim Relatord
- Board Members**
Mike Manning
Tim Patterson

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and the Port of Brookings Harbor to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The Port of Brookings Harbor is a special district providing commercial and recreational port services and visitor services to a 400 square mile area of the southern Oregon coast.

The Port of Brookings Harbor will be a subrecipient of funds to meet unmet needs occurring from the 2011 tsunami disaster which resulted in over \$6.5 million in damage to Port facilities. The Port District will also work with the State and the City of Brookings in the development of a Master Plan of Development for the Port which develop measures to improve resiliency from potential disaster risks and economic resilience of the Brookings Harbor community.

It is understood that this is letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

P.O. Box 648
Brookings, OR 97415
Phone: 541-469-2218
Fax: 541-469-0672

This Institution is an Equal Opportunity Provider

Serving the Public Since 1956

Website: www.port-brookings-harbor.com
Email: info@port-brookings-harbor.com



Board of Commissioners:

Chairman
Roy Davis

Vice Chairman
Sue Gold

Secretary/Treasurer
Jim Relatord

Board Members
Mike Manning
Tim Patterson

Port of Brookings Harbor

Ted Fitzgerald
Executive Director

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer
(Yumei.Q.Wang@oregon.gov)

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Website: www.port-brookings-harbor.com
Email: info@port-brookings-harbor.com



Port of Umpqua
1877 Winchester Ave.
PO Box 388
Reedsport OR 97467

Office: 541.271.2232
Fax: 541.271.2747
portofumpqua@portofumpqua.net

March 5, 2015

Port of Umpqua
PO Box 388
1877 Winchester Ave
Reedsport OR 97467

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-8550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and the Port of Umpqua to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The Port of Umpqua was established in 1913 to generate economic opportunity in the region. The Port district is 750 square miles in area and includes the communities of Reedsport, Winchester Bay, Elkton and others. The port is accessible by rail (Coos Bay Rail Link) and from Highway 101 along the coast or from Highway 38, a state highway which connects to I-5. The Port also has a full time year-round Coast Guard station at Station Umpqua River, Winchester Bay.

The Port cooperates with numerous organizations that are focused on economic development in its region, as well as the County Government in Roseburg and City Government in Reedsport. In addition, the Port of Umpqua is adjacent to recently vacated industrial properties which could be the home to more industrial employment.

It is understood that this is letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Charmaine Vitek
District Manager
Port of Umpqua

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumel Wang, DAS CFO, Resilience Engineer (Yumel.Q.Wang@oregon.gov)

As part of public policy, the Port of Umpqua will attempt to provide public accessibility to services, programs and activities. If accommodation is needed at this meeting please contact the Port office at 271-2232 at least 48 hours prior to the scheduled meeting time.

RioTinto

Rio Tinto Minerals – Land Management

Boron Operations
14486 Borax Road
Boron, California 93516
USA
760-762-7047

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047

March 16, 2015

Re: Intent to Participate

The purpose of this letter is to express our intent to be an active partner, contingent upon the award of funds through the National Disaster Resilience Competition, in developing strategies and projects aimed at improving the economic resiliency of the Brookings area of southwestern Oregon.

The Rio Tinto-US Borax is the owner of some 500 acres of land located within the City of Brookings and has an approved development plan for a 1,000 unit residential subdivision and small commercial area. We have already partnered with the Brookings community by providing a site for a 10-acre community college campus, which was constructed in 2012.

Our development plan provides for a mix of housing types and affordability. The major hindrances to our proceeding with the project have been the slow economic recovery on southwestern Oregon and the high cost of infrastructure development. We are certainly willing to pursue development alternatives and partnerships with the State, the community and local housing and economic development agencies that would enable this project to proceed in a fashion that would help to meet the housing and economic needs of the area.

Rio Tinto-US Borax is a global leader in industrial mineral supply and science. We provide nearly half the world's supply of refined borates, remarkable minerals that are essential to life and to modern living.

Rio Tinto, a premiere international mining and resources company, distinguishes itself through cutting-edge research and development; world-class safety, environmental and community practices; and a commitment to constant innovation and improvement.

We look forward to working with the State of Oregon and the City of Brookings in the implementation of this program.

Kind regards,



Nathan Francis
Land Manager



February 2, 2015

Alice Wiewel
State Architect and Director of Facilities Planning
Oregon Department of Administrative Services
155 Cottage St NE U10
Salem, OR 97301-3965

Re: Letter of Support for the City of Brookings under the National Disaster Resilience Competition (NDRC)

Dear Ms. Wiewel,

Rogue Credit Union is proud to offer this letter of support for the City of Brookings and their efforts to secure funding under the NDRC. Brookings is a vital community to the South Coast of Oregon and their efforts to be more resilient to the impacts of disaster will only strengthen Brookings' economic sustainability.

I have reviewed the NDRC Fact Sheet and have consulted with the City of Brookings concerning the possible resiliency measures that may be employed under the NDRC program.

Specifically, Rogue Credit Union is interested in partnering with the City of Brookings, the Port of Brookings Harbor and the State of Oregon to develop resiliency approaches, programs and projects which would address the following needs of the community:

- Emergency medical care, specifically the need for an Emergency Room at the Brookings Clinic.
- Reliable potable water supply, specifically to address threats to existing sources of supply from sea level change and the need for increased storage capacity.
- Seismic-resilient transportation systems, including the retrofit of the Chetco River Bridge which serves to link the Harbor community to essential services located in Brookings.
- Resiliency-oriented economic development planning for the City, the Port and the region, including a resiliency-oriented master plan of development for the Port.
- Community services for low and moderate income residents.
- The shortage of affordable housing.
- Measures to address the area's chronically high unemployment, which is currently 18.5 per cent of the national rate.
- Family and neighborhood preparedness.
- Infrastructure improvements, such as improved drainage facilities and replacement of sewer lines to avoid environmental damage from storm events.

Rogue Credit Union recognizes that the Brookings and Harbor area has an exposure to a number of natural disaster and socioeconomic risks that could adversely affect our community. Those same risks impact the resilience of our credit union and that is why I am submitting this letter of support. By joining in the collaborative efforts with other community stakeholders to address these risks the credit union has become clearly aware of additional resources that are needed to ensure resilience in our community.

Thank you for your consideration.

A handwritten signature in black ink, appearing to read "Gene Pelham".

Gene Pelham
President/CEO

P.O. Box 4550, Medford, OR 97501
800.856.7328 | www.roguefcu.org



South Coast / Umpqua Regional Solutions Advisory
Committee

February 27, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the intent of the South Coast and Umpqua Region Regional Solutions Advisory Committee to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The Governor's Regional Advisory Committees meet regularly to help interagency teams identify high level priorities for the public, private and civic sectors in each region. The team members collaborate as needed to help connect state resources with local communities and to expand our collective capacity to solve problems and seize economic and community development opportunities. State agency team members represent the following agencies; Department of Environmental Quality, Department of Land Conservation and Development, Department of State Lands, Business Oregon including the Infrastructure Finance Authority, Department of Transportation, and Department of Employment.

It is understood that this is letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Sincerely yours,

Keith Tymchuk
Convener

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



South Coast Regional Solutions Center
100 East Main, Suite A
Medford OR 97501

February 25, 2015

South Coast Regional Solutions Center
100 East Main Street, Suite A
Medford OR 97501

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the intent of the South Coast and Umpqua Region Regional Solutions Team (RST) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The Governor's Regional Solutions Centers and Teams have been established throughout the state to help communities rebuild a strong economy for Oregon. Regional Advisory Committees meet regularly to help interagency teams identify high level priorities for the public, private and civic sectors in each region. The team members collaborate as needed to help connect state resources with local communities and to expand our collective capacity to solve problems and seize economic and community development opportunities. State agency team members include Business Oregon, Department of Environmental Quality, Department of Land Conservation and Development, Department of State Lands, Infrastructure Finance Authority, Department of Transportation, and Department of Employment.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Sincerely yours,

Jeff Griffin
Regional Coordinator
Governor's Regional Solutions Team, SW Oregon

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

The South Coast Development Council's mission is to promote and support businesses that provide quality jobs through responsible development on Oregon's South Coast.

January 28, 2015

Alice Wiewel
State Architect
State of Oregon



50 Central Avenue, Suite A
Coos Bay, OR 97420
541 266-9753
FAX 541 267-2753

We are writing to support the City of Brookings and the State of Oregon in their efforts to secure funding under the National Disaster Resilience Competition (NDRC) and to support their efforts to make our state and its local communities more resilient to the impacts of disaster and to strengthen economic resilience.

We are happy to support the City of Brookings in this important initiative. The safety and sustainability of our communities is essential to the future economic prosperity of the region.

Specifically, we are interested in partnering with the City of Brookings, the Port of Brookings Harbor and the State of Oregon to develop resiliency approaches, programs and projects which would address the following needs of the community:

- Emergency medical care, specifically the need for an Emergency Room at the Brookings Clinic.
- Seismic-resilient transportation systems, including the retrofit of the Chetco River Bridge which serves to link the Harbor community to essential services located in Brookings.
- Resiliency-oriented economic development planning for the City, the Port and the region, including a resiliency-oriented master plan of development for the Port.
- Community services for low and moderate income residents.
- The shortage of affordable housing.
- Measures to address the area's chronically high unemployment, which is currently 18.5 per cent of the national rate.
- Infrastructure improvements, such as improved drainage facilities and replacement of sewer lines to avoid environmental damage from storm events.

We recognize that the City of Brookings and Harbor area has an exposure to a number of natural disaster and socioeconomic risks that could adversely affect our community. The South Coast Development Council a non-profit organization specializing in economic development and the retention and expansion of local businesses has been participating in collaborative efforts with other community stakeholders to address these risks, and also recognizes that additional resources are needed. For this reason we put our full support behind the City of Brookings in securing funding under the NDRC.

Sincerely,

Connie Stopher

Executive Director

South Coast Development Council

541-266-9753



Sponsor Investors:

Bandon Dunes Golf Resort ♦ Bay Area Hospital ♦ City of Coos Bay ♦ Coos County ♦ Jordan Cove Energy ♦

Oregon International Port of Coos Bay

CADDY HANEN MCKEOWN
STATE REPRESENTATIVE
HOUSE DISTRICT 9



HOUSE OF REPRESENTATIVES
900 COURT ST NE
SALEM, OR 97301

March 3, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm that, as Southern Oregon coastal legislators, we support the State of Oregon's application for the United States Department of Housing and Urban Development's Community Development Block Grant National Disaster Resilience (CDBG-NDR), and look forward to opportunities to collaborate and enter into a partner agreement, contingent upon the award of funds, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

Improving infrastructure and increasing resiliency is vitally important to our coastal communities and their ability to withstand and recover from a Cascadia subduction earthquake, severe storms, and flooding. As representatives of the Southern Oregon coast, we are committed to finding opportunities to protect the citizens, property, businesses, and services in our coastal areas.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Best regards,

Representative Caddy McKeown

Senator Arnie Roblan

503-986-1409 - rep.caddymckeown@state.or.us - www.leg.state.or.us/mckeown - 503-986-1409



CADDY HANEN MCKEOWN
STATE REPRESENTATIVE
HOUSE DISTRICT 9



HOUSE OF REPRESENTATIVES
900 COURT ST NE
SALEM, OR 97301

Representative Wayne Krieger

Senator Jeff Kruse

Representative Deborah Boone

503-986-1409 - rep.caddymckeown@state.or.us - www.leg.state.or.us/mckeown - 503-986-1409



February 12, 2015

Heidi Moawad, Public Safety Policy Advisor
Office of the Governor
254 State Capitol
Salem, Oregon 97301-4047

Re: Intent to Participate in HUD NDR Competition

Dear Ms. Moawad:

This letter is to confirm the intent of the State Interagency Hazard Mitigation Team (State IHMT) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, as provided in the State of Oregon's CDBG-NDR application. The State IHMT is comprised of 17 state agencies as well as federal, private, academic, and nonprofit partners.

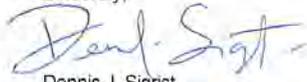
The State IHMT has a very long history: Governor Kitzhaber – in his first term – convened a hazard mitigation policy task group following the February 1996 floods. It met several times during the spring of 1996. The current membership of the State IHMT grew out of the events of the disastrous autumn and winter of 1996/1997, initially with emphasis on mitigating fast-moving debris flows like those that led to the loss of eight lives in Douglas County that winter. On March 4, 1997, Governor Kitzhaber directed the Office of Emergency Management (OEM) to "make the...Interagency Hazard Mitigation Team a permanent body. Direct the team to establish regular meeting dates..."

Today the member agencies of the State IHMT generally meet quarterly to understand losses arising from natural hazards, and recommend strategies to mitigate loss of life, property, and natural resources. In the case of the NDR competition, the State IHMT intends to serve as an advisory body.

I have attached the current roster of the State IHMT to this letter. I have also attached portions of meeting minutes that address the HUD NDR competition from the July 17, 2014; October 17, 2014; and January 15, 2015 quarterly meetings. The first two have been adopted by the State IHMT; the third will be subject to adoption at the April 16 meeting.

It is understood that this letter is only an expression of our intent, and that a binding partner agreement detailing the terms and conditions of the proposed partnership will be implemented if CDBG-NDR funds are awarded to the State of Oregon.

Sincerely,



Dennis J. Sigrist
State Hazard Mitigation Officer
Chair, State IHMT

DJS:jam

Attachments: State IHMT Roster

Excerpts from meeting minutes:

July 17, 2014, Agenda #6, as adopted

October 17, 2014, Agenda #7, as adopted

January 15, 2015, Agenda #8, as drafted

Copy: Alice Wiewel, DAS CFO, State Architect

Yumei Wang, DAS CFO, Resilience Engineer

Excerpts from meeting minutes

July 17, 2014, Agenda #6, as adopted

Dennis mentioned one billion dollars in HUD money that he has been tracking for a couple of weeks now that is likely to turn into a resiliency grant program. Yesterday Dennis learned that this is to be a two-phase process with the first phase involving essentially a risk assessment. Dennis says we will work with Business Oregon, and that Reedsport is a possible candidate for this funding. Josh noted that the White House made an announcement yesterday about a new climate based resilience initiative that includes, but is not limited to, this HUD money. It includes a mitigation task force at the federal level. It also includes new NOAA money (\$1.5 million competitive), and EPA and CDC money.

October 17, 2014, Agenda #7, as adopted

HUD's new competitive disaster resilience grant

Dennis noted that this grant competition is tied to federal funding provided due to Superstorm Sandy. HUD has about \$1 billion in unspent Sandy money being made available via this grant. The White House decided to make about this \$800 million of this available outside of the area affected by Sandy. Dennis noted a very condensed timeline that includes a two-year performance period and three application phases.

Dennis said that HUD "drills-down" in ways different from FEMA, and that HUD is concerned with impoverished communities and unmet disaster needs. Dennis thinks we will end-up with very few eligible sub-applicants in Oregon. Dennis noted the partnership we have with DLCD and asked Chris to talk about eligibility determination, which Chris called "pretty constricted." DLCD is doing outreach in levee-affected communities.

The first phase is between September 17 and November 3 – during the first phase HUD will decide which sub-applicants are eligible; the state will submit a letter to HUD (a 45-day letter) – it isn't clear right now which state agency is going to send the letter. The second phase runs through March 2015, this will be a public process that could result in a sub-applicant being deemed not eligible. The third phase is project development and implementation.

There are 48 states that had disasters that make these states eligible to apply. HUD expects a total of 62 applicants to include other pre-identified areas and territories.

Dennis noted that the Reedsport levee has lost its FEMA certification. DLCD and OEM have been working with Reedsport to figure-out if HUD is likely to deem the city eligible.

Yumei asked how we are going to meet the requirement that "at least 100 homes were damaged (impacted?)." Dennis noted that this is a real challenge; we may not be able to meet this. Josh noted that the program requires that the impact must still exist. Matt noted that this program is really for recovery, not resilience. Dennis agreed that the intent is to build resilience into recovery, but the funding is really tied to recovery.

January 15, 2015, Agenda #8, as drafted

Update on HUD National Disaster Resilience Competition (NDRC)

Dennis led this update, noting that \$800+ million is available to 67 eligible entities: 48 states, Washington DC, and some number of designated counties. In Oregon, OEM is working on this initiative with the Governor's Office and several other state agencies. Right now we are assessing threshold eligibility per HUD criteria for three target areas: Reedsport, Seaside, and Brookings. In addition to meeting threshold criteria – which gets one's foot in the door – we also need to think about projects that could be proposed via a robust public consultation process.

Dennis then mentioned that next week in Seattle, the Rockefeller Foundation is hosting a workshop on this grant competition; Reedsport, Seaside, and Brookings all plan to participate. Dennis said that when compared with FEMA funding, this HUD funding is significantly more robust.

ROSTER OF THE STATE INTERAGENCY HAZARD MITIGATION TEAM, PAGE ONE

state agency	representatives	time in	time out	telephone	email
University of Oregon * Emergency Management * Oregon Partnership for Disaster Resilience	André LeDuc Josh Bruce Alt: Michael Howard			541-346-5833 541-346-7326 541-346-8413	leduc@uoregon.edu jdbuce@uoregon.edu mhoward@uoregon.edu
DAS * Chief Financial Office (CFO) * EGS, Risk Management (RM) * GEO	Bret West Alice Wiewel Alt: Darin Brightman Alt: Daniel Christensen Alt: Bob Denouden			503-378-5526 503-378-8927 503-373-7065 503-569-8981 503-378-3157	bret.west@state.or.us alice.wiewel@state.or.us darin.w.brightman@state.or.us daniel.christensen@oregon.gov bob.denouden@oregon.gov
Oregon Department of Agriculture	Ryan Scholz Alt: Margaret Matter Alt: Jim Johnson			503-986-6680 503-986-456 503-986-4706	rscholz@oda.state.or.us mmatter@oda.state.or.us johnson@oda.state.or.us
DCBS Building Codes Division	Jerod Broadfoot Alt: Richard Rogers			503-378-4472	jerod.broadfoot@state.or.us richard.rogers@state.or.us
DCBS Insurance Division	Tracie Weeder Alt: Kevin Jeffries Alt: Cece Newell			503-847-7244 503-847-7238 503-847-7203	tracie.a.weeder@state.or.us kevin.p.jeffries@state.or.us cece.newell@state.or.us
Dept. of Environmental Quality	Don Pettit Alt: Michael Zollitsch			503-229-5373 503-229-6931	pettit.don@deq.state.or.us michael.j.zollitsch@state.or.us
Office of State Fire Marshal	SFM Jim Walker Alt: Terry Wolfe			503-934-8209 503-934-8245	jim.walker@state.or.us terry.wolfe@state.or.us
Oregon Dept. of Fish & Wildlife	Joy Vaughan Alt: Art Martin			503-847-6069 503-847-6062	joy.r.vaughan@state.or.us art.c.martin@state.or.us
Oregon Department of Forestry	Cindy Kolomechuk Alt: Tom Fields Alt: Nick Yonker			503-845-7444 503-845-7440 503-845-7448	ckolomechuk@odf.state.or.us tom.fields@state.or.us nick.j.yonker@state.or.us
Department of Geology and Mineral Industries	Vicki McConnell Alt: Andree Pollock Alt: Jed Roberts Alt: Yumei Wang			971-673-1550 971-673-1541 971-673-1546 971-673-1551	vicki.mcconnell@dogami.state.or.us andree.pollock@dogami.state.or.us jed.roberts@dogami.state.or.us yumei.wang@dogami.state.or.us
Oregon Health Authority * State Public Health Division	Mike Harryman Alt: Jene High Alt: Collette Young			971-673-1320 971-673-0199 971-673-1111	mike.harryman@state.or.us jene.high@state.or.us collette.m.young@state.or.us

as of February 12, 2015

ROSTER OF THE STATE INTERAGENCY HAZARD MITIGATION TEAM, PAGE TWO

state agency	representatives	time in	time out	telephone	email
Dept. of Land Conservation and Development	Matt Crall Alt: Chris Shirley Alt: Steve Lucker Alt: Marian Lahav Alt: Lisa Corby Alt: Jeff Weber			503-373-0050 x272 x250 x269 x230 x276 971-673-0964	matthew.crall@state.or.us christine.shirley@state.or.us stephen.lucker@state.or.us marian.lahav@state.or.us lisa.corby@state.or.us jeff.weber@state.or.us
Department of State Lands	Bill Ryan Alt: Jim Paul			503-986-5259 503-986-5279	bill.ryan@state.or.us jim.paul@state.or.us
Oregon Military Department * Office of Emergency Management	Dennis Sigrat Alt: Joseph Murray Alt: Erik Rau Alt: Althea Rizzo Alt: Daniel Stoelb			503-378-2911x22247 x22240 x22252 x22237 x22234	dennis.j.sigrat@state.or.us joseph.murray@state.or.us erik.rau@state.or.us althea.rizzo@state.or.us daniel.stoelb@state.or.us
Oregon Parks and Recreation Department	John Allen Alt: Tony Stein			541-994-8152 541-867-3340	john.allen@state.or.us tony.stein@state.or.us
Public Utility Commission	Lori Koko Alt: Rick Carter			503-378-8225 503-378-9631	lori.koko@state.or.us rick.carter@state.or.us
Oregon Department of Transportation	Greg Elk-Collins Alt: Darin Weaver			503-986-3020 503-986-6613	john.g.elk-collins@odot.state.or.us darin.a.weaver@odot.state.or.us
Water Resources Department	Alyssa Mucken Alt: Ken Stahr			503-986-0911 503-986-0838	alyssa.m.mucken@state.or.us kenneth.l.stahr@state.or.us
other interested parties					
Business Oregon - IFA	Paulina Layton Alt: Gloria Zacharias			503-986-0136 503-986-0132	paulina.layton@biz.state.or.us gloria.zacharias@biz.state.or.us
Federal Emergency Management Agency, Region Ten	Andrew Hendrickson Alt: Jeff Markham Alt: Brandon Sweeza Alt: Kristen Meyers Alt: Brett Holt			425-487-4784 425-248-7953 425-287-2022 425-487-4543 425-487-4553	andrew.hendrickson@dhs.gov jeffrey.markham@dhs.gov brandon.sweeza@fema.dhs.gov kristen.meyers@dhs.gov brett.holt@dhs.gov
U.S. Army Corps of Engineers	Julie Ammann			503-808-6874	julie.h.ammann@usace.army.mil
U.S. Environ. Protection Agency	Eric Martenson			503-326-3275	martenson.eric@epa.gov
U.S. Geological Survey	Tom Carlson			253-552-1682	tcarlson@usgs.gov
Oregon Earthquake Awareness	James Bela			503-791-3539	saquake@access-fless.net
BPriest Environmental Consulting	Barbara Priest			503-539-3434	bpriest@evestate.net

as of February 12, 2015

Umpqua Bank
1 SW Columbia
Portland, OR 97258



Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and Umpqua Bank to collaborate, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

Umpqua Bank has been proudly headquartered in Oregon since its founding more than 60 years ago. It has over 4,800 associates in more than 350 stores across five western states, with 121 stores right here in Oregon. The bank is heavily involved in all the communities it serves, including the cities of Brookings and Reedsport.

In the event funds are awarded through the CDBG-NDR program, Umpqua Bank will partner with Oregon coast communities to connect community members to a variety of Umpqua's programs, products and services, including application procedures to access grants through the Umpqua Community Foundation.

It is understood that this is letter is only an expression of our intent to identify programs in which Umpqua can be a partner should CDBG-NDR funds be awarded. The breadth and depth of Umpqua's involvement is dependent on the details of the programs being implemented.

Sincerely,

A handwritten signature in cursive script that reads "Cara L. Coon".

Cara L. Coon, VP Government and Civic Relations Director
Umpqua Bank

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



Umpqua Soil and Water Conservation District
PO Box 415
Reedsport, Oregon 97467
rhonda@umpquasoilandwater.com

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and Umpqua Soil and Water Conservation District to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The Umpqua Soil and Water Conservation District provides assistance to any individual, group, or agency in fostering cooperation for stewardship of natural resources in the Lower Umpqua River Basin. Umpqua Soil and Water Conservation District was formed in 1953 and has served the local area for 62 years governed by a publicly elected seven member board of directors representing five zones within the Umpqua Soil and Water Conservation District boundaries and two at-large positions. Umpqua Soil and Water Conservation District receives guidance and oversight from the Oregon Department of Agriculture. As a public body, Umpqua Soil and Water Conservation District has close working relationships and agreements with federal, tribal, state and local agencies as well as a variety of citizen and watershed groups.

The proposed partnership role consists of Umpqua Soil and Water Conservation District providing technical assistance for a variety of natural resource concerns including erosion control to enhance and preserve ground water quality and quantity and improve watershed health while promoting protection and enhancement of fish and wildlife habitat. In areas where agriculture is a consideration, Umpqua Soil and Water Conservation District will provide assistance with agriculture water quality best management practices. Point source and non-point source pollution prevention education is also a concern.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

A handwritten signature in blue ink that reads "Rhonda Black".

Umpqua Soil and Water Conservation District
Rhonda Black
District Manager/Conservation Technician

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

Soil*Water*Pasture*Woodlands*Fish*Streams*Wildlife
Telephone: (541) 662-1341, Fax: (888) 331-4348, Email: rhonda@umpquasoilandwater.com
On the Web at www.umpquasoilandwater.com

SUZANNE BONAMICI
1st District, Oregon

439 CANNON HOUSE OFFICE BUILDING
WASHINGTON, DC 20515
TELEPHONE: 202-225-0855
FAX: 202-225-8407

12725 SW MILLIKEN WAY, SUITE 220
BEAVERTON, OR 97005
TELEPHONE: 503-469-6010
TOLL FREE IN 1ST DISTRICT: 800-422-4003
FAX: 503-469-6018

<http://Bonamici.house.gov>

Congress of the United States
House of Representatives
Washington, DC 20515-3701

COMMITTEE ON EDUCATION
AND THE WORKFORCE
SUBCOMMITTEES:
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WORKFORCE PROTECTIONS
COMMITTEE ON
SCIENCE, SPACE, AND TECHNOLOGY
SUBCOMMITTEES:
ENVIRONMENT, PLANETARY PROTECTION
SPACE

March 9, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047

Re: Letter of Support

Dear Ms. Moawad:

This letter is to express my strong support for the State of Oregon's application to the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) Competition.

Oregon's coastal areas face a variety of natural hazards, including wind storms, flooding, and landslides. Oregonians also face the complicated task of preparing for an inevitable magnitude 9 Cascadia earthquake off our coast, an event on a scale of which Oregon, and indeed our nation, has not experienced for centuries. It is critical that Oregon's communities have the resources and support they need to be able to prepare for, respond to, and recover from such disasters.

This proposal seeks to design and implement a "Rural Resilience Incubator Process" to assist rural communities in identifying actionable ways to build local hazard resilience. Communities will be supported by the Governor's Resilience Cabinet and its many partners, and will be able to engage technical expertise to better understand the hazards they face and the financial programs that might be available to resolve problems. These efforts will protect life, housing, commercial buildings, and other assets.

These proposed activities will lead to improved resilience throughout the state. The incubator process will include a "knowledge bank" so that efforts can be transferable and scalable to benefit others, including the communities I represent along Oregon's north coast. The value of such information and support cannot be overstated.

Thank you for your work to improve hazard resilience in Oregon. I look forward to hearing about your progress.

Sincerely,

A handwritten signature in blue ink that reads "Suzanne Bonamici". The signature is written in a cursive, flowing style.

Suzanne Bonamici
Member of Congress

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



SONNY ASTANI DEPARTMENT OF CIVIL AND ENVIRONMENTAL ENGINEERING
Amy E. Childress
Professor and Director of Environmental Engineering

December 12, 2014

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047

Re: Intent to Participate

Dear Ms. Moawad:

This letter is to confirm the intent of the University of Southern California, Sonny Astani Department of Civil and Environmental Engineering to collaborate with the State of Oregon on eligible activities as proposed in the State of Oregon's Community Development Block Grant - National Disaster Resilience (CDBG-NDR) application. This collaboration is contingent upon the award of funds from the United States Department of Housing and Urban Development for the CDBG-NDR competition.

Specifically, our Department would be interested in partnering with the State of Oregon and the City of Brookings on the possible development of an innovative reverse osmosis-pressure retarded osmosis (RO-PRO) water treatment facility that would fulfill the needs of the Brookings Harbor Community for a resilient domestic water supply. Our environmental engineering program is actively involved in research associated with advanced technologies for water treatment, water reclamation/reuse, and removal of endocrine disrupting chemicals. Our research efforts are directed at development of sustainable technologies, experiment-based mathematical modeling, and environmental nanotechnology. Most recently, we are partnering with Humboldt State University in California to develop a portable, prototype RO-PRO system in Samoa, California, which would lower the cost of desalination and reduce its impact on the environment. This technology could be a good fit for coastal communities like Brookings whose historic water sources of supply are now impacted by drought and climate change conditions, and are vulnerable to tsunami impacts.

Furthermore, this collaboration can include the USC Tsunami Research Center (TRC), which is actively involved with all aspects of tsunami research including inundation field surveys; numerical and analytical modeling; and hazard assessment, mitigation and planning. TRC has developed tsunami inundation maps for California and the tsunami code MOST, now used by NOAA. MOST is the only validated code used in the U.S. for tsunami hazard mapping with detailed inundation predictions. TRC has surveyed most "modern" tsunamis since 1992.

It is understood that this is letter is only an expression of our intent to collaborate should CDBG-NDR funds be awarded.

Sincerely,

A handwritten signature in cursive script that reads "Amy Childress".

Amy Childress
Professor and Director of the Environmental Engineering Program
Department of Civil and Environmental Engineering

University of Southern California
Kaprielian Hall #68B, 3600 South Vermont Ave., Los Angeles, California 90089-0631 • Tel: 913 740 6304 • Fax: 913 754 0906 •
amyec@usc.edu • ceo.usc.edu





Advanced Research Institute
Virginia Tech Research Center
900 N. Glebe Road
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E-mail: ari-info@vt.edu

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and the Advanced Research Institute (ARI) of Virginia Tech (Virginia Polytechnic Institute and State University) to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

The Disaster Risk Reduction Program of VT ARI has extensive experience in the development of cost-effective and non-intrusive methods for the integrated incremental seismic retrofit of vulnerable existing buildings and for the assessment of critical infrastructure interdependencies and resilience. ARI is a leading source of research and consulting advice on electric power system design for disaster resilience and sustainability. If the opportunity should arise, VT ARI is prepared to provide consultation and training for relevant stakeholders (local building officials, building owners and relevant professionals) on the process of integrated incremental seismic retrofit and to provide analysis of critical infrastructure resilience (energy, transportation, water/wastewater and communications sectors) for the localities under consideration. It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.

Dr. Frederick Krimgold

Director, DRR
Virginia Tech Advanced Research Institute
Arlington, Virginia USA
Virginia Tech
Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)

Invent the Future

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY
An equal opportunity, affirmative action institution



February 20, 2015

Heidi Moawad
Office of the Governor
Public Safety & Human Services Policy Advisor
254 State Capitol
Salem, Oregon 97301-4047
(503) 986-6550
Heidi.Moawad@oregon.gov

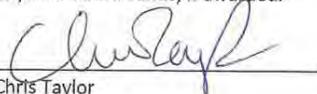
Re: Intent to Participate

This letter is to confirm the mutual intent of both the State of Oregon and the West Coast Infrastructure Exchange to collaborate and enter into a partner agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition, to carry out eligible activities as provided in the State of Oregon's CDBG-NDR application.

California, Oregon, Washington and British Columbia have combined to form the West Coast Infrastructure Exchange (WCX). The partnership is being launched to develop innovative new methods to finance and facilitate development of the infrastructure needed to improve the region's economic competitiveness, support jobs and families, and enhance our shared quality of life, including by building resilience to Cascadia earthquakes and other natural hazards.

WCX would assist Oregon's rural communities, including Reedsport and Brookings, by serving as a statewide resource for drinking and wastewater infrastructure resilience best practices. WCX is currently researching such practices, with the intent of creating a guidebook of key water sector resilience practices by the end of 2015. This guidebook will be freely available. It will be especially useful to small and rural jurisdictions, such as Reedsport and Brookings, which frequently lack the capacity to undertake such research themselves.

It is understood that this letter is only an expression of our intent and a binding partner agreement detailing the terms and conditions of the proposed partnership must be executed before the use of any CDBG-NDR funds, if awarded.


Chris Taylor
Executive Director

Cc: Alice Wiewel, DAS CFO, State Architect (Alice.Wiewel@oregon.gov)
Yumei Wang, DAS CFO, Resilience Engineer (Yumei.Q.Wang@oregon.gov)



February 27, 2015

Willdan Homeland Solutions
Attn: James E. Bailey
2401 E. Katella Ave, STE 300
Anaheim, CA 92806

Gary Milliman
City Manager
City of Brookings
898 Elk Drive
Brookings, OR 97415

Re: Intent to Participate

Dear Mr. Milliman,

This letter is to confirm the mutual intent of both City of Brookings, Oregon and Willdan Homeland Solutions to collaborate and enter into an agreement, contingent upon the award of funds from the United States Department of Housing and Urban Development for the Community Development Block Grant National Disaster Resilience (CDBG-NDR) competition.

Willdan Homeland Solutions (Willdan), a division of the Willdan Group, a \$120 million engineering and professional services firm with offices across the nation, is a preeminent provider of homeland security, public safety, resilience planning, and emergency management services that focus on integrating local resources and assets within state and federal systems. Since our inception in 2004, we have offered critical incident management training and education through a variety of courses taught by subject matter experts; design and delivery of complex, regionally-focused exercises; site analysis and risk assessment; planning and hazard mitigation support; interoperable communications planning; and public safety management consulting services to public safety, emergency management, public health, Urban Areas Security Initiatives (UASIs), and public agencies. Willdan was founded on the concept of delivering quality emergency preparedness planning and training services for Federal, State, and local clients.

The act of writing an emergency plan serves as a catalyst for improved safety and security to reduce the risk of an emergency or disaster. The professionals at Willdan have extensive hands-on experience and offer services in reviewing, evaluating, designing, and implementing a multitude of public works and emergency plans to include: Hazard Mitigation, Continuity of Operations Plans, Business Continuity, Recovery, and Emergency Operations Plans.

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714.940.6300 | 800.424.9144 | fax: 714.940.4920 | 2401 East Katella Avenue, Suite 300, Anaheim, CA 92806-6073 | www.willdan.com

Illustrative of our resiliency planning capabilities is provided below:

Los Angeles County Hazard Mitigation Plan Update

Willdan was selected to update the Los Angeles County's Hazard Mitigation Plan (HMP) and design and conduct emergency exercises for the County Office of Emergency Management. The Willdan Team utilized the County's existing HMP as the foundation upon which to construct the updated version.

Specific tasks and actions included:

- ✓ Reviewed the 2005 LHMP, and updated the plan conforming with new requirements identified in FEMA's Local Multi-Hazard Mitigation Planning guidance dated July 1, 2008;
- ✓ Conducted advisory committee and subcommittee meetings to develop mitigation action items and non-mitigation items;
- ✓ Conducted Town Hall meetings for the public to present the plan and receive input for the plan update;
- ✓ Reviewed and updated previous mitigation action items and removed items that had already been accomplished;
- ✓ Drafted the updated HMP and submitted the plan for review and approval

The Willdan Team also met regularly with the County's Planning Advisory Committee to discuss mitigation and resiliency strategies, capture and prioritize new action items, and review the draft plan. This project was completed on schedule, within budget, and to the satisfaction of both FEMA and Los Angeles County client.

Compton Creek and Dominguez Channel Flood Risk Mitigation Alternatives Study

Willdan is completing the Compton Creek and Dominguez Channel Flood Risk Mitigation Alternatives Study (Alternatives Study). The main objective of the Alternatives Study is to mitigate increased flood risks identified along Compton Creek and Dominguez Channel by identifying, analyzing, and ranking potential alternative projects to address hydraulic deficiencies indicated by the Federal Emergency Management Agency's (FEMA) Title 44, Code of Federal Regulations, Part 65, Section 10 (Title 44) levee freeboard requirements. In addition, the Alternatives Study analyzes combinations of alternative solutions that address the flood control issues and incorporate multi-use benefit components that improve water conservation, **enhance** water quality and habitat, and provide recreational opportunities.

In general, the Alternatives Study includes the following elements:

- ✓ Identification of alternatives with assistance from an advisory committee;
- ✓ Analysis of the identified alternatives to determine feasibility of mitigating the flood risks;
- ✓ Cost benefit analysis;
- ✓ Schedules for implementing the alternatives;

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- ✓ Optimization of combined alternative solutions;
- ✓ Community outreach to garner Stakeholder support;
- ✓ Ranking of alternative solutions that will mitigate the increased flood risks along the affected reaches of Compton Creek and Dominguez Channel.

Willdan is identifying potential alternatives with assistance from an Advisory Committee (AC) assembled by the County. Willdan is compiling, documenting, and presenting the identified alternatives to mitigate the flood risks associated with the Channel and stakeholder concerns.

The analysis of the alternatives includes a Hydrology/Hydraulic Analysis using HEC-1, HEC-HMS, Rational, and Modified Rational (MODRAT) modeling, analysis of regulatory permit requirements, analysis of constructability and construction constraints, estimate of probable construction costs and phasing, analysis of environmental impacts, analysis of maintenance requirements, environmental site assessment, analysis of environmental impacts, analysis of maintenance requirements, environmental site assessment, analysis of right-of-way and easement requirements, analysis of multi-use opportunities, and analysis of costs and benefits.

Willdan designed and implemented a community outreach program that included reaching out to elected officials from the impacted cities and public agencies to determine their position on this Flood Risk Mitigation project, and to identify project “champions.” Willdan researched public opinion, and conducted opposition research in order to identify and determine reasons behind any opposition or negative opinions. This research focused primarily on communities adjacent to project sites. Willdan examined similar past project work and implemented the lessons learned for this project.

The Willdan commitment also includes the capabilities of its affiliate, [The Security and Sustainability Forum](#) (SSF), a public interest organization that conducts educational programs and holds research forums on approaches to address the impacts to society from extreme events that disrupt social systems. SSF brings particular expertise in adaptation focusing on the built environment, water and energy, governance and economic vitality.

SSF is currently hosting three forums relevant to the NDRC that includes planning resilient approaches to flooding and wildfires, among other threats.

1. In a global project with Arizona State University (ASU) and the National Geospatial Intelligence Agency to bring geo intelligence models and tools into disaster planning and response. Researchers from Argonne, Oak Ridge and Pacific Northwest National Labs are part of the research program.
2. A series on Resilient Cities with ASU is unveiling an advanced structure for resiliency planning based on Social, Ecological and Technological Systems. SETS provides a framework that integrates the critical systems and clarifies decision making.
3. In a series focused on adaptation to weather events with Antioch University and EPA, SSF is providing explicit guidance to local officials to upgrade infrastructure and change management practices to better accommodate flooding and also has addressed the

application of new models for coastal storm surge adaptation that helps communities come to judgment on decisions on how to apply resources to protect public assets.

SSF brings a network of global experts who can assist recipients and the State to apply the best technologies and planning to develop projects that maximize HUD housing goals, create jobs and promote economic vitality by lowering the risk from natural events to the built environment and public welfare, and use an evaluation framework to establish performance metrics to document the value of the project investments.

Willdan will partner with the City of Brookings to provide a variety of professional services commensurate with the NDRC objectives and Phase I & II activities. More specifically, Willdan can assist with the following:

1. *Broadly engage with the community and consult with experts to identify the most impacted communities, unmet recovery needs, and revitalization objectives.* Willdan will provide professional consulting services to assist with community outreach, data collection, and hazard mitigation analysis and assessment. We will strive to assist the State with the identification of the most impacted communities, unmet recovery needs, and revitalization objectives.
2. *Discover the most significant vulnerabilities and future risks facing the affected communities using the best available science and data.* Willdan will provide professional consulting services to conduct hazards identification, vulnerability assessments, and develop mitigation strategies to identify and diminish the most significant vulnerability and risks facing the affected communities. Moreover, our affiliate, The Security and Sustainability Forum (SSF), will leverage its capabilities through ASU, National Geospatial-Intelligence Agency, and the National Laboratories to bring geospatial intelligence models and tools into disaster planning and response.
3. *Engage potential public and private partners.* Willdan will provide professional consulting services to assist with the identification of public and private partners and stakeholders, integration of the public and private partners into community resilience activities, and the provision of outreach services to ensure public and private partners are aware of Phase II activity opportunities.
4. *Commit to actions that permanently increase community resilience.* Willdan will provide professional consulting services to permanently increase community resilience. These efforts will include support to building code updates, hazard mitigation plan updates, development of continuity of operations plans for government and critical infrastructure facilities, development of disaster recovery plans, and the consolidation of disparate emergency plans.

It is understood that this letter is only an expression of mutual intent and is nonbinding. A binding agreement detailing the terms and conditions of the proposed relationship must be executed before the use of any CDBG-NDR funds, if awarded.

Sincerely,



James E. Bailey
President and CEO

Attachment E: Maps, Drawings and Data Sources

State of Oregon

AttachmentEMapsDrawingsDataSources.pdf

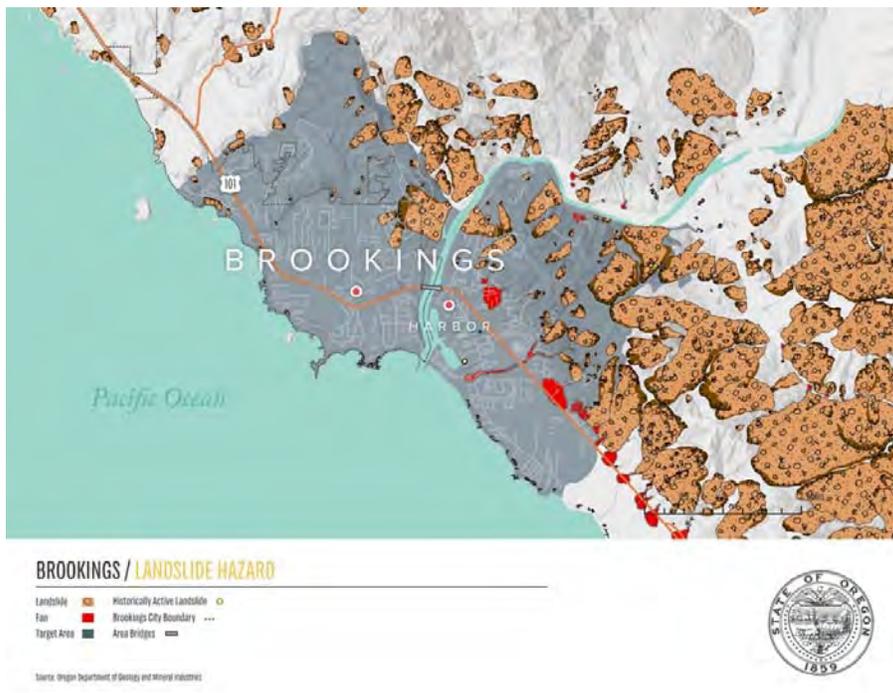
Attachment E: Maps and Data Sources

MAPS

Brookings/FEMA Flood Hazard



Brookings Landslide Hazard



Brookings Tsunami Evacuation Map

The Oregon Department of Geology and Mineral Industries mapped tsunami flooding hazards from the local Cascadia tsunami as shown in both orange and yellow. Distant tsunami hazards, which would not extend as far inland as a local tsunami, are depicted in orange.



Brookings Tidal Event Influence

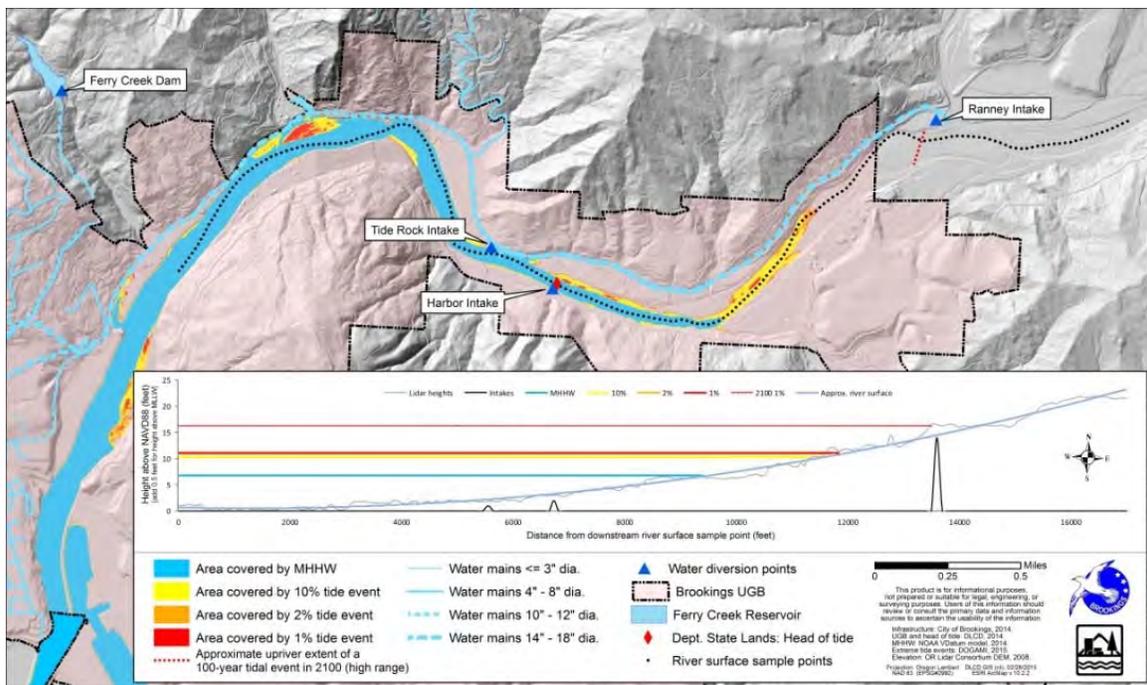
This figure shows the upstream extent of the tidal event influence.



Brookings Water Supply

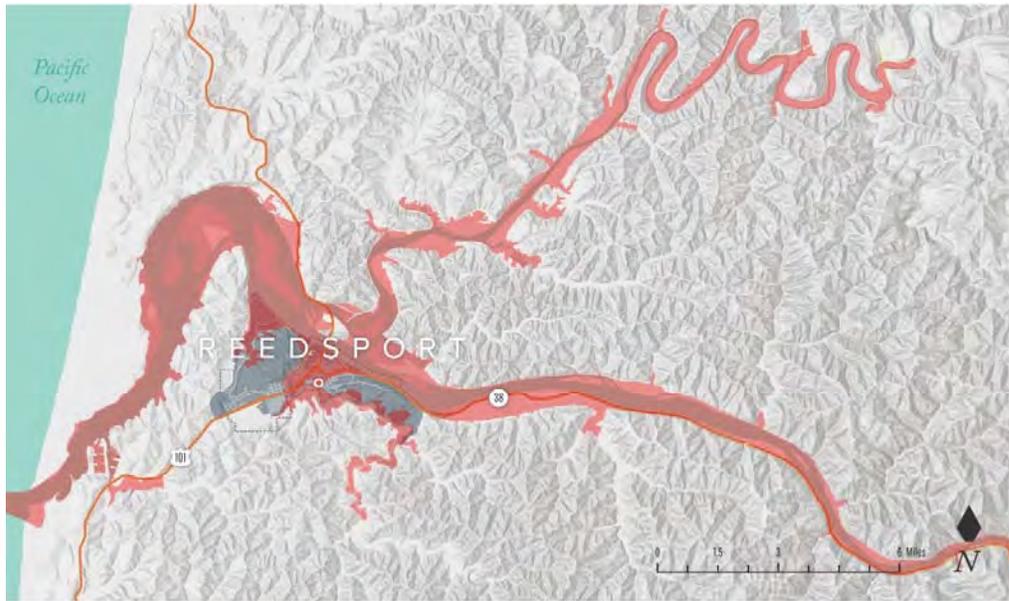
Brookings tidal influence contaminates water supply with salt water. During high tides and low river water flows, the surface water intakes along the Chetco River are contaminated with salt water. This graphic shows the extent of certain tides in bird’s eye view and cross section. The blue polygon on the map corresponds to the horizontal blue line in the graph and represents the extent (or height) of mean higher high water (MHHW) at the present time. The yellow, orange, and red polygons / lines similarly show the extent of tidal events likely to occur once every 10, 50, and 100 years, (or 10%, 2% and 1%) respectively. The dotted red line on the map and the graph indicates the predicted extent of a 100-year tide event in 2100.

- 10% tide event line is likely to be exceeded only 10 times per century; 10.24 ft,
- 2% tide event line is likely to be exceeded only 2 times per century; 10.89 ft,
- 1% tide event line likely to be exceeded only 1 time per century; 11.12 ft,
- MHHW – mean higher high water; 6.8 ft, based on NOAA VDatum



All tide heights provided by Jonathan Allan of the Oregon Dept. of Geology and Mineral Industries (DOGAMI) and based on NAVD88.

Reedsport FEMA Flood Hazard



REEDSPORT / FEMA FLOOD HAZARD

- FEMA 100-Year Floodplain ■
- FEMA 100-Year Floodplain Target Area ■
- Brookings City Boundary - - -
- Area Bridges —

Source: FEMA, Oregon Department of Geology and Mineral Industries



Reedsport Landslide Hazard



REEDSPORT / LANDSLIDE HAZARD

- Historically Active Landslide ○
- Target Area ■
- Brookings City Boundary - - -
- Area Bridges —

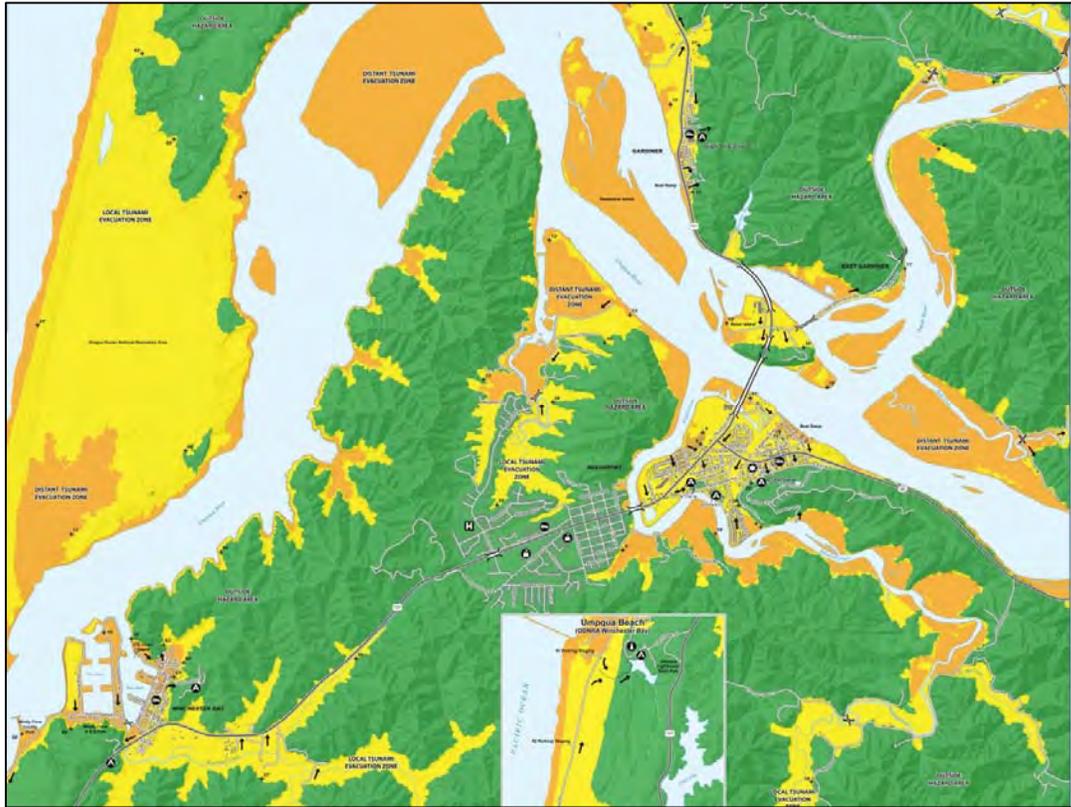
Source: Oregon Department of Geology and Mineral Industries



Reedsport Tsunami Evacuation Map

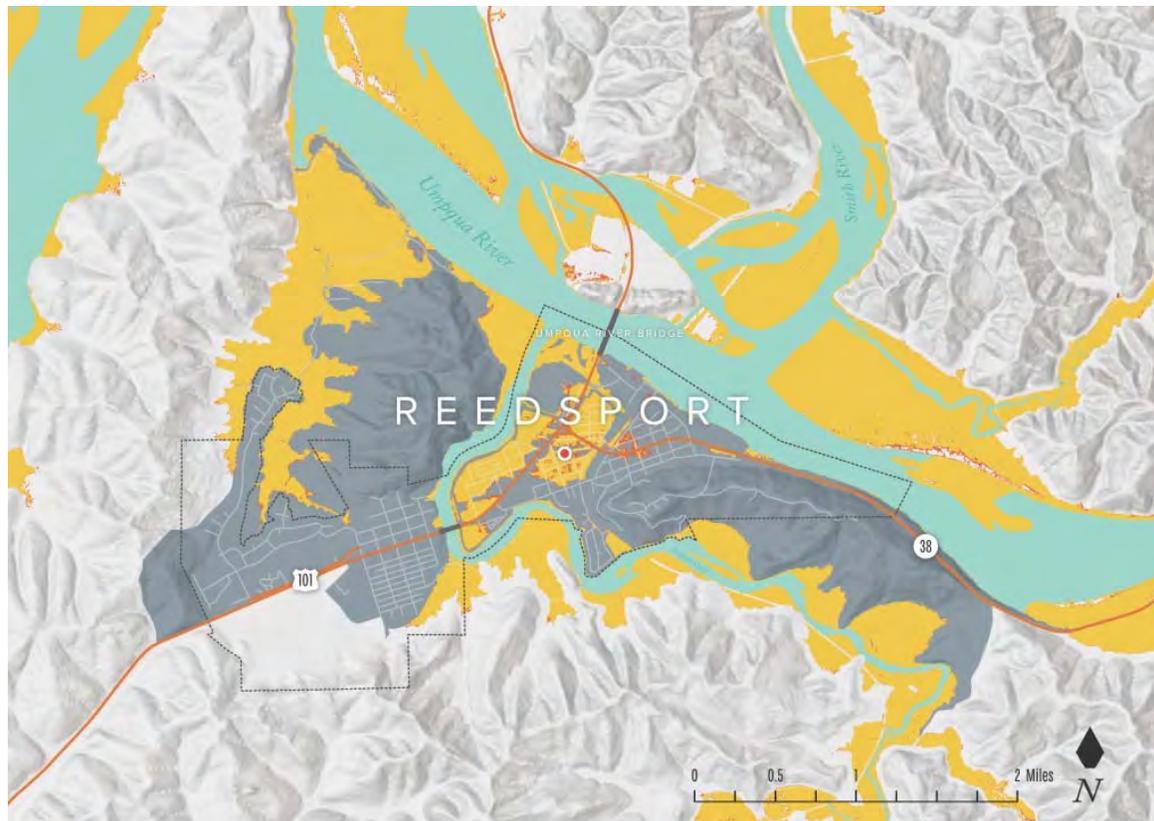
This map shows tsunami flooding hazards from the local Cascadia earthquake and tsunami as shown in yellow and orange. Distant tsunami hazards are shown in orange. Source:

DOGAMI



Reedsport Annual Extreme Tidal Event Risk

This figure shows Reedsport flood risk due to tidal events. The yellow, orange, and red polygons show the extent of tidal events likely to occur once every 10, 50, and 100 years (or 10%, 2% and 1%) respectively. The 10 year tidal event (shown in yellow) cover an extensive portion of the target area (shown in dark gray). The 50 and 100 year tidal events (shown in orange and red) only extend slightly beyond the 10 year tidal event as indicated by the minimal orange and red zones shown on the figure. The flood hazards are severe and extensive in the low lying areas of downtown Reedsport including along U.S. Highway 101.



Annual Extreme Tidal Event Risk 10% / 2% / 1% ■ Target Area Reedsport City Boundary

Reedsport Flood Hazard Maps

These images show Reedsport 100 year flood hazard for: now, 2050 and 2100, including sea level rise estimates. Levees, which are inadequate, are shown in red. In each scene, blue represents water, green non-water, and red the highest points along levees or other high land.

Note that blue areas show where water would go if allowed; it might not actually go there

because of barriers. In

the top image, the blue areas within the red line

might not be under

water because they

would likely be

protected by

surrounding levees and

uplands. Some of the

blue areas inside the red

line could be under

water due to failures in

the barriers.

Tidal heights provided

by Jonathan Allan,

DOGAMI.



Areas in blue are below 11 feet in elevation, slightly above the currently projected height of a 100-year flood event. The red line shows the levee and high land that would protect low-lying areas from inundation.



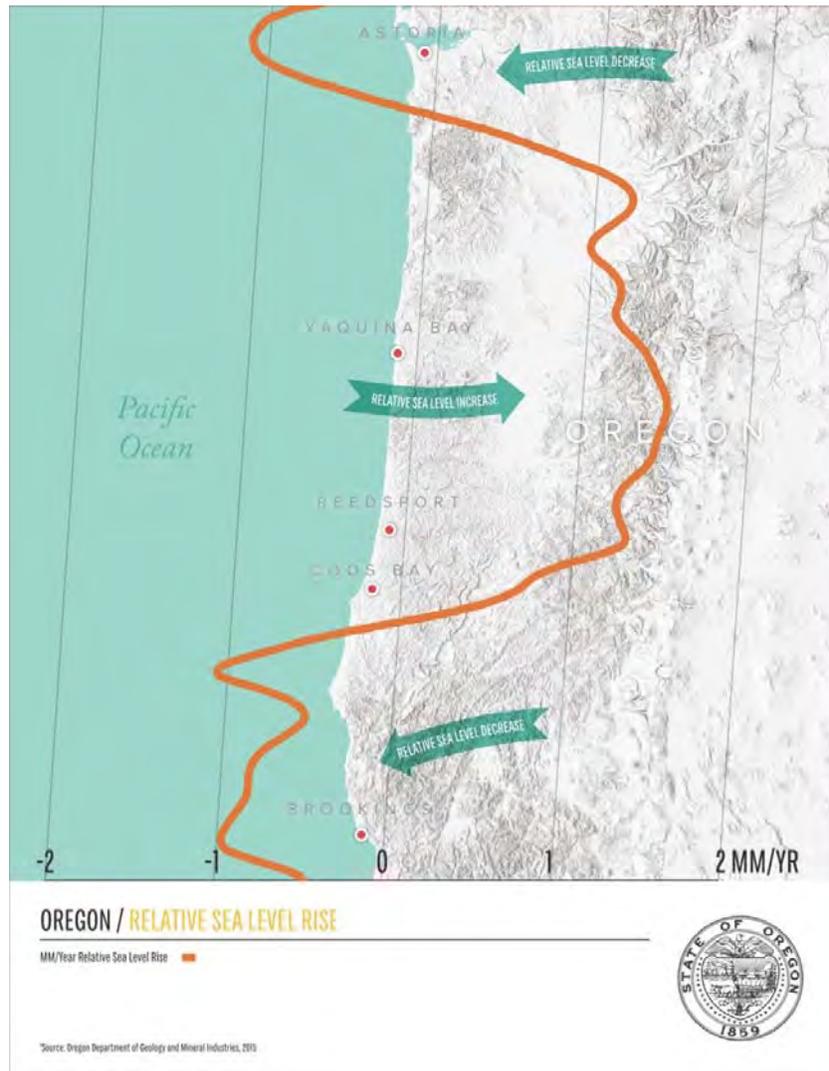
Areas in blue are below 13 feet in elevation, slightly above the projected height of a 100-year flood event in 2050. Gaps appear in the protective barrier (red line) exposing low-lying areas to potential inundation.



Areas in blue are below 15 feet in elevation, slightly below the projected height of a 100-year flood event in 2100. Large gaps appear in the protective barrier (red line) exposing low-lying areas to potential inundation.

Oregon Coastal Estimated Sea Level Rise

Estimated rates of relative sea level rise. Coastal areas west of the orange line are submerging due to sea level rise. Coastal areas east of the orange line are emerging due to the faster rate of tectonic uplift.

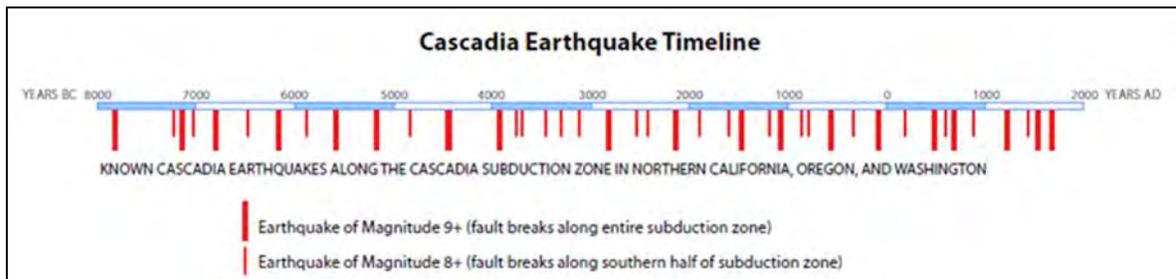


Cascadia Subduction Zone Fault



Cascadia Earthquake Timeline

The diagram shows the magnitude 8 and larger Cascadia earthquakes for the past 10,000 years. Over 40 extremely large earthquakes have struck the Oregon, which generated 40 tsunamis that flooded the coast. Source: DOGAMI, Cascadia Winter 2010



OREGON RURAL HEALTH DATA

Brookings

3/23/2015

2014 Service Area: Brookings



GEOGRAPHY

County: Curry
 Major Town: Brookings
 Service area includes the following ZIP Codes: 97415
 Major Geographic Features: Mountains: 4,700 feet; Three rivers; Ocean
 Elevation: 129

TRANSPORTATION

	to:	TYPE OF ROAD	
Miles from Brookings			
Nearest Larger Town: Gold Beach	29	Primary	
County Seat: Gold Beach	29	Primary	
Nearest Hospital: Crescent City, CA	26	Primary	

Special Transportation Barriers: Mountains, Fog, Gravel Roads
 Systems: Curry Public Transit; Curry Transit Dial a Ride

WEATHER

Climate Zone The Coast, Coastal Range
 Average Temperature (Winter): 47
 Average Temperature (Summer): 59

DEMOGRAPHY (Nielsen 2015)

	Population	% Change	% Change RURAL	% Change URBAN	% Change OREGON
2000	13,242	n/a	n/a	n/a	n/a
2010	14,019	5.9%	9.0%	13.8%	12.0%
2015	13,942	-0.5%	2.0%	4.8%	3.8%
2020	14,040	0.7%	2.7%	4.6%	3.9%

CHANGE FROM 2010 TO 2015

Age	2010 Pop	2015 Pop	% Change	% Change RURAL	% Change URBAN	% Change OREGON
0-14	1,926	1,915	-0.6%	-2.7%	1.2%	-0.2%
15-44	3,669	3,725	1.5%	1.9%	2.0%	1.9%
45-64	4,478	4,001	-10.7%	-3.0%	3.9%	1.2%
65+	3,946	4,301	9.0%	15.6%	22.5%	19.5%
Total	14,019	13,942	-0.5%	2.0%	4.8%	3.8%

OREGON OFFICE OF RURAL HEALTH

3/23/2015

2014 Service Area: Brookings

DEMOGRAPHY (Nielsen 2014 - continued)

2015 POPULATION BREAKDOWN BY AGE

Age	Service Area				OREGON			
	Male	Female	Total	Percent	Male	Female	Total	Percent
0-14	982	933	1,915	13.7%	366,024	349,575	715,599	18.0%
15-20	441	390	831	6.0%	158,712	150,914	309,626	7.8%
21-24	274	226	500	3.6%	108,406	102,395	210,801	5.3%
25-34	575	567	1,142	8.2%	268,672	262,558	531,230	13.4%
35-44	625	627	1,252	9.0%	257,388	252,377	509,765	12.8%
45-64	1,896	2,105	4,001	28.7%	521,070	540,329	1,061,399	26.7%
65-74	1,162	1,252	2,414	17.3%	180,342	196,228	376,570	9.5%
75-84	630	689	1,319	9.5%	78,684	98,240	176,924	4.5%
85+	232	336	568	4.1%	29,497	53,724	83,221	2.1%
Total	6,817	7,125	13,942	100.0%	1,968,795	2,006,340	3,975,135	100.0%

OTHER POPULATION CHARACTERISTICS (Nielsen 2015)

	Service Area	Oregon
Hispanic (all, including other and 2 or more, races)	8.1%	12.7%
Asian/Pacific Islander only (non-Hispanic)	0.9%	4.4%
African-American only (non-Hispanic)	0.6%	1.8%
Native American only (non-Hispanic)	2.1%	1.1%
Other, including 2 or more races (non-Hispanic)	2.8%	3.3%

SOCIOECONOMICS (2009 - 2013 American Community Survey)

	Service Area	County	Rural	Oregon
Population below Poverty Level (\$19,055 per year for 2 adults/1 child <18 in 2014)	11.4%	15.0%	16.9%	16.2%
Population below 200% of Poverty Level	40.9%	41.6%	39.6%	36.2%
Population <18 below Poverty Level	12.4%	20.0%	24.2%	21.7%
Population 16+ Unemployed	8.8%	7.4%	7.2%	7.1%
Population 18-64 with Disability	19.1%	21.8%	14.5%	11.6%
Population 65+ with Disability	38.5%	42.4%	39.4%	37.7%
Households receiving Cash Public Assistance	3.6%	4.9%	3.8%	3.8%
Population 25+ w/o High School Diploma	6.0%	6.7%	8.0%	6.6%
Population >5 who Speak English Less than "very well"	0.9%	0.9%	4.2%	6.2%
Uninsured Civilian Non-institutionalized Population	17.6%	16.8%	16.76%	15.8%
Total OHP Eligibles (DMAP, January 2015)	27.4%	29.1%	30.3%	27.5%

OREGON OFFICE OF RURAL HEALTH

3/23/2015

2014 Service Area: Brookings

SOCIOECONOMICS (various)

	County	Oregon
Receiving Temporary Assistance for Needy Families (3/2014)	0.8%	1.8%
Children Eligible for Free/Reduced Lunch (13-14 School Yr)	64.1%	51.7%
Receiving Food Stamps (3/2014)	20.9%	20.2%
Government Employees as % of Total Employment (7/2013)	17.5%	15.9%
No Health Insurance (2012 Census Small Area Health Ins Est)	18.7%	17.4%

UNEMPLOYMENT RATES

	County	Oregon	U.S.
1990	6.4%	5.5%	5.6%
2000	6.3%	4.9%	4%
2012	11.6%	8.7%	8.1%

Per Capita Income, 2013	\$34,675	\$39,848	\$44,765
Median Household Income, 2012	\$34,854	\$49,090	\$51,371

VITAL STATISTICS (Oregon Health Authority)

Maternity Characteristics		2009-2013 (Avg per year--rates per 1000 births)						
		TOTAL	Race				Ethnicity	
			White	Black	NatAm	Asian	Other	Hispanic
S E R V I C E A R E A	Average Total Births per Year	120	95.2	0.2	4.4	1.0	7.0	12.4
	Low Birth Weight Rate	66.4	63.0	0.0	181.8	0.0	0.0	96.8
	Inadequate Prenatal Care Rate	66.4	63.0	1000.0	136.4	0.0		80.6
	Infant Mortality Rate	6.6						
	Teen (15-19) Birth Rate	73.1	75.6	1000.0	90.9	0.0		16.1
O R E G O N	Average Total Births per Year	45,623	31,174	933	551	2426	1501	8,922
	Low Birth Weight Rate	62.4	59.7	104.6	76.6	77.4	69.8	61.6
	Inadequate Prenatal Care Rate	54.5	46.7	91.5	106.4	71.6		66.3
	Infant Mortality Rate	4.9						
	Teen (15-19) Birth Rate	70.9	57	100	126	19		134

*Race numbers do not add up to total due to rounding and noninclusion of "unknown" race

OREGON OFFICE OF RURAL HEALTH

3/23/2015

2014 Service Area: Brookings

VITAL STATISTICS (Oregon Health Authority--continued)

MORTALITY FIGURES (rates are per 100,000 persons)

CAUSE-SPECIFIC CRUDE DEATH RATES per 100,000 (Average per year 2009-2013):

	Service Area	County	Rural	OR	
Total:	1687.0	1590.5	1011.1	818.0	Deaths per Year in Service Area (Average of 2009-13): 235
Cancer:	417.4	391.6	243.1	193.3	
Heart Disease:	380.1	369.2	200.5	157.2	
Chronic Lower Resp Disease	127.7	121.6	67.4	49.6	
Cerebrovascular Disease	76.0	72.4	56.3	45.8	
Unintended Injuries:	84.6	68.8	49.5	41.4	
Alzheimer's:	53.1	38.4	35.9	32.5	
Diabetes:	45.9	48.3	35.1	27.5	
Suicide:	45.9	43.8	20.2	17.0	
Alcohol Induced:	17.2	21.5	19.6	15.9	
Flu and Pneumonia:	21.5	18.8	13.2	10.9	

	Service Area	County	Oregon
Age-adjusted Death Rate, (Avg per year 11-13)	1,037.8	997.1	831.3
Comparative Mortality Figure, (Avg per year 11-13)	2.0	1.9	1.0
Years of Life Lost Index, (Avg per year 11-13)	2.2	1.8	1.0
Preventable Hospitalizations per 1000 Pop: (2011-2013, COMPdata)	3.6	6.7	7.6

HEALTH RISK FACTORS (2006-2009, 2008-2011 BRFSS; age-adjusted)

	County 06-09	County 08-11	Oregon 08-11
% of Adults who Currently Smoke Cigarettes	18.4%	32.3%	16.3%
% of Adults with No Leisure Time Activity		25.1%	17.5%
% of Adults Overweight	30.4%	29.9%	35.5%
% of Adults Obese	29.8%	31.5%	24.8%
% of Adults with Diabetes	6.0%	6.8%	7.2%
% of Adults with High Blood Pressure	25.8%	22.7%	26.6%
% of Adults with High Blood Cholesterol	32.6%	29.3%	32.2%

ECONOMIC CONTRIBUTION OF HEALTH CARE EMPLOYMENT (2008)

Total Employment Contribution (Jobs in county)	927
Total Value-Added Contribution to County GDP (in \$Millions)	\$44.1

OREGON OFFICE OF RURAL HEALTH

3/23/2015

2014 Service Area: Brookings

HEALTH CARE RESOURCES

PRACTITIONERS IN SERVICE AREA

Primary Care	Licensed
Family Med Physicians (2014 FTE)	4.3
General Practice Physicians (2014 FTE)	0.0
Internal Med Physicians (2014 FTE)	4.1
Obstetricians/Gynecologists (2014 FTE)	0.0
Pediatricians (2014 FTE)	0.0
Nurse Practitioners (2014 FTE Rural only)	5.9
Physician Assistants (2014 FTE Rural only)	3.0
Dental	
Dentists (2014)	11
Dental Hygienists (2014)	8
Mental	
Psychiatrists (2014 FTE)	0.6
Psychologists (2013)	4
Licensed Prof Counselors & LMFT (2013)	2
Licensed Social Workers (2013)	1
Other	
Certified Nurse Midwives (2014)	0 (subset of NP and not added to Total)
Chiropractors (2013)	5
Direct Entry Midwives (2013)	0
General Surgeons (2014 FTE)	0.0
Naturopaths (2014)	0
Nurse Anesthetists-CRNA (2014)	0
Optometrists (2013)	4
Other Surgeons (2014 FTE)	0.0
Pharmacists (2014)	10
Registered Nurses (2014)	77 (non-NPs/CRNAs; home address only)
Total	136.8

SUPPLY AND DEMAND FOR PRIMARY CARE VISITS IN SERVICE AREA

	Service Area	County	State
Number of Persons Per Primary Care Physician:	1,647	1,181	1,223
Number of Visits Accommodated by:			
Primary Care Physicians (2014):	21,934		
PA and NP (2014):	22,695		
Total:	44,629		
Number of Primary Care Visits Needed by 2015 Service Area Population:			
	45,966		

OREGON OFFICE OF RURAL HEALTH

3/23/2015

2014 Service Area: Brookings

HEALTH CARE RESOURCES (continued)

CLINICS IN SERVICE AREA	<u>Number</u>
Rural Health Clinics (RHC):	1
Federally Qualified Health Clinics (FQHC):	
School-Based Clinics:	1

HOSPITALS IN SERVICE AREA (2014 Calendar Year)

Name:
 # of Staffed Beds:
 Type:
 CAH:
 # of Inpatient Discharges:
 # of ER Visits:
 % Occupancy:
 # of Births:
 Avg IP Length of Stay:

DESIGNATIONS OF SHORTAGE BY SERVICE AREA

- | | |
|--------------------------------|-----------------|
| 1. Geographic/Population HPSA? | Low income only |
| 2. MUA/MUP? | Yes |
| 3. Mental Health HPSA? | Yes |
| 4. Dental HPSA? | No |

Office of Rural Health Unmet Need Area? Yes

M(S)FW – Migrant (seasonal) farm worker

GOV – Designated at the request of the state governor due to local barriers and/or health conditions

Service Area geographies do not match exactly with Census Tracts or Sub-County Areas. Please check <http://datawarehouse.hrsa.gov/GeoAdvisor/ShortageDesignationAdvisor.aspx> for the latest and most accurate data using your specific address.

"Urban" and "Rural" refer to ORH Rural definitions:

www.ohsu.edu/xd/outreach/oregon-rural-health/data/rural-definitions/index.cfm

This report has been prepared by the Oregon Office of Rural Health at Oregon Health and Science University.

Printed on 3/23/2015

Additional information, maps, and lists are available at:

www.ohsu.edu/xd/outreach/oregon-rural-health/data/health-care-shortage.cfm

For questions, comments, or sources, please contact Emerson Ong at: ongr@ohsu.edu

OREGON OFFICE OF RURAL HEALTH

Reedsport

3/23/2015 2014 Service Area: Reedsport

GEOGRAPHY



County: Douglas
 Major Town: Reedsport
 Service area includes the following ZIP Codes: 97441, 97449, 97467, 97473
 Major Geographic Features: Low mountains; Ocean; Bay; Five lakes; Three rivers
 Elevation: 9

TRANSPORTATION

		TYPE OF ROAD	
Miles from Reedsport	to:		
Nearest Larger Town:	North Bend	27	Primary
County Seat:	Roseburg	70	12 Interstate, 58 Primary
Nearest Hospital:	Reedsport	0	n/a

Special Transportation Barriers: Low Mountains, Fog
 Systems: Porter Stage Lines bus, Reedsport dial-a-ride

WEATHER

Climate Zone: The Coast, Coastal Range
 Average Temperature (Winter): 41
 Average Temperature (Summer): 68

DEMOGRAPHY (Nielsen 2015)

	Population	% Change	% Change RURAL	% Change URBAN	% Change OREGON
2000	7,685	n/a	n/a	n/a	n/a
2010	7,547	-1.8%	9.0%	13.8%	12.0%
2015	7,368	-2.4%	2.0%	4.8%	3.8%
2020	7,297	-1.0%	2.7%	4.6%	3.9%

CHANGE FROM 2010 TO 2015

Age	2010 Pop	2015 Pop	% Change	% Change RURAL	% Change URBAN	% Change OREGON
0-14	962	946	-1.7%	-2.7%	1.2%	-0.2%
15-44	1,928	1,847	-4.2%	1.9%	2.0%	1.9%
45-64	2,454	2,187	-10.9%	-3.0%	3.9%	1.2%
65+	2,203	2,388	8.4%	15.6%	22.5%	19.3%
Total	7,547	7,368	-2.4%	2.0%	4.8%	3.8%

OREGON OFFICE OF RURAL HEALTH

3/23/2015

2014 Service Area: Reedsport

DEMOGRAPHY (Nielsen 2014 - continued)

2015 POPULATION BREAKDOWN BY AGE

Age	Service Area				OREGON			
	Male	Female	Total	Percent	Male	Female	Total	Percent
0-14	495	451	946	12.8%	366,024	349,575	715,599	18.0%
15-20	186	174	360	4.9%	158,712	150,914	309,626	7.8%
21-24	157	120	277	3.8%	108,406	102,395	210,801	5.3%
25-34	324	307	631	8.6%	268,672	262,558	531,230	13.4%
35-44	309	270	579	7.9%	257,388	252,377	509,765	12.8%
45-64	1,056	1,131	2,187	29.7%	521,070	540,329	1,061,399	26.7%
65-74	699	662	1,361	18.5%	180,342	196,228	376,570	9.5%
75-84	395	365	760	10.3%	78,684	98,240	176,924	4.5%
85+	119	148	267	3.6%	29,497	53,724	83,221	2.1%
Total	3,740	3,628	7,368	100.0%	1,968,795	2,006,340	3,975,135	100.0%

OTHER POPULATION CHARACTERISTICS (Nielsen 2015)

	Service Area	Oregon
Hispanic (all, including other and 2 or more, races)	4.6%	12.7%
Asian/Pacific Islander only (non-Hispanic)	1.1%	4.4%
African-American only (non-Hispanic)	0.4%	1.8%
Native American only (non-Hispanic)	1.2%	1.1%
Other, including 2 or more races (non-Hispanic)	2.9%	3.3%

SOCIOECONOMICS (2009 - 2013 American Community Survey)

	Service Area	County	Rural	Oregon
Population below Poverty Level (\$19,055 per year for 2 adults/1 child <18 in 2014)	18.2%	18.7%	16.9%	16.2%
Population below 200% of Poverty Level	44.8%	43.1%	39.6%	36.2%
Population <18 below Poverty Level	26.2%	29.5%	24.2%	21.7%
Population 16+ Unemployed	7.0%	7.4%	7.2%	7.1%
Population 18-64 with Disability	18.7%	18.2%	14.5%	11.6%
Population 65+ with Disability	45.4%	43.2%	39.4%	37.7%
Households receiving Cash Public Assistance	4.4%	4.0%	3.8%	3.8%
Population 25+ w/o High School Diploma	11.4%	9.1%	8.0%	6.6%
Population >5 who Speak English Less than "very well"	2.1%	1.1%	4.2%	6.2%
Uninsured Civilian Non-institutionalized Population	16.4%	16.3%	16.76%	15.8%
Total OHP Eligibles (DMAP, January 2015)	37.5%	31.6%	30.3%	27.5%

OREGON OFFICE OF RURAL HEALTH

3/23/2015

2014 Service Area: Reedsport

SOCIOECONOMICS (various)

	County	Oregon
Receiving Temporary Assistance for Needy Families (3/2014)	2.4%	1.8%
Children Eligible for Free/Reduced Lunch (13-14 School Yr)	60.8%	51.7%
Receiving Food Stamps (3/2014)	25.9%	20.2%
Government Employees as % of Total Employment (7/2013)	22.1%	15.9%
No Health Insurance (2012 Census Small Area Health Ins Est)	17.5%	17.4%

UNEMPLOYMENT RATES

	County	Oregon	U.S.
1990	8.2%	5.5%	5.6%
2000	7.8%	4.9%	4%
2012	12.2%	8.7%	8.1%

Per Capita Income, 2013	\$33,821	\$39,848	\$44,765
Median Household Income, 2012	\$39,399	\$49,090	\$51,371

VITAL STATISTICS (Oregon Health Authority)

Maternity Characteristics		2009-2013 (Avg per year--rates per 1000 births)						
		TOTAL	Race				Ethnicity	
			White	Black	NatAm	Asian	Other	Hispanic
S E R V I C E A R E A	Average Total Births per Year	63	52.0	0.2	1.4	1.0	2.6	5.4
	Low Birth Weight Rate	60.7	61.5	0.0	142.9	200.0	76.9	0.0
	Inadequate Prenatal Care Rate	60.7	61.5	0.0	0.0	0.0		111.1
	Infant Mortality Rate	3.2						
	Teen (15-19) Birth Rate	86.3	92.3	0.0	142.9	0.0		37.0
O R E G O N	Average Total Births per Year	45,623	31,174	933	551	2426	1501	8,922
	Low Birth Weight Rate	62.4	59.7	104.6	76.6	77.4	69.8	61.6
	Inadequate Prenatal Care Rate	54.5	46.7	91.5	106.4	71.6		66.3
	Infant Mortality Rate	4.9						
	Teen (15-19) Birth Rate	70.9	57	100	126	19		134

*Race numbers do not add up to total due to rounding and noninclusion of "unknown" race

OREGON OFFICE OF RURAL HEALTH

3/23/2015

2014 Service Area: Reedsport

VITAL STATISTICS (Oregon Health Authority--continued)

MORTALITY FIGURES (rates are per 100,000 persons)

CAUSE-SPECIFIC CRUDE DEATH RATES per 100,000 (Average per year 2009-2013):

	Service Area	County	Rural	OR	
Total:	1856.7	1254.1	1011.1	818.0	Deaths per Year in Service Area (Average of 2009-13): 137
Cancer:	491.3	307.4	243.1	193.3	
Heart Disease:	412.6	258.8	200.5	157.2	
Chronic Lower Resp Disease	124.9	93.7	67.4	49.6	
Cerebrovascular Disease	124.9	68.8	56.3	45.8	
Unintended Injuries:	70.6	51.0	49.5	41.4	
Alzheimer's:	27.1	51.0	35.9	32.5	
Diabetes:	81.4	48.1	35.1	27.5	
Suicide:	40.7	24.5	20.2	17.0	
Alcohol Induced:	38.0	18.6	19.6	15.9	
Flu and Pneumonia:	16.3	13.2	13.2	10.9	

	Service Area	County	Oregon
Age-adjusted Death Rate, (Avg per year 11-13)	1,112.5	948.2	831.3
Comparative Mortality Figure, (Avg per year 11-13)	2.2	1.5	1.0
Years of Life Lost Index, (Avg per year 11-13)	1.6	1.3	1.0
Preventable Hospitalizations per 1000 Pop: (2011-2013, COMPdata)	17.4	12.0	7.6

HEALTH RISK FACTORS (2006-2009, 2008-2011 BRFSS; age-adjusted)

	County 06-09	County 08-11	Oregon 08-11
% of Adults who Currently Smoke Cigarettes	27.0%	26.7%	16.3%
% of Adults with No Leisure Time Activity	20.9%	20.9%	17.5%
% of Adults Overweight	33.3%	36.1%	35.5%
% of Adults Obese	30.6%	33.6%	24.8%
% of Adults with Diabetes	10.0%	11.2%	7.2%
% of Adults with High Blood Pressure	31.4%	33.1%	26.6%
% of Adults with High Blood Cholesterol	35.1%	38.4%	32.2%

ECONOMIC CONTRIBUTION OF HEALTH CARE EMPLOYMENT (2008)

Total Employment Contribution (Jobs in county)	5,932
Total Value-Added Contribution to County GDP (in \$Millions)	\$377.9

OREGON OFFICE OF RURAL HEALTH

3/23/2015

2014 Service Area: Reedsport

HEALTH CARE RESOURCES

PRACTITIONERS IN SERVICE AREA

Primary Care	Licensed
Family Med Physicians (2014 FTE)	5.1
General Practice Physicians (2014 FTE)	0.0
Internal Med Physicians (2014 FTE)	3.9
Obstetricians/Gynecologists (2014 FTE)	0.0
Pediatricians (2014 FTE)	0.0
Nurse Practitioners (2014 FTE Rural only)	1.0
Physician Assistants (2014 FTE Rural only)	2.0
Dental	
Dentists (2014)	2
Dental Hygienists (2014)	2
Mental	
Psychiatrists (2014 FTE)	0.0
Psychologists (2013)	1
Licensed Prof Counselors & LMFT (2013)	0
Licensed Social Workers (2013)	0
Other	
Certified Nurse Midwives (2014)	0 (subset of NP and not added to Total)
Chiropractors (2013)	1
Direct Entry Midwives (2013)	0
General Surgeons (2014 FTE)	1.0
Naturopaths (2014)	0
Nurse Anesthetists-CRNA (2014)	3
Optometrists (2013)	0
Other Surgeons (2014 FTE)	1.7
Pharmacists (2014)	3
Registered Nurses (2014)	45 (non-NPs/CRNAs; home address only)
Total	66.6

SUPPLY AND DEMAND FOR PRIMARY CARE VISITS IN SERVICE AREA

	Service Area	County	State
Number of Persons Per Primary Care Physician:	816	1,468	1,223
Number of Visits Accommodated by:			
Primary Care Physicians (2014):	23,550		
PA and NP (2014):	7,650		
Total:	31,200		
Number of Primary Care Visits Needed by 2015 Service Area Population:			
	24,707		

OREGON OFFICE OF RURAL HEALTH

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2014 Service Area: Reedsport

HEALTH CARE RESOURCES (continued)

CLINICS IN SERVICE AREA

	Number
Rural Health Clinics (RHC):	1
Federally Qualified Health Clinics (FQHC):	
School-Based Clinics:	

HOSPITALS IN SERVICE AREA (2014 Calendar Year)

Name:	Lower Umpqua Hospital
# of Staffed Beds:	16
Type:	B
CAH:	Yes
# of Inpatient Discharges:	292
# of ER Visits:	3,334
% Occupancy:	17.0%
# of Births:	0
Arg IP Length of Stay:	3-4

DESIGNATIONS OF SHORTAGE BY SERVICE AREA

- | | |
|--------------------------------|----------------|
| 1. Geographic/Population HPSA? | Low income/MFW |
| 2. MUA/MUP? | MUP |
| 3. Mental Health HPSA? | Yes |
| 4. Dental HPSA? | Low income/MFW |

Office of Rural Health Unmet Need Area? Yes

M(S)FW – Migrant (seasonal) farm worker

GOV – Designated at the request of the state governor due to local barriers and/or health conditions

Service Area geographies do not match exactly with Census Tracts or Sub-County Areas. Please check <http://datawarehouse.hrsa.gov/GeoAdvisor/ShortageDesignationAdvisor.aspx> for the latest and most accurate data using your specific address.

"Urban" and "Rural" refer to ORH Rural definitions:

www.ohsu.edu/xd/outreach/oregon-rural-health/data/rural-definitions/index.cfm

This report has been prepared by the Oregon Office of Rural Health at Oregon Health and Science University.

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Additional information, maps, and lists are available at:

www.ohsu.edu/xd/outreach/oregon-rural-health/data/health-care-shortage.cfm

For questions, comments, or sources, please contact Emerson Ong at: ong@ohsu.edu

OREGON OFFICE OF RURAL HEALTH

Office of Rural Health Data Sources

Sources for ORH Service Area Profiles

Geography		<i>Geography and Weather</i>
1		Oregon Economic and Community Development Department, Community Profiles
Geography		<i>Distances</i>
2	2/2014	Google Maps
Geography		<i>Transportation</i>
3	2/2014	Tripcheck
Demography		<i>Population, Ethnicity, Race</i>
4	2015	Purchased annually from Nielsen [by ZIP]
Socioeconomics		<i>American Community Survey</i>
5	2009-2013	American Community Survey website [by ZIP]
Socioeconomics		<i>Percent Total OHP Eligibles by Zip</i>
6	1/2015	Division of Medical Assistance Programs (DMAP), Department of Human Services
Socioeconomics		<i>County Per Capita Income</i>
7	2013	Bureau of Economic Analysis, Annual State Personal Income
Socioeconomics		<i>County Median Household Income</i>
8	2012	Census Small Area Income & Poverty Estimates
Socioeconomics		<i>Unemployment Rates</i>
9	2012	Oregon Employment Department, Unemployment Rates [by county]
Socioeconomics		<i>TANF, Food Stamp Eligibles by County</i>
10	3/2014	Oregon Department of Human Services, Public Assistance Branch and Service Delivery Area Data, Oregon Public Assistance Programs, Historical Program Information by Branch and County
Socioeconomics		<i>Reduced/Free Lunch Eligibles</i>
11	2013-2014 School Yr	Oregon Department of Education, Statistics and Reports, School Finance Data and Analysis, Reports, Students [by school]
Socioeconomics		<i>Government Employees</i>
12	2013 July	Oregon Employment Department, Current Employment by Industry [by county]

Socioeconomics		<i>No Health Insurance</i>
13	2012	Census Small Area Health Insurance Estimates [by county]
Vital Statistics		<i>Birth/Maternity Characteristics by Race</i>
14	2009-2013	Purchased annually from Center for Health Statistics, Oregon Health Authority [by ZIP] Teen Births: 15-19
Vital Statistics		<i>Cause-Specific Crude Death Rates and Deaths per Year</i>
15	2009-2013	Purchased annually from Center for Health Statistics, Oregon Health Authority. Denominator is current Nielsen population. [by ZIP]
Vital Statistics		<i>Age-Adjusted Death Rate, Mortality Figure, Years of Life Lost</i>
16	2011-2013	Purchased annually from Center for Health Statistics, Oregon Health Authority. Denominator is current Nielsen population. [by ZIP]
Vital Statistics		<i>Preventable Hospitalizations (ACSC)</i>
17	2011-2013	Compdata [by hospital and ZIP]. These are also known as Ambulatory Care Sensitive Conditions.
Health Risk Factors		<i>BRFSS</i>
18	2006-2009, 2008-2011	Oregon Department of Human Services; Center for Health Statistics, Adult Survey (BRFSS) Selected Topics by County http://public.health.oregon.gov/BirthDeathCertificates/Surveys/AdultBehaviorRisk/county/Pages/index.aspx
Economic Contribution		<i>Economic Contribution</i>
19	2008	Oregon Healthcare Workforce Institute. The Economic Contributions of Oregon's Health Care Workforce, March 2011, http://oregonhwi.org/resources/documents/FinalEconORHCW211.pdf
Health Care Resources		<i>Primary Care Physicians, Physician Specialists, and Psychiatrists</i>
20	12/2014	FTE data purchased from Oregon Medical Board, [by Work ZIP]
Health Care Resources		<i>Physician Assistants and Nurse Practitioners</i>
21	2014	Oregon Office of Rural Health Tax Credit Database. By work ZIP, all PAs and NPs in ORH rural areas.
Health Care Resources		<i>RNs, Certified Nurse Midwives, and Nurse Anesthetists</i>
22	11/2014	Purchased annually from Oregon State Board of Nursing [by Home ZIP]
Health Care Resources		<i>Dentists and Dental Hygienists</i>

23	2014	Purchased from Oregon Board of Dentistry [by ZIP]
Health Care Resources		
24	2014	Purchased from State Board of Pharmacy [by ZIP]
Health Care Resources		
25	2013	State Board of Chiropractic Examiners [by ZIP]
Health Care Resources		
26	2014	Purchased from Board of Naturopathic Examiners [by ZIP]
Health Care Resources		
27	2013	Oregon Board of Direct Entry Midwifery [by ZIP]
Health Care Resources		
28	2013	Oregon Board of Optometry [by ZIP]
Health Care Resources		
29	2013	State Board of Psychologist Examiners [by Zip]
Health Care Resources		
30	2013	State Board of Clinical Social Workers [by ZIP]
Health Care Resources		
31	2013	Oregon Board of Licensed Professional Counselors and Therapists [by ZIP]
Health Care Resources		
32	2005-2006	Hing E, Burt CW. Characteristics of office-based physicians and their medical practices: United States, 2005-2006. National Center for Health Statistics. Vital Health Stat 13(166). 2008.
Health Care Resources		
33		The average of the the figures derived by CMS (Centers for Medicare and Medicaid Services [formerly HCFA]): Form HCFA-222-92, "Visits and Overhead Cost for RHC/FQHC," Worksheet B-- and a study done by the Idaho Rural Health Education Center: Pryzbilla, J. (1996). A Step-by-Step Training Guide to Primary Care Provider Recruitment and Retention, 22-23.
Health Care Resources		
34	2010	National Ambulatory Medical Care Survey: 2010 Summary Tables

Health Care Resources		<i>Clinics in Service Area</i>
35	Current	Periodic email updates from John Pilmer, Client Care Surveyor at Health Care Status and Certification, CMS
Health Care Resources		<i>Hospitals in Service Area</i>
36	2014	Apprise website-- http://apprisehealthinsights.com/public-reports/oregon-hospital-utilization-data/
Designations of Shortage		<i>HPSA</i>
37	Current	U.S. Dept. of Health and Human Services, Health Resources and Services Administration, Bureau of Health Professions, Health Professional Shortage Areas Database Query
Designations of Shortage		<i>MUA/P</i>
38	Current	U.S. Dept. of Health and Human Services, Health Resources and Services Administration, Bureau of Primary Health Care, Medically Underserved Areas/Populations Database
Designations of Shortage		<i>ORH Unmet Need</i>
39	2013	Oregon Office of Rural Health Unmet Need Designation

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