



Prepared for Cascade Water Alliance

Cascade Supply Program Program and Engineering Support

STATEMENT OF QUALIFICATIONS

June 06, 2025







Cascade Supply Program Program and Engineering Support

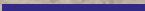
STATEMENT OF QUALIFICATIONS

June 06, 2025



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Cover Letter

SECTION 1





701 Pike Street, Ste. 1300
Seattle, WA, 98101-2310
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www.browncaldwell.com



June 6, 2025

Mr. Brian D. Bartle, PE, Program Executive
Cascade Water Alliance
11400 SE 8th Street, Ste. 400
Bellevue, WA 98004

Subject: Statement of Qualifications for Cascade Supply Program | Program and Engineering Support

Dear Mr. Bartle and members of the selection committee,

Cascade Water Alliance (Cascade) is embarking on a historic program to transform the region's water supply. By delivering a new, resilient connection to Tacoma Water's system, the Cascade Supply Program (CSP) will greatly enhance regional water reliability for its members. Further, this connection will advance Cascade's mission and pave the way for even greater regional collaboration in the future.



Partner for the Long Haul

Brown and Caldwell (BC) understands the importance of this program. We share your passion for providing exceptional service and recognize the extraordinary opportunity this program provides for your members and the Puget Sound region. We are delighted at the prospect of serving as your **partner for the long haul**, providing both the experience and capacity to help you **secure optimized pipeline routes** while **preserving future flexibility** and **earning and maintaining stakeholder support**.



Secure Optimized Pipeline Routes

We are a water-focused firm with more than 2,350 professionals, including local program management and pipeline experts. BC is one of the most stable firms in the industry, with nearly 80 years of continuous employee-ownership. We deliver some of the largest, most complex water and wastewater programs in North America—more than 25 programs totaling more than \$20 billion in the last 10 years alone. This includes more than \$4 billion in recent, major programs across the Pacific Northwest, where our key team members have worked together to deliver water supply and other critical infrastructure improvements.



Preserve Future Flexibility

These include the Portland Water Bureau (PWB) Bull Run Filtration Program, the Lake Oswego Tigard Water Partnership (LOTWP) Water Supply Program, the Lake Oswego Interceptor Sewer (LOIS) Program, the Tacoma Water Pipeline No. 1 (P1) Pressurization Program, and the King County Wastewater Treatment Division (WTD) Offsite Facilities Program. BC is also a recognized leader in pipeline planning, design, and construction services, delivering large-scale infrastructure work across the region, including multiple packages under the Willamette Water Supply Program (WWSP).



Earn and Maintain Stakeholder Support

Brian Bartle
Cascade Water Alliance
June 6, 2025
Page 2

We are pleased to offer Cascade the veteran leader common to each of these programs: our Project Manager, Jon Holland. Jon is looking forward to joining forces once again with our experienced Deputy Project Manager, Mike Prett. Jon and Mike have managed two large programs together: the LOWTP and LOIS programs—both completed on-time and under budget. Our Planning and Design Lead, Joel Weakland, has worked extensively with our management team and has spent his entire 15-year career successfully planning, designing, and managing construction of large-diameter water transmission pipelines as part of major supply programs.

Key partners further enhance our team, and will deliver the full range of specialty services required. These include exclusive partnerships with David Evans and Associates (DEA), Delve Underground (Delve), and Kennedy Jenks (KJ). We have worked closely with these firms, along with several other partners, on large projects and programs throughout the Northwest, including WWSP. As you will see in our attached submittal, our team has unmatched experience working together.

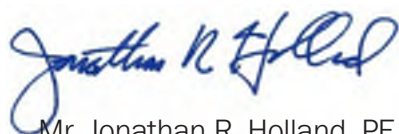
Our team's current workload will not impact our ability to successfully manage the CSP. We have the capacity to ramp up and seamlessly transition to your program, as the launch of the CSP aligns well with the completion or reduction of many team members' current commitments. Most notably, the Bull Run Filtration Program will be moving into construction, and WWSP will complete construction this year.

As Jon's role on the Bull Run Filtration Program winds down later this year, he will relocate to the Bellevue area to manage our team locally and commit the level of in-person integration with your team that the CSP deserves. As evidenced by his commitment, our team has the full backing of BC leadership to dedicate all necessary resources to support successful delivery of the CSP.

We acknowledge receipt of Addenda 1 and 2. Should you have any questions about the content of this Statement of Qualifications, please contact Jon at 503.977.6609 or jr holland@brwncald.com. We look forward to sharing our specific strategies for the success of your program in our proposal.

Very truly yours,

Brown and Caldwell



Mr. Jonathan R. Holland, PE
Project Manager
701 Pike Street, Ste. 1300
Seattle, WA 98101-2310



Mr. Michael Puccio, PE
Managing Director of Operations,
Authorized Signatory
18500 Von Karmen Ave., Ste. 800
Irvine, CA 92612

Background of the Firm

SECTION 2





Section 2: Background of the Firm

Program management excellence + large-diameter pipeline prowess

More than simply executing on time and budget, BC knows how to use program management tools to deliver real benefits and lasting success for complex, large-scale investments.

As one of the largest engineering consultants in North America focused solely on water, BC is among the most stable firms in the business, with nearly 80 years of continuous employee ownership. We help clients build project and capital program strategies, structures, and tools that empower their staff to excel; provide adaptive strategies to read and model risk and opportunity landscapes; and foster economic growth and community development. BC offers a depth of specialists in program start-up and initiation, program delivery and controls, cost estimating and scheduling, risk management, alternative funding, strategic engagement, and decision science.

Our program expertise is complemented by our industry-renowned technical capabilities in planning, design, construction, owner advisory (OA), asset management, utility performance, and digital water. A recognized leader in pipeline planning, design, and construction management (CM), BC has also served as program manager for water transmission infrastructure programs across the country, with a center of excellence right here in the Pacific Northwest.

COMPANY FOUNDED
1947

TOTAL EMPLOYEES
2,350+

PNW EMPLOYEES
260+

LOCAL OFFICE
Seattle
701 Pike St., Ste 1300
Seattle, WA 98101
50+ offices across
North America and the Pacific



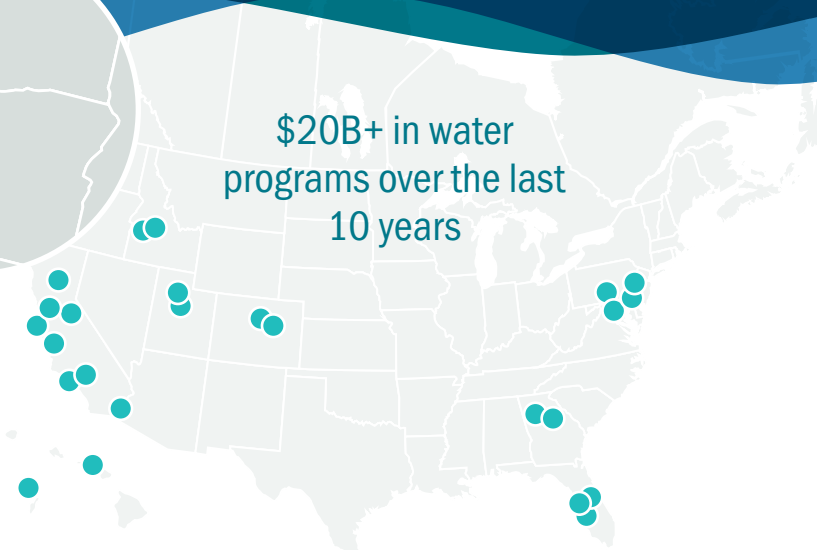
Partnering for
the Long Haul

BC is successfully delivering the largest, most complex water programs in the PNW.

- 1 LOWTP Water Supply Program
- 2 Bull Run Filtration Program
- 3 P1 Pressurization Program
- 4 Willamette Water Supply Program
- 5 Lake Oswego Interceptor Sewer Program



\$20B+ in water
programs over the last
10 years



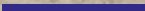
Subconsultant Overview

Our team includes key partners that bring expertise to secure optimized pipeline routes, earn and maintain stakeholder support, and preserve future flexibility. BC has long working histories with most of these firms—including our exclusive partners, KJ, Delve, and DEA—delivering large projects and programs throughout the Pacific Northwest, such as the LOTWP Water Supply Program, Bull Run Filtration Program, Tacoma Water’s P1 Pressurization Program, and the WWSP. With these proven partnerships, our team brings established trust and continuity amongst key team members to efficiently transition from these successful programs to the CSP—to help you build a program delivery standard that brings your vision to life.

Table 2.1. Partners for the long-haul // The BC team will leverage proven subconsultant partnerships developed on major Pacific Northwest projects and programs to efficiently deliver the CSP.

Firm Name/Role	Years in Business	Areas of Specialization	Number of Employees	Office Location
 Commonstreet Consulting (CC) RIGHT OF WAY (ROW)	8	ROW	60	Seattle, WA
 Confluence Engineering Group (CEG) WATER QUALITY	17	Water Quality, Water System Planning, Regulatory Compliance	8	Seattle, WA
 David Evans and Associates (DEA) PERMITTING, SURVEY, TRAFFIC ENGINEERING	49	Environmental and Land Use Permitting, Roads and Highways, Survey	1,100+	30+ offices including Bellevue, Seattle, Renton, and Tacoma, WA
 Delve Underground (Delve) GEOTECHNICAL, SEISMIC, AND TRENCHLESS	76	Trenchless, Tunnels/ Underground, Geotechnical Engineering, Construction Management	350	25 offices including Seattle, WA
 GeoEngineers Inc. (GEI) GEOTECHNICAL, ENVIRONMENTAL ASSESSMENT	45	Geotechnical Engineering, Earth Sciences	400+	20+ offices including Seattle and Tacoma, WA
Historical Research Associates (HRA) ● CULTURAL RESOURCES	51	Cultural Resources Management, Archaeology	62	9 offices including Seattle, WA
 KBA, Inc. (KBA) CM AND INSPECTION	31	Construction Management and Inspection, Project/Program Management	110	Seattle, Bellevue, Tacoma, and Mt. Vernon, WA
 Kennedy Jenks (KJ) PLANNING AND DESIGN SUPPORT	106	Water Treatment, Pipeline Alignment Planning/Design, Pump Station Design, Construction Management	525	30+ offices including Seattle, WA
Lettis Consultants International (LCI) ● SEISMIC HAZARD ANALYSIS	14	Seismic Hazard Analysis, Geologic Hazard Services	52	Concord, Valencia, and Sacramento, CA
 Norton Corrosion Limited (NCL) CORROSION CONTROL	66	Cathodic Protection, Corrosion Engineering	20	Woodinville, WA
Pond and Company (Pond) AC INTERFERENCE MITIGATION	60	Engineering, Architecture, Planning, Program Management	800+	19 offices, including San Diego, CA
 PRR ●● COMMUNICATIONS AND OUTREACH	43	Community Engagement	117	Seattle, WA

 *Past History with BC* Diversity, Equity, and Inclusion Notation | ● WBE ● DBE ● SBE



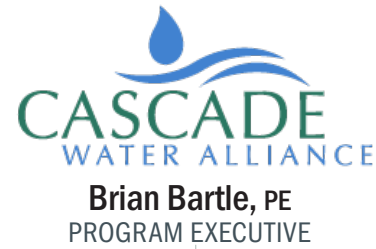
Organization Chart

SECTION 3





Section 3: Organization Chart



Alexander Mockos, PE (BC)
PRINCIPAL IN CHARGE

Keith Ward, PE, PMP (BC)
INTERGOVERNMENTAL
ADVISOR, GOVERNANCE, AND
SUCCESS METRICS

Jon Holland, PE (BC)
PROJECT MANAGER

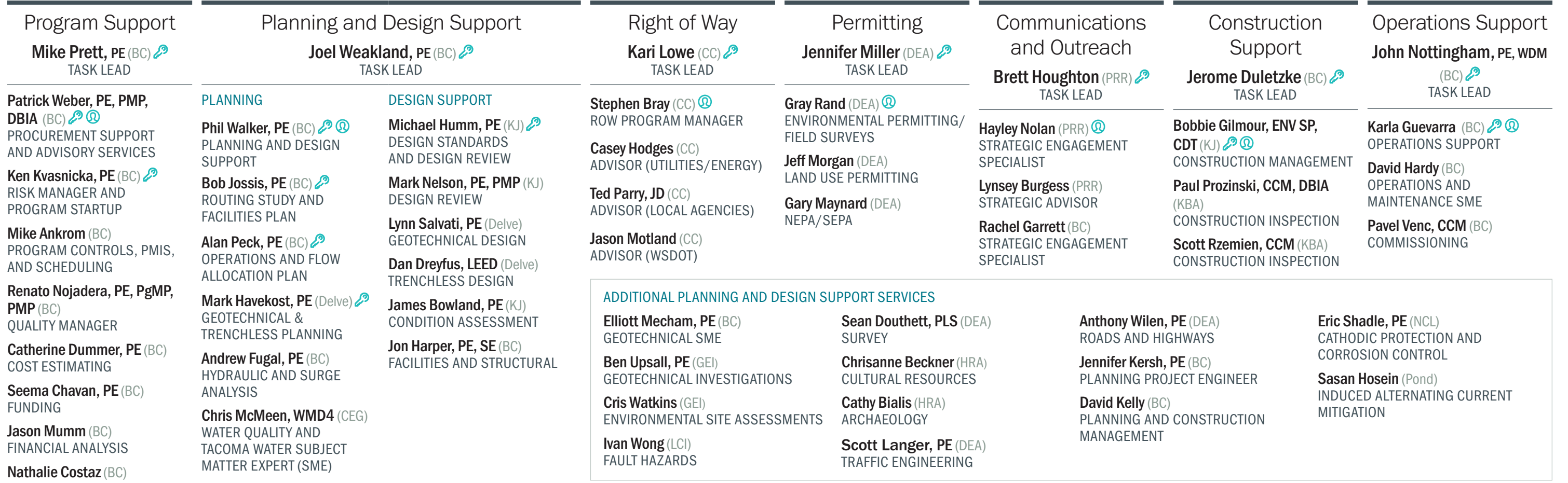
Mike Prett, PE (BC)
DEPUTY PROJECT MANAGER



Anticipated Two-Year Availability of Key Staff

Jon Holland, PE	80%	Patrick Weber, PE, PMP, DBIA	30%
Mike Prett, PE	50%*	Ken Kvasnicka, PE, DBIA	70%
Joel Weakland, PE	90%	Phil Walker, PE	35%
Kari Lowe, SR/WA	50%	Bob Jossis, PE	50%
Jennifer Miller	50%	Alan Peck, PE	30%
Brett Houghton	30%	Mark Havekost, PE	35%
Jerome Duletzke, PE	30%	Michael Humm, PE	35%
John Nottingham, PE	25%	Bobbie Gilmour, ENV SP, CDT	30%
Keith Ward, PE, PMP	30%	Karla Guevarra	30%

*increasing to 70% in Fall 2026



Key Staff Task Co-lead

(CC) Commonstreet Consulting (CEG) Confluence Engineering Group, LLC (DEA) David Evans and Associates, Inc. (Delve) Delve Underground (GEI) GeoEngineers, Inc. (HRA) Historical Research Associates (KBA) KBA (KJ) Kennedy Jenks (LCI) Lettis Consultants International (NCL) Norton Corrosion Limited (Pond) Pond and Company

BC anticipates achieving a 7% COMMITMENT LEVEL to small and minority businesses over the life of the program.

Relevant Experience of the Team

SECTION 4





Section 4: Relevant Experience of the Team

Proven program management partners

With 50 years' combined experience delivering marquee water and wastewater programs across the Pacific Northwest, Jon and Mike understand how to foster strong team dynamics. They bring proven program delivery processes, performance standards, and reporting to facilitate efficient delivery and long-term guidance of the CSP.

Project Manager Jon Holland and **Deputy Project Manager Mike Prett** have worked together since 2007 to deliver complex programs, including the the award-winning, 9-year, \$100 million LOIS Program and the 8-year, \$250 million LOTWP Water Supply Program to upsize and replace Lake Oswego's potable water supply system to meet long-term capacity needs. Together, Jon and Mike led these program teams to navigate significant permitting, ROW, public acceptance, and technical risks and challenges to realize cost savings and keep the programs on track.

Jon and Mike are eager to team up again, bringing their proven partnership and complementary strengths to help you guide the CSP to success.

Mike's exceptional abilities in business processes and tools, program controls, and risk management will allow Jon to engage more with the technical, permitting, political, and decision-making needs of the program, putting to best use their strengths as well-rounded leaders, program managers, and communicators.



“I'm excited to move back to the Puget Sound region to give the CSP the level of attention and collaboration it deserves. I'd be honored to work with Brian and the rest of the Cascade team to advance your critical mission of providing a cost-effective, resilient water supply through regional cooperation.”

— JON HOLLAND, Project Manager

Jon Holland, PE

Project Manager

LOCATION:
 Portland, OR
 (relocating to Bellevue upon selection)



Jon brings nearly 40 years of experience building and leading multi-disciplinary teams to successfully deliver large, challenging water supply and wastewater infrastructure projects and programs in the Pacific Northwest.

A proven leader and exceptional communicator, Jon employs a collaborative approach to understand stakeholder interests, identify issues and alternatives, weigh risks, build consensus, and implement solutions to proactively manage risk and achieve critical outcomes.

With experience as both an owner and consultant, Jon brings diverse perspective to support Cascade’s long-term goals. He will work closely with Program Executive Brian Bartle and his team from day one, leveraging lessons learned from large local programs. Jon will be Cascade’s primary contact and responsible for overall contract management.

Key Project/Program Highlights:

- ✔ **Program Manager** for on-time, on-budget delivery of the 8-year LOTWP Water Supply Program. Jon’s team realized cost efficiencies by leveraging economies of scale, designing to budget, performing value engineering, planning for longevity, building in seismic resilience, and promoting contractor competition.
- ✔ **Program Manager** for the 9-year LOIS program. Jon led the team to deliver the program 10 percent below budget on an accelerated schedule by consistently and collaboratively anticipating and addressing risks.
- ✔ **Program Manager/Advisor** for the 10-year, \$1.8 billion PWB Bull Run Filtration Program. For the first 5 years of the program, Jon led a 10-person core team that managed all key functional areas at the program and project levels to deliver a new water treatment plant and more than 7 miles of large-diameter pipelines.
- ✔ **Program Advisor/Principal-in-Charge (PIC)** for the Tacoma Water P1 Pressurization Program. Jon is advising the OA team that is supporting operational performance and resiliency improvements for a critical 26-mile, large-diameter water supply pipeline.
- ✔ **Project Manager/PIC** for three WWSP pipeline projects delivered over 9 years. Jon’s team worked closely with the owner’s program management team to manage sequencing across program elements and with other agencies, develop program-wide seismic design standards, and improve standard specifications and details.

Table 4.1 // Jon Holland Workload and Availability

Program/Project Name + Client	Jon’s Participation End Date	Current % of Workload
Bull Run Filtration Program, PWB	Fall 2025 (once permits are approved)	8%
P1 Pressurization Program, Tacoma Water	2027	2%
Offsite Facilities Program, King County WTD	June 2026 (after 2-year term as advisor)	8%
30-mile Large-diameter Transmission Pipeline, Confidential Client	December 2025	2%

“Jon’s commitment and combination of political and technical acumen, combined with BC’s culture of collaboration and innovation, served us well. We achieved broad public support and the challenging program was delivered on time and under budget. This experience made us eager to partner with BC again to guide our water program, which was also a resounding success.”

– **JOEL KOMAREK**, Project Director, City of Lake Oswego

Mike Prett, PE

Deputy Project Manager /
Program Support Task Lead

LOCATION:
Portland, OR

AVAILABILITY:

Year 1  50%

Year 2  70%

Mike brings nearly 30 years of experience managing and overseeing large programs across the Northwest for utilities, including the cities of Lake Oswego, Tigard, Portland, and Boise.

Mike's background balances leadership, technical expertise, program management, and business considerations to promote program success. His experience spans financial management, information management, project controls, program management information system (PMIS) implementation, infrastructure asset management, computerized maintenance management systems (CMMS), and stakeholder communication. He is Prosci-certified and brings the skills and knowledge to effectively manage organizational change.

As Deputy Project Manager and Program Support Task Lead, Mike will work closely with Jon, as he has over the last 18 years, bringing proven processes from the LOTWP, LOIS, and Boise Recycled Water programs to efficiently manage the CSP.

Key Project/Program Highlights:

- ✓ **Deputy Program Manager/Program Information Officer** for the LOTWP Water Supply Program, which was delivered on an aggressive 8-year timeline. Co-locating at the client's office throughout much of the program, Mike managed program controls, risk mitigation, cash-flow forecasting, and staff mentoring.
- ✓ **Design Phase Project Manager** for the 9-year LOIS program. Mike led a multi-discipline team, managed risk, and oversaw complex permitting, including a U.S. Army Corps of Engineers (USACE) Nationwide 12 permit.
- ✓ **Program Controls Advisor** for the 10-year, \$1.8 billion PWB Bull Run Filtration Program. Mike advised on PMIS and program controls setup.
- ✓ **Program Manager** for Boise's \$500 million Recycled Water Program—the city's largest capital program to date—which is preparing the community for growth, drought, and climate change by recycling water through aquifer recharge and industrial reuse. Delivered on an aggressive schedule, the program includes new conveyance pipelines, pump stations, a water treatment facility, and a groundwater recharge facility. Mike partners directly with the city's program manager, traveling to Boise more than 20 times over the last 2 years, to lead an expansive yet cohesive and high-functioning team in all aspects of program execution, including utility formation, planning, pre-design, design, construction manager/general contractor (CM/GC) procurement, programmatic permitting, community development, public engagement, policy development, and robust programmatic controls. Through open and proactive communication, he is leading the team to overcome complex technical and regulatory challenges for this transformative program.

Table 4.2 // Mike Prett Workload and Availability

Program/Project Name + Client	Mike's Participation End Date	Current % of Workload
Recycled Water Program, City of Boise	2030	50% (decreasing to 30% in 2026)

“Mike is the consummate professional. Quiet, direct, and wise. Everything that I hope to have in a leader on my team. He shows up day in and day out, doesn't get emotional or let anything really affect him. He is the rock at the helm of this great ship and is perfect for the role. I also appreciate his dedication to his craft. He is one of the best program managers I have ever worked with.”

— JOSH BAKER, Program Manager, City of Boise

In addition to Jon and Mike, our team includes experienced staff ready to partner with Cascade. Below, we detail the experience of our task leads and supplemental key staff, including select task co-leads. Together, we will set the groundwork for long-term success of the CSP.

Table 4.3 // Task Leads and Key Staff











Team Member/Role/Availability	Background, Experience, and Qualifications	Current Workload
 <p>Patrick Weber, PE, PMP, DBIA Program Support Task Co-lead; Procurement Support/Advisory Services</p> <p>LOCATION: Seattle, WA</p> <p>2-YEAR AVAILABILITY:  30%</p>	<p>Over the past 12 years, Patrick has supported Seattle Public Utilities (SPU), Tacoma, King County, Everett, and other Washington jurisdictions with progressive design-build (PDB) and general contractor/construction manager (GC/CM) projects, managing and overseeing multidisciplinary utility projects.</p>	<ul style="list-style-type: none"> – Offsite Facilities Program, King County WTD, 25% – P1 Pressurization Program, Tacoma Water, 10% – M Street Trunk Rehabilitation, King County WTD, 20% – Puyallup Avenue OA, City of Tacoma, 15%
 <p>Joel Weakland, PE Planning and Design Support Task Lead</p> <p>LOCATION: Portland, OR</p> <p>2-YEAR AVAILABILITY:  90%</p>	<p>Joel brings nearly 15 years of experience in planning, design, and construction of large-diameter water pipelines, including 15 miles of the WWSP and 10 miles of the LOTWP Water Supply Program. He is also Pipeline Program Management Team Lead for the Bull Run Filtration Program that includes 7 miles of pipeline.</p>	<ul style="list-style-type: none"> – Bull Run Filtration Program, PWB, 30% <i>(through Q4 2025)</i> – WWSP PLM 4.0, Tualatin Valley Water District (TVWD), 35% <i>(complete in Q4 2025)</i> – P1 Pressurization Program, Tacoma Water, 10%
 <p>Phil Walker, PE Planning and Design Support Task Co-lead</p> <p>LOCATION: Tampa, FL <i>(relocating to Seattle)</i></p> <p>2-YEAR AVAILABILITY:  35%</p>	<p>Phil has more than 10 years of experience navigating complex pipeline routing designs, including permitting, hydraulic modeling, master planning, and construction services. He coordinates preliminary engineering reports, detailed designs, procurement documents, record drawings, and operations and maintenance (O&M) documents.</p>	<ul style="list-style-type: none"> – South Plant Program, King County WTD, 65%
 <p>Kari Lowe, SR/WA ROW Task Lead</p> <p>LOCATION: Salem, OR</p> <p>2-YEAR AVAILABILITY:  50%</p>	<p>Kari has 23 years of experience in complex real estate services, supporting mega programs across the region, including the WWSP, a 30-mile Levee and Pump Station Program, and the Washington State Department of Transportation (WSDOT) Alaskan Way Viaduct and SR 509 replacement programs.</p>	<ul style="list-style-type: none"> – WWSP, TVWD, 5% – Levee and Pump Station Program, Urban Flood Safety and Water Quality District, 15% – ADQ Program, Oregon Department of Transportation, 5%
 <p>Jennifer Miller Permitting Task Lead</p> <p>LOCATION: Portland, OR</p> <p>2-YEAR AVAILABILITY:  50%</p>	<p>Jennifer brings more than 30 years of regulatory experience that includes permitting large-scale water supply projects across the Pacific Northwest, including the WWSP and LOTWP Water Supply Program. She helps clients plan and design projects to facilitate regulatory compliance and minimize permitting challenges.</p>	<ul style="list-style-type: none"> – McKenzie River Water Supply, Springfield Utility Board, 20% – Clackamas Interceptor, Water Environment Services, 10% – Willamette River Intake and Water Treatment Plant, Eugene Water and Electric Board, 10% – Regulatory Program, Threemile Canyon Farms, 10%

Table 4.3 // Task Leads and Key Staff























Team Member/Role/Availability	Background, Experience, and Qualifications	Current Workload
 <p>Brett Houghton Communications and Outreach Task Lead</p> <p>LOCATION: Seattle, WA</p> <p>2-YEAR AVAILABILITY:  30%</p>	<p>Brett brings more than 30 years of experience implementing community engagement and outreach efforts for communities across Puget Sound. Working through an equity lens, he specializes in engaging historically underrepresented communities and creating plans to address disparate needs.</p>	<ul style="list-style-type: none"> – Transit Asset Management Plan, King County Metro, 15% – Transit Plus Multimodal Outreach, Seattle Department of Transportation, 2% – Cleveland-Richardson Park, City of Renton, 2% – Community Engagement Services, City of Bellevue, 2%
 <p>Jerome Duletzke Construction Support Task Lead</p> <p>LOCATION: Portland, OR</p> <p>2-YEAR AVAILABILITY:  30%</p>	<p>Jerome has 42 years of experience as construction manager, general contractor, and design project manager for large-diameter pipelines and other water infrastructure. He was Construction Manager for 3 miles of the WWSP and 2 miles of the LOIS program.</p>	<ul style="list-style-type: none"> – Recycled Water Program, City of Boise, 10% – Water Station 14 PFAS Design, City of Vancouver, 10% – Aeration System Upgrades, Metropolitan Wastewater Management Commission, 10%
 <p>Bobbie Gilmour, ENV SP, CDT Construction Support Task Co-lead; Construction Management</p> <p>LOCATION: Seattle, WA</p> <p>2-YEAR AVAILABILITY:  20%</p>	<p>Bobbie has worked full-time in the field on projects up to \$350 million in constructed value. She provides dependable, responsive field support to project teams to help coordinate meetings, organize documents and reports, support public relations, and coordinate internal/external communications.</p>	<ul style="list-style-type: none"> – Mouth of Duwamish CSO Program, King County WTD, 15% – Elliot West Treatment Station, King County WTD, 12% – West Point Treatment Plant, King County WTD, 45% – Interbay Pump Station, King County WTD, 3%
 <p>John Nottingham, PE Operations Support Task Lead</p> <p>LOCATION: Seattle, WA</p> <p>2-YEAR AVAILABILITY:  35%</p>	<p>John has 27 years of experience in the planning, design, construction management, and OA support for water supply and other infrastructure projects and programs, including the King County Offsite Facilities Program and Tacoma Water's P1 Pressurization Program. With long-term experience as District Engineer for multiple agencies across Puget Sound, including many years with the City of Everett, he brings an operations focus.</p>	<ul style="list-style-type: none"> – Offsite Facilities Program, King County WTD, 10% – Sites Reservoir Project, Sites Project Authority, 15% – Planning Study, East Bay Municipal Utility District, 15% – Wastewater Treatment Plant, Onondaga Co., 10% – Confidential Project, Confidential Client, 10%
 <p>Karla Guevarra, PE Operations Support Task Co-lead</p> <p>LOCATION: Seattle, WA</p> <p>2-YEAR AVAILABILITY:  30%</p>	<p>Karla brings practical experience gained by direct employment with various drinking water and wastewater utilities in Washington and California. Her primary focus lies in identifying and implementing effective solutions to operational challenges, with the goal of supporting and empowering staff.</p>	<ul style="list-style-type: none"> – Offsite Facilities Program, King County WTD, 10% – Southplant, Brightwater, and Westpoint O&M Liaison, King County WTD, 30% – Biosolids Feasibility Study, City of San Bernardino, 20% – Sidestream Project, Silicon Valley Clean Water, 10%

Table 4.3 // Task Leads and Key Staff

Team Member/Role/Availability	Background, Experience, and Qualifications	Current Workload
 <p>Keith Ward, PE, PMP Intergovernmental Advisor, Governance, and Success Metrics</p> <p>LOCATION: Seattle, WA</p> <p>2-YEAR AVAILABILITY:  30%</p>	<p>A recognized leader in program management and organizational leadership, Keith has 33 years' experience in the planning, design, and construction of complex and highly visible utility, civil, and environmental infrastructure projects and programs.</p>	<ul style="list-style-type: none"> – Offsite Facilities Program, King County WTD, 40% – Recycled Water Program, City of Boise, 10%
 <p>Ken Kvasnicka, PE, DBIA Risk Manager and Program Startup</p> <p>LOCATION: Seattle, WA</p> <p>2-YEAR AVAILABILITY:  70%</p>	<p>Ken has more than 40 years of experience focused on risk management for large water infrastructure programs across the U.S., including Atlanta's \$4.1 billion Clean Water Program. He is currently Program Advisor for King County WTD's \$950 million Offsite Facilities Program.</p>	<ul style="list-style-type: none"> – Offsite Facilities Program, King County WTD, 60%
 <p>Bob Jossis, PE Routing Study and Facilities Plan</p> <p>LOCATION: Portland, OR</p> <p>2-YEAR AVAILABILITY:  50%</p>	<p>Bob has 48 years of engineering experience with a focus on water systems, including master utility plans, water supply development, pumping, transmission, distribution, and storage. He served as Design Manager for the LOTWP Water Supply Program.</p>	<ul style="list-style-type: none"> – Bob works on an as-needed basis. The CSP will be his sole focus.
 <p>Alan Peck, PE Operations and Flow Allocation Plan</p> <p>LOCATION: Portland, OR</p> <p>2-YEAR AVAILABILITY:  30%</p>	<p>Alan's 42 years of experience have focused on water system master planning and design of water infrastructure, including intakes, pipelines, and pump stations for major programs including the WWSP, Bull Run Filtration Program, and Tacoma Water's P1 Pressurization Program.</p>	<ul style="list-style-type: none"> – P1 Pressurization Program, Tacoma Water, 10% – WWSP MPE 1.0, TVWD, 10% – Package 5, Cascade Groundwater Alliance, 30%
 <p>Mark Havekost, PE Geotechnical, Sesimic, Trenchless</p> <p>LOCATION: Portland, OR</p> <p>2-YEAR AVAILABILITY:  35%</p>	<p>Mark has 30 years' experience in conveyance pipeline design, tunnel design, and geotechnical engineering. He has partnered with BC on the Bull Run Filtration Program, Tacoma Water's P1 Pressurization Program, and the WWSP, where he led geotechnical and seismic evaluations to support pipeline routing across the program.</p>	<ul style="list-style-type: none"> – P1 Pressurization Program, Tacoma Water, 5% – Mouth of Duwamish CSO Program, King County WTD, 5% – Filtration Pipelines, PWB, 10% – Rorex Pumped Storage Project, Tennessee Valley Authority, 5%
 <p>Michael Humm, PE Design Standards</p> <p>LOCATION: Portland, OR</p> <p>2-YEAR AVAILABILITY:  35%</p>	<p>Michael has nearly two decades of experience in planning, design, and construction of large-diameter water pipelines, including partnering with BC to deliver more than 4 miles of the WWSP and 10.5 miles of the LOTWP Water Supply Program.</p>	<ul style="list-style-type: none"> – Renewal and Replacement Program, City of Tigard, 5% – Henrici Pump Station and Transmission Main, City of Oregon City, 15% – Forest Grove Engineering Services During Construction, (ESDC) Clean Water Services, 6%

Team Experience Matrix

Name	Firm	Location (City, State)	Proposed Role	A (yrs relevant exp.)	B (yrs program mgmt)	C (# programs)	D (yrs in similar role)	E (LF in similar role)	F (LF in planning)	G (LF in design/const.)	H (LF in WA state)
Jon Holland, PE	BC	Portland, OR (Relocating to Bellevue, WA upon selection)	Project Manager	40	31	8	31	217	215	180	41
Mike Prett, PE	BC	Portland, OR	Task Lead: Program Support	30	16	5	16	62	52	62	0
Joel Weakland, PE	BC	Portland, OR	Task Lead: Planning	14	10	3	7	114	114	79	0
Kari Lowe, SR/WA	CC	Salem, OR	Task Lead: Right of Way	23	10	4	10	179	0	0	0
Jennifer Miller	DEA	Portland, OR	Task Lead: Permitting	35	10	2	27	179	0	0	0
Brett Houghton	PRR	Seattle, WA	Task Lead: Communications	34	10	2	10	N/A	N/A	N/A	N/A
Joel Weakland, PE	BC	Portland, OR	Task Lead: Design	14	10	3	9	28	114	79	0
Jerome Duletzke, PE	BC	Portland, OR	Task Lead: Construction	42	12	3	12	63	7	63	0
John Nottingham, PE	BC	Seattle, WA	Task Lead: Operations	26	24	4	24	N/A	N/A	N/A	N/A
Patrick Weber, PE, PMP, DBIA	BC	Seattle, WA	Task Co-Lead: Program Support	18	2	4	6	16	16	0	4
Phil Walker, PE	BC	Tampa, FL (Relocating to Seattle, WA, in 2026)	Task Co-Lead: Planning and Design	13	1	1	10	48	48	0	0
Bobbie Gilmour, ENV SP, CDT	KJ	Seattle, WA	Task Co-Lead: Construction	11	10	3	10	15	0	0	15
Karla Guevarra, PE	BC	Seattle, WA	Task Co-Lead: Operations	17	1	1	9	N/A	N/A	N/A	N/A
Keith Ward, PE, PMP	BC	Seattle, WA	Intergovernmental Advisor	33	13	2	13	14	0	14	14
Ken Kvasnicka, PE, DBIA	BC	Seattle, WA	Program Startup	44	25	8	25	0	0	0	0
Bob Jossis, PE	BC	Portland, OR	Routing Study and Facilities Plan	48	8	1	25	149	149	149	0
Alan Peck, PE	BC	Portland, OR	Operations and Flow Allocation Plan	42	12	3	30	99	308	120	5
Mark Havekost, PE	Delve	Portland, OR	Geotechnical	30	12	6	25	300	350	0	0
Michael Humm, PE	KJ	Portland, OR	Design Standards	20	4	5	8	22	24	108	0

Project History

SECTION 5





	LOTWP	Bull Run	Tacoma P1	WWSP	LOIS	KC Offsite
Program Support						
Program Management	●	●	○		●	○
Cost Development	●	●	○	●	●	○
Scheduling	●	●	○		●	○
Risk Management Planning	●	●	○	●	●	○
GIS/Mapping	●	●	○		●	○
Grant Funding Application Support			○			
Planning						
Route Selection	●	●		●	●	
Options Analysis	●	●	○	●	●	
Facilities Plan	●	●	○		●	
Operational Plan	●	●	○		●	
O&M Plan/Development	●	●			●	
Delivery Method Analysis	●	●	○		●	○
Hydraulic Analysis/Planning	●	●	○	●	●	○
Surge Modeling/Planning	●	●	○	●	●	○
Seismic Review/Planning	●	●	○	●	●	○
Trenchless Review/Planning	●	●	○	●	●	○
Catholic Protection Review/Planning	●	●		●	●	○
Environmental Review/Planning	●	●		●	●	○
Right of Way						
Route Planning/Alternative Review	●	●		●		○
Railroad Coordination	●			●		○
Utility Coordination	●	●		●		○
Obtaining Franchise Agreements	●					○
Obtained Permanent Easements	●	●		●	●	○
Obtained Temporary Easements	●	●		●	●	○
Permitting						
Project Review/Assess Permit Needs	●	●		●	●	○
Environmental Documentation/Permit	●	●		●	●	○
Develop Permit Packages	●	●		●	●	○
Review Permit Packages	●	●		●	●	○
Submit Permit Packages	●	●		●	●	○
Communications and Outreach						
Conducting Public Meetings	●	○				○
Community Concern Management	●	○			●	○
Developing Graphics	●	○			●	○
Website Development	●	○			●	○
Social Media Outreach	●	○			●	○
Collecting and Sorting Public Input	●	○			●	○
Design Support						
Develop Design Standards	●	●		●	●	○
Develop Preliminary Design	●	●	○	●	●	
3rd Party Design Review	●	●	○		●	○
Cost Estimating or Review	●	●	○	●	●	○
Construction Support						
Constructability Review	●	○	○	●	●	○
Construction Phasing/Sequencing Plans	●	○	○	●	●	○
Construction Management	●	○	○		●	○
Construction Inspection	●			●	●	○
Operations Support						
Constructability Review	●	○			●	○
Training Development	●	○			●	○
Commissioning Support	●	○			●	○
Electronic O&M Creation	●	○			●	○
Other						
Pipeline Project, 24" and below	●				●	○
Pipeline Project, 25" through 48"	●			●	●	○
Pipeline Project, 49" and above		○	○	●		○
Project Location: Washington			○			○
Project Location: Northwest (OR, ID, MT)	●	○		●	●	
Staff Involved						
Project Manager, Jon Holland	●	○	○	●	●	○
Task 2 Lead: Program Support, Mike Prett	●	●			●	
Task 3 Lead: Planning, Joel Weakland	●	●	○	●		
Task 4 Lead: Right of Way, Kari Lowe				●		
Task 5 Lead: Permitting, Jennifer Miller	●			●		
Task 6 Lead: Communications, Brett Houghton						
Task 7 Lead: Design, Joel Weakland	●	○	○	●	●	
Task 8 Lead: Construction, Jerome Duletzke	●	●		●	●	
Task 9 Lead: Operations, John Nottingham						○
Task Co-Lead: Program Support, Patrick Weber (BC)	●		○			○
Task Co-Lead: Planning and Design, Phil Walker (BC)						
Task Co-Lead: Construction, Bobbie Gilmour (KI)						
Task Co-Lead: Operations, Karla Guevarra (BC)						○
Intergovernmental Advisor, Governance, and Success Metrics, Keith Ward (BC)						○
Risk Manager and Program Start Up, Ken Kvasnicka (BC)						○
Routing Study and Facilities Plan, Bob Jossis (BC)	●			●		
Operations and Flow Allocation Plan, Alan Peck (BC)		●		●		
Geotechnical, Mark Havekost (Delve)	●	○	○	●		○
Design Standards, Michael Humm (KI)	●			●		

LOTWP Water Supply Program

LOTWP, Lake Oswego and Tigard, OR

BC managed this complex, multi-year water supply program to deliver eight critical infrastructure projects spanning 10 miles and four cities—on schedule and under budget.



The program traversed residential and arterial streets, state and federal highways, cultural resources areas, six state and local parks, two rivers, and a variety of sensitive habitats. Through day-to-day coordination, meticulous scheduling, and rigorous cost control, BC delivered the complex program on time and returned more than \$1 million in contingency funds to the owners.

Partner for the long haul. Jon and Mike saw this program from start to finish, effectively managing a multidisciplinary team of 30 subconsultants (including DEA and Delve), 3 designers (including KJ), 7 contractors, and 2 owner organizations. BC provided comprehensive support across all phases of delivery. Our team co-located with LOTWP for 5 years, working as an extension of staff to provide the required coordination and capacity. Jon and Mike developed a detailed project schedule that prioritized permit approvals and considered production rates and construction risks. We accelerated activities to secure approvals and sequenced projects with early priority to those that posed the highest technical risk, such as in-water construction of the river intake and the 3,800-linear foot (LF) trenchless crossing beneath the Willamette River. The four pipeline contracts were staggered so as not to exceed the capacity of the best regional pipeline contractors.

Preserve future flexibility. The program delivery plan incorporated input from the permitting manager, design manager, and construction manager to include all activities, relationships, and constraints—enabling us to identify a range of critical paths, allocate resources, facilitate risk-based decision-making, and build float into the integrated program schedule.

Secure optimized pipeline routes. During the planning phase, the BC team evaluated dozens of alternatives to identify the optimal route for the more than 10 miles of pipeline required to complete the supply system.

Earn and maintain stakeholder support. BC proactively engaged stakeholders, including the cities, state/federal regulatory agencies, businesses, residents, and organized opposition to address concerns, gain support, and secure needed approvals.

PROGRAM DATES

Beginning: 2010

End: 2017

PROGRAM BUDGET

Beginning: \$249M

Final: \$249M

KEY STAFF, ROLE

Jon Holland, Program Manager (PM); **Mike Prett**, Deputy PM; **Jerome Duletzke**, Pipeline Construction Manager (CM); **Joel Weakland**, Project Engineer (PE)/Pipeline Deputy CM; **Patrick Weber**, PE; **Bob Jossis**, Design Manager (DM); **Michael Humm (KJ)**, Pipeline PE; **Mark Havekost (Delve)**, Trenchless Advisor; **Jennifer Miller (DEA)**, Permitting

REFERENCE

Joel Komarek, Program Director (retired); City of Lake Oswego, 503.312.5515, jbkomarek@comcast.net

Erica Rooney, Public Works Director; City of Lake Oswego, 503.635.0264, erooney@ci.oswego.or.us

RELEVANCE TO CSP

Program Support, Planning, Design Management, ROW, Permitting, Communications and Outreach, Construction Support, Operations Support

Bull Run Filtration Program

PWB, Portland, OR

Working closely with PWB, BC is managing this legacy treatment and transmission program—including 7 miles of large-diameter pipelines—that will provide safer drinking water for nearly 1 million residents.

Partner for the long haul. BC has provided more than 50 staff and 40 subconsultants (including Delve and CEG) to collaborate with two designers, two CM/GC teams, and a large client organization. Jon led a multidisciplinary team to manage schedule/cost/quality control, risk, project definition, standards development, permitting, public outreach, design reviews, asset management, O&M support, and startup/optimization assistance. BC developed and managed a custom PMIS for document sharing and cost/schedule/risk management across 700 team members, allowing design managers and controls/risk leads to share cost and schedule updates that supported informed decisions regarding project scope, financing, project sequencing, contract packaging, and procurement in real time. We developed a detailed program schedule, including all activities, constraints, durations, and relationships, focusing on key design decisions, permit approval/appeals, production rates, and other construction risks. To mitigate risk, the schedule was validated with virtual visualization tools, sequenced to reduce local impacts, and used to jump-start critical items (equipment/materials procurements, dry season excavation, and pipeline tunneling). We promoted early program interest within the design/contractor communities and worked closely with selected firms to provide clear scopes and schedules, resolve issues, review procurement plans, and measure progress against schedule.

Secure optimized pipeline routes. Joel led the pipeline planning team to conduct comprehensive evaluations for route selection. Considerations included permitting, environmental compliance, cultural and historic resource protection, geotechnical conditions (supported by more than 20 subsurface explorations), seismic hazards, traffic impacts, hydraulics, reliability, ROW, and trenchless feasibility. Joel also coordinated a geotechnical technical advisory committee to assess seismic risks associated with significant geological features, determining how best to mitigate or avoid hazards. Alan led the hydraulic evaluation to determine required pipeline diameters and facility elevation for a wide variety of current and future scenarios.

Earn and maintain stakeholder support. The projects span two counties with restrictive transportation, zoning, and environmental conditions, requiring proactive outreach and engagement strategies.



PROGRAM DATES

Beginning: 2018

End: 2028 (anticipated)

PROGRAM BUDGET

Beginning: \$500M

Final: \$1.8B (estimated)

KEY STAFF, ROLE

Jon Holland, PM/Program Advisor; **Mike Prett**, PMIS/Program Controls Advisor; **Joel Weakland**, Pipelines Planning Lead/DM/Deputy CM; **Jerome Duletzke**, CM; **Alan Peck**, PE; **Andrew Fugal**, Pipeline Hydraulic Analysis; **Jennifer Kersh**, Pipeline Planning; **David Kelly**, Pipeline Planning/Assistant CM; **Catherine Dummer**, Cost Estimating; **Mark Havekost (Delve)**, Geotechnical, Tunnel Design; **Chris McMeen (CEG)**, Water Quality

REFERENCE

David Peters, Program

Director; PWB

503.823.2003

David.Peters@

portlandoregon.gov

RELEVANCE TO CSP

Program Support, Planning Design Management, ROW, Permitting, Communications and Outreach, Construction Support, Operations Support

P1 Pressurization Program

Tacoma Water, Tacoma, WA

BC is OA for this priority program to upgrade 26 miles of large-diameter transmission main in the South Sound—one of the primary water supply pipelines for Tacoma Water customers.



Tacoma Water's P1 consists of 26 miles of 30- to 78-inch-diameter transmission pipeline, conveying up to 67 million gallons per day (mgd) of potable water from the Green River Filtration Facility to McMillin Reservoir, south of Puyallup. P1 is comprised of multiple pipeline materials installed over decades—some as early as the 1920s. The alignment traverses varied terrain, including crossings of the White and Puyallup rivers. Over time, system and operational changes have reduced flow, causing portions of the pipeline to become unpressurized, which increases potential for infiltration. Through a regulatory-compliance agreement with Washington State Department of Health, P1 must be fully pressurized by 2051.

Partner for the long haul. Jon, Joel, Alan, and Mark helped develop the recommended 30-year capital improvement program (CIP), which includes 20 distinct improvement projects involving pipeline rehabilitation and replacement, hydraulic facilities, and pump stations. We reviewed the previously prepared implementation plan, recommended addressing additional threats to pipeline integrity, prepared CIP updates, and provided funding support. Currently, BC's multidisciplinary team (including Delve) provides program management and planning services. As the program evolves, we will provide design support and construction management. Our services include preliminary engineering design reviews, hydraulic and seismic studies, and risk management. We are also serving as OA for the Canyonfalls Creek Pump Station (CCPS) PDB project, which is on the critical path for completing other work in the program. The CCPS will enable rehabilitation of up to 15 miles of the middle section of P1 by supplying drinking water to surrounding service areas and providing capacity for growth and improved fire flow.

Preserve future flexibility. In addition to helping Tacoma Water improve the operational performance of P1, we also recommended addressing reliability deficiencies for this critical transmission infrastructure. Along with pressurization-related improvements, we have evaluated pressing needs related to pipeline condition, seismic vulnerability, and facilities to support operational changes stemming from pressurization, including transient mitigation and ability to back feed water supply through a portion of the pipeline during construction and maintenance outages.

PROGRAM DATES

Beginning: 2022

End: 2051 (anticipated)

PROGRAM BUDGET

Beginning: \$257M

Final: Ongoing

KEY STAFF, ROLE

Jon Holland, Program

Advisor/PIC; **Joel**

Weakland, PE/Planning

Lead; **Alan Peck**, Technical

Advisor/Engineer;

Patrick Weber, OA; **John**

Nottingham, Operations

Advisor; **Mark Havekost**

(Delve), Geotechnical,

Seismic, Trenchless

REFERENCE

Terry Forslund, Engineering

Manager; Tacoma Water

253.229.2713

tforslun@cityoftacoma.org

RELEVANCE TO CSP

Program Support,

Planning, Construction

Support, Operations

Support

Willamette Water Supply Program

TVWD and Cities of Beaverton and Hillsboro, OR

The WWSP is a \$1.6 billion program to provide a new resilient water supply from the Willamette River to three partner agencies: TVWD and the cities of Beaverton and Hillsboro.

The program was built via more than 20 separate construction packages. Our CSP Project Manager, task leads, and other key staff, including Joel Weakland (BC) and Michael Humm (KJ), led design of 11 packages totaling 19 miles, working closely with Jennifer Miller (DEA), Kari Lowe (CC), and Mark Havekost (Delve), who led the program's permitting, ROW, and seismic design standards development efforts.

PROGRAM DATES

Beginning: 2015
End: 2025 (anticipated)

PROGRAM BUDGET

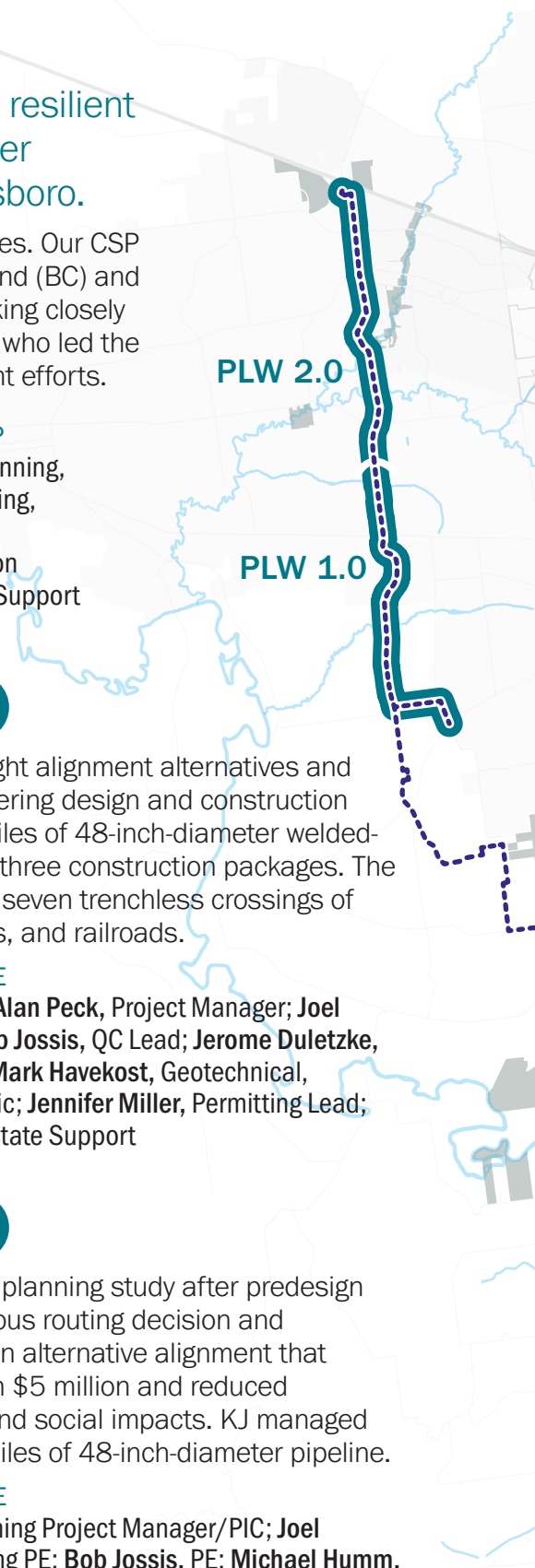
Beginning: \$1.6B
Final: \$1.6B (estimated)

REFERENCE

Mike Britch, Engineering and Construction Manager; TVWD
503.941.4565
mike.britch@tvwd.org

RELEVANCE TO CSP

Program Support, Planning, Design, ROW, Permitting, Communications and Outreach, Construction Support, Operations Support



PLM 4.0

BC evaluated two alignment alternatives and provided engineering design and construction services for 5 miles of 66-inch-diameter welded-steel pipeline in four construction packages. This project was strategically phased to take advantage of Washington County's planned road widening improvements along the pipeline corridor.

KEY STAFF, ROLE

Jon Holland, PM/PIC; Alan Peck, Technical Advisor and QA/QC; Bob Jossis, PE; Joel Weakland, PM/PE; Jerome Duletzke, Constructability; Mark Havekost, Geotechnical, Trenchless, Seismic; Jennifer Miller, Permitting Lead; Kari Lowe, Real Estate Support

MPE 1.0

BC evaluated eight alignment alternatives and provided engineering design and construction services for 7 miles of 48-inch-diameter welded-steel pipeline in three construction packages. The project included seven trenchless crossings of highways, creeks, and railroads.

KEY STAFF, ROLE

Jon Holland, PIC; Alan Peck, Project Manager; Joel Weakland, PE; Bob Jossis, QC Lead; Jerome Duletzke, Constructability; Mark Havekost, Geotechnical, Trenchless, Seismic; Jennifer Miller, Permitting Lead; Kari Lowe, Real Estate Support

PLW 1.0

KJ managed design for 4 miles of 30- to 60-inch-diameter welded-steel pipeline, including three trenchless crossings. The route traversed both urban and rural areas, requiring significant easement work within ROWs.

KEY STAFF, ROLE

Michael Humm, Pipeline PE; Mark Havekost, Geotechnical, Trenchless, Seismic; Jennifer Miller, Permitting Lead; Kari Lowe, Real Estate Support

PLW 2.0

BC conducted a planning study after predesign to revisit a previous routing decision and recommended an alternative alignment that saved more than \$5 million and reduced environmental and social impacts. KJ managed design for 3.3 miles of 48-inch-diameter pipeline.

KEY STAFF, ROLE

Jon Holland, Planning Project Manager/PIC; Joel Weakland, Planning PE; Bob Jossis, PE; Michael Humm, Pipeline PE; Mark Havekost, Geotechnical, Trenchless, Seismic; Jennifer Miller, Permitting Lead; Kari Lowe, Real Estate Support

Key Program Highlights:

- ✓ More than 30 miles of pipeline
- ✓ Diameters ranging from 30- to 66-inches
- ✓ 3 partner agencies
- ✓ 11 design packages by BC's CSP team
- ✓ Busy, high-traffic corridors
- ✓ Seismic and geologic hazards
- ✓ Coordination with local agencies
- ✓ Multiple trenchless crossings beneath highways, creeks, railroads, public transit, and the Tualatin River

Programmatic Services

DEA // WWSP Permitting

DEA's Jennifer Miller led the environmental and land use permitting for the WWSP, working closely with the owner and design teams to focus preliminary design to support permitting. Jennifer and team participated in a thorough routing analysis and developed an effective permitting strategy, including conceptual-level plans of resource crossings and a permit modification strategy, with approval from the agencies, to streamline permit modifications to reflect project changes through the progression of design and construction. The team also conducted environmental, hazardous materials, and cultural baseline surveys and supported the program through construction by providing compliance and environmental monitoring support for erosion control, fish and wildlife salvage, Migratory Bird Treaty Act compliance, and permit modifications.

Commonstreet Consulting // WWSP ROW

Under the direction of ROW Lead Kari Lowe, CC developed a comprehensive ROW strategy and conducted proactive outreach to nearly 400 landowners and prominent businesses to secure approximately 300 acquisitions, including temporary and permanent construction easements and rights of entry. Kari also led quarterly risk management meetings; managed CC's internal ROW team, outside ROW teaming agents, and appraisers; and advised project owners and leads on ROW acquisition and relocation activities. She ensured effective communication with the public and coordination with numerous agencies and utilities, including Bonneville Power Administration, Portland General Electric, and Clean Water Services, while implementing mitigation strategies aligned with aggressive design and construction schedules.

Delve // WSSP Geotechnical, Trenchless, and Seismic

Delve has been involved in the WWSP since its inception. During early planning phases, Mark Havekost and the Delve team worked with program partners to provide geotechnical engineering and trenchless design services to support route development studies, establish route selection criteria, and select the preferred route corridor. This included seismic hazard evaluation/mitigation and trenchless crossing evaluations for rivers, highways, railroads, and roadways. Delve developed pipeline design guidelines, collaborating with DEA and CC to assess construction impacts and develop mitigation measures during preliminary design, and provided geotechnical, trenchless, and seismic pipe design services for most pipeline segments, which included several water body crossings and challenging open cut sections. Delve is currently providing ESDC, including inspection of trenchless and challenging open-cut construction sections.



MPE 1.0

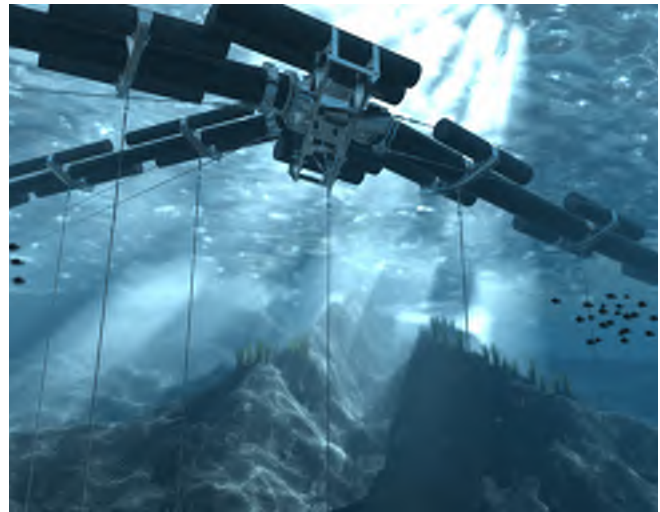
PLM 4.0

 Programmatic Services

Lake Oswego Interceptor Sewer Upgrade Program

City of Lake Oswego, OR

BC partnered with the City of Lake Oswego to tackle its largest sewer project in history—replacing a major sanitary interceptor in Oswego Lake to protect water quality and provide long-term capacity.



The City of Lake Oswego needed an affordable, long-term solution to provide reliable wastewater service to its 37,000 residents. Its original 1960s lake interceptor was deteriorating, undersized, and seismically vulnerable. BC led the effort to plan, permit, design, and manage construction of 17,000 LF of new sewer pipeline beneath Oswego Lake with the world’s first buoyant, flexible gravity sewer that is expected to serve for a century or more.

Secure Optimized Pipeline routes/Earn and maintain stakeholder support. BC led a process with the City and stakeholders to identify, screen, develop, and evaluate route alternatives to address capacity and condition deficiencies for 10 distinct reaches totaling 28,000 LF of the interceptor sewer system running the length of Oswego Lake. Evaluation criteria included feasibility (technical, economic, environmental, and public acceptance) and reliability (dependability, ease of O&M, and longevity). After significant study, outreach, and education, the City Council unanimously voted for an in-lake replacement solution using an innovative buoyant gravity pipeline to convey future build out flows and decrease O&M burdens. The solution not only provided the lowest lifecycle cost alternative, it also minimized both environmental impacts and disruption to residents. By the time construction was complete, this once-controversial project enjoyed broad public support.

Partnering for the long haul. Originally conceived as a single long-term CM/GC contract with multiple phases, BC helped significantly reduce costs by recommending a series of design-bid-build contracts, with rigorous prequalification, saving an estimated \$25 million in construction costs. As the program manager, BC led public involvement, stakeholder coordination, permitting, and construction management to deliver the award-winning program \$10 million below budget. Jon led integrated teams to coordinate across six simultaneous contracts, secure all required permits and easements, and engage the public and other stakeholders/jurisdictions. Mike managed technical staff and subcontractors; coordinated fieldwork activities; and led quality assurance/quality control (QA/QC), risk management, cost-estimating, contract document preparation, and bid-phase support services. Jerome managed construction of four of the six contracts, which required careful planning and creative solutions to address challenges, including limited access/staging areas and constrained work windows.

PROGRAM DATES

Beginning: 2002
End: 2011

PROGRAM BUDGET

Beginning: \$100M
Final: \$90M

KEY STAFF, ROLE

Jon Holland, PM; Mike Prett, Design Phase PM;
Jerome Duletzke, CM

REFERENCE

Joel Komarek, Program Director (retired); City of Lake Oswego, 503.312.5515, jbkomarek@comcast.net;

Erica Rooney, Public Works Director; City of Lake Oswego, 503.635.0264, erooney@ci.oswego.or.us

RELEVANCE TO CSP

Program Support, Planning, Design, ROW, Permitting, Communications and Outreach, Construction Support, Operations Support

Sample of Work

SECTION 6





Section 6: Sample of Work

As our sample of work, we have included the October 2020 Project Definition Report for the Bull Run Filtration Program. Table 6.1 includes a description of staff who contributed to the report and their role on our organization chart for CSP Program and Engineering Support.



Table 6.1 // Sample of work staff alignment

Key Staff	Role on Bull Run Filtration Program	Role on CSP Program and Engineering Support
Jon Holland	PM; Program Advisor	Project Manager
Joel Weakland	Pipelines Planning Lead and DM; Deputy CM	Planning and Design Support Task Lead
Alan Peck	Pipeline Hydraulics Lead	Operations and Flow Allocation Plan
Mark Havekost (Delve)	Geotechnical; Tunnel Design	Geotechnical and Trenchless Planning
Chris McMeen (CEG)	Water Quality	Water Quality and Tacoma Water Subject Matter Expert
Andrew Fugal	Pipeline Hydraulic Analysis	Hydraulic and Surge Analysis
Jennifer Kersh	Pipeline Planning	Planning PE
David Kelly	Pipeline Planning; Assistant CM	Planning PE; CM
Catherine Dummer	Cost Estimating	Cost Estimating

Standard Contract Language

SECTION 7





Section 7: Standard Contract Language

Brown and Caldwell has reviewed the sample Consultant Agreement. If awarded a contract, we request the opportunity to discuss the following changes:

CONTRACT SECTION	REQUESTED REVISION	REASONING FOR REVISION
V. COMPENSATION/ DOCUMENTATION	In A., second sentence, delete “, taxes (other than Washington State Sales Tax)” and at the end of the sentence add “(Applicable taxes, including Washington State Sales Tax and Washington Business & Occupation tax, will be added to each invoice at the current rate per the Washington State Department of Revenue.)”	As part of doing business in Washington State, BC is required to remit B&O taxes to the taxing authority. B&O taxes are not part of BC’s audited overhead rate.
	In C., fifth sentence, change “thirty (30)” to “ninety (90)”.	Thirty days for preparation of a final invoice, which may include charges from subconsultants, isn’t sufficient time for preparing this invoice.
VI. OWNERSHIP OF WORK PRODUCT	In the second sentence, line 5, insert “reuses or” before “modifies”; on lines 6-7, delete “for projects or purposes other than those which fall within the scope of this Agreement or the Project to which it relates,”	Consultant should not be responsible for any unauthorized reuse or modification of its work product.
X. HOLD HARMLESS INDEMNIFICATION	Please incorporate the following revisions within the first paragraph: delete “engineers” on line 2; insert “reasonable” before “attorneys’ fees” on line 4; on lines 6-7, replace “on account of, relating to, or arising out of” with “to the extent caused by the”; on the last line of this paragraph, delete “sole”.	These revisions are for consistency with standard wording for indemnity clauses in professional services contracts.
XII. LIABILITY INSURANCE COVERAGE/LIABILITY LIMITATION	In the second paragraph, line 4, replace “all” with “the Commercial General Liability and Automobile Liability”; on line 5, after “endorsement” insert “to the Commercial General Liability policy”	Clarifications for alignment with Brown and Caldwell’s insurance coverages.
XVII. TERMINATION OF AGREEMENT	In Paragraph D., line 10, after “relationship with Cascade” please insert “except that Consultant may keep one copy of such information for its permanent project records”	We wish to clarify the first part of this sentence which states “Consultant agrees not to keep...”.

CONTRACT SECTION	REQUESTED REVISION	REASONING FOR REVISION
XXI. CONFIDENTIALITY	<p>In the second paragraph, second sentence, line 6, replace “requesting such information” with “or its subconsultants”. Also, insert “for” before “Cascade” for grammatical clarity.</p>	<p>Consultant may have the need to share confidential information with its subconsultants.</p>
	<p>We request the following be added to this article: “Notwithstanding the foregoing, Consultant shall have no confidentiality obligation with respect to information that (1) becomes generally available to the public other than as a result of disclosure by Consultant or its agents or employees; (2) was available to Consultant on a non-confidential basis prior to its disclosure by Cascade; or (3) becomes available to Consultant from a third party who is not, to the knowledge of Consultant, bound to retain such information in confidence.”</p>	<p>The confidentiality exceptions we propose here are typical for Confidentiality provisions in professional services contracts.</p>
ATTACHMENT B - COMPENSATION	<p>In “Hourly Rates” section add “by April 1st” at the end of the sentence “Overhead rate will be submitted annually”</p>	<p>BC’s federally audited overhead rate is reviewed at the end of each fiscal year, with the auditor’s report available by April 1st</p>
	<p>In “Hourly Rates” section the profit for subconsultants is set at 11% profit.</p>	<p>BC would like to understand the rationale for the lower rate set for subconsultants and offer our perspective for consideration of adjustment.</p>
	<p>In “Rate Adjustments” section, first paragraph, second sentence delete “first” with “last”</p>	<p>BC will not have salary data for the next calendar year available until the end of November each year</p>
ATTACHMENT C. REQUIRED MINIMUM SCOPE OF INSURANCE	<p>In A. and B., after “CG 00 01” and “CA 0001” please insert “or equivalent”.</p>	<p>Brown and Caldwell’s CGL and AL insurance policies do not use ISO Forms, but coverage is equivalent to the coverage required herein.</p>
	<p>In E., line 3, after “work or Service” please insert a period and delete the remainder of the verbiage.</p>	<p>Please note unlimited tail coverage is not available. Also, tail coverage only applies if coverage is non-renewed or cancelled and not replaced.</p>
REQUIRED MINIMUM LIMITS OF INSURANCE	<p>E. Professional Liability – insert “and in the aggregate” after “per claim” and insert “the negligent acts, errors or omissions in the performance of” before “professional services”.</p>	<p>Clarifications to align the coverage requirements with policy terms and conditions.</p>

CONTRACT SECTION	REQUESTED REVISION	REASONING FOR REVISION
	F. Consultant/Contractors Pollution Asbestos Liability – Delete “Asbestos” in the title; change “occurrence” to “claim” and after “aggregate” delete “including errors and omissions”.	Revisions to clarify that Contractor’s Pollution is included under Brown and Caldwell’s Professional Liability policy. (Perhaps combine E. and F. as one coverage requirement?)
	G. IT/Technology PL Coverage – after “per claim” insert “and in the aggregate”	For consistency with policy terms and conditions.
	H. Drone Aviation Liability – delete “and \$2,000,000 in the aggregate” and “trespass, and hijack/malicious damage coverage”.	Revisions for consistency with Brown and Caldwell’s Drone Liability policy.
OTHER INSURANCE PROVISIONS	In the first of the three numbered paragraphs, line 2, delete “and boats” and delete the last sentence in its entirety.	Revisions requested for consistency with Brown and Caldwell’s insurance coverage.
	In the second paragraph, revise the first two lines to read “For any claims caused by Consultant’s performance of this Agreement where additional insured status is afforded, the Consultant’s insurance coverage shall be...”	Provide clarification that Brown and Caldwell’s coverage will be primary where Cascade, et al. are included as additional insureds.
	In the third paragraph, line 2, delete “by either party” and change “forty-five (45)” to “thirty (30)”.	Revisions for consistency with Brown and Caldwell’s policy terms and conditions.
POLLUTION LIABILITY INSURANCE	On line 2, after “asbestos exclusions” insert “or exclusions for microbial matter, including mold.” Also, please delete the last sentence.	Revisions for consistency with Brown and Caldwell’s Pollution Liability policy.
CLAIMS MADE	In the second paragraph, line 2, change “six (6)” to “three (3)”; insert “this” before “Agreement” and insert a period after “Agreement”, deleting the remainder of the sentence.	Revisions to clarify that completed operations coverage is only afforded on the Commercial General Liability policy.
	In the third paragraph, change “six (6) years” to “three (3) years” and delete the remainder of the sentence.	For consistency with Brown and Caldwell’s insurance coverages.
	Please delete the fourth paragraph in its entirety.	Brown and Caldwell is not in agreement with providing this information. An insurance certificate evidencing the required insurance (including endorsements) should be sufficient.
VIII. VERIFICATION OF COVERAGE	On line 1, after “Cascade with” insert “certificates of insurance with copies of applicable”. In the second sentence, line 2, replace “endorsements” with “certificates of insurance”. Please delete the third sentence in its entirety. In the fourth sentence, after “All” insert “certificates of insurance and copies of applicable”. Please delete the last sentence in its entirety.	Revisions requested to align this section with Brown and Caldwell’s ability to comply with the requirements.

CONTRACT SECTION	REQUESTED REVISION	REASONING FOR REVISION
IX. WAIVER OF SUBROGATION	At the beginning of the first sentence, please insert "Except coverages listed in Section II.E., II.F. and II.G. above,".	Revisions requested as a waiver of subrogation endorsement cannot be provided on all policies.
X. SUBCONSULTANTS	On line 1, please delete "and verify".	Brown and Caldwell will flow down these insurance requirements in subcontracts with its subconsultants. Some coverages may/may not apply to the services of certain subs and/or subs may not be able to meet all of these required coverages. Brown and Caldwell will communicate with Cascade if subs cannot meet the insurance requirements in this attachment and seek Cascade's approval of subs' insurance that is not fully compliant with these requirements.

References

SECTION 8





Our clients say it best.

Our team has a long history of working effectively with owners to achieve their project goals.

That strong history is a direct result of demonstrated integrity in keeping our commitments and working together for the best interests of the owner. Nowhere is that integrity put to a stiffer test than on multi-year programs. We've earned high marks from those who have seen our work over the long term. We encourage you to check with our references to learn more about what you can expect from Jon and the entire BC team.

1 **LOTWP Water Supply Program**

PROGRAM DATES

Beginning: 2010

End: 2017

REFERENCE

Joel Komarek, Program Director (retired);
City of Lake Oswego
503.312.5515
jbkomarek@comcast.net

Erica Rooney, Public Works Director;
City of Lake Oswego
503.635.0264
erooney@ci.oswego.or.us

2 **Bull Run Filtration Program**

PROGRAM DATES

Beginning: 2018

End: 2028 (anticipated)

REFERENCE

David Peters, Engineering Manager, Special Projects, Program Director; PWB
503.823.2003
David.Peters@portlandoregon.gov

3 **Willamette Water Supply Program**

PROGRAM DATES

Beginning: 2002

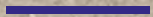
End: 2025 (anticipated)

REFERENCE

Mike Britch, Engineering and Construction Manager; TVWD
503.941.4565
mike.britch@tvwd.org

“ We needed a Program Manager we could trust, someone to lead a strong team that had done it before. We knew the challenges we'd face over the years could not all be predicted. Adaptability and experience with both program management controls and the core engineering/construction components were important. We valued timely, face-to-face interactions with a team who could stay ahead of the wide variety of issues. I can say without hesitation that my 8-year relationship with Jon Holland and his Brown and Caldwell team was very positive, rewarding, and fulfilling on all counts. You will be well served to have this team for your program.”

— DENNIS KOELLERMEIER, Public Works Director (retired), City of Tigard



Resumes

SECTION 9





Section 9: **Resumes**

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Jerome Duletzke

Construction Support Task Lead

Jerome brings 42 years of experience as construction manager, general contractor, and design project manager for large capital projects and programs.



Jerome's background includes project management, design, resident engineering, and construction management for large capital projects. He has participated in a wide variety of civil infrastructure programs, including large-diameter water and wastewater conveyance.

Participation in example projects *(see Section 4: Project History)*

- ✔ LOTWP Water Supply Program, LOTWP, Lake Oswego, OR.
[Pipeline Construction Manager.](#)
- ✔ Bull Run Filtration Program, PWB, Portland, OR. [Construction Management Support.](#)
- ✔ WWSP PLM 4.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR.
[Constructability.](#)
- ✔ WWSP MPE 1.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR.
[Constructability.](#)
- ✔ LOIS Program, City of Lake Oswego, OR. [Construction Manager.](#)

FIRM

Brown and Caldwell

LOCATION

Portland, OR

DEGREE(S)

**BS, Civil Engineering,
California Polytechnic
State University**

CERTIFICATION(S)

N/A

Secondary Treatment Expansion Program, Portland Bureau of Environmental Services (BES), Portland, OR

[Construction Manager.](#) Jerome was construction manager for this \$400 million program to provide additional treatment capacity at Portland's 450 mgd wastewater treatment plant (WWTP). The project included extensive demolition, deep soil improvements, new secondary clarifiers, a new solids handling building, and aeration basin concrete rehabilitation.

Pipeline and Pump Station Program, South Fork Water Board (SFWB), Oregon City, OR

[Construction Manager.](#) Jerome provided construction oversight for three concurrent projects, including a new 28 mgd raw water intake pump station in the Clackamas River, complete mechanical and electrical reconstruction of a 16 mgd finished water pump station, and a new 42-inch raw water transmission main.

Southwest Parallel Interceptor, BES, Portland, OR*

[Construction Manager/Engineer.](#) Jerome was construction manager for approximately 1 mile of 36- to 72-inch-diameter pipeline constructed in an existing residential street along the west bank of the Willamette River. The project included three tunnels near high-pressure gas and water mains.

**Experience prior to BC*

Bobbie Gilmour, ENV SP, CDT

Construction Support Task Co-lead; Construction Management

Bobbie has a decade of experience working side-by-side with clients and contractors in the field.



Bobbie has worked full-time in the field on projects up to \$350 million in constructed value. She provides dependable, responsive field support to project teams to help coordinate meetings, organize documents and reports, support public relations, coordinate internal/external communications, and support other project needs, as assigned.

Interbay Forcemain and Odor Control, King County WTD, Seattle, WA

Constructability Reviewer/Construction Manager. Bobbie is providing construction management oversight for two key contracts. Contract 1 includes a 36-inch-diameter forcemain replacement, construction of approximately 1,800 LF of temporary bypass pipe [primarily above-ground 42-inch-diameter high-density polyethylene (HDPE)], minor modifications to pump station controls, and replacement of existing 36-inch-diameter steel dual forcemains. Contract 2 includes extending approximately 3,350 LF of 42-inch-diameter HDPE pipe, rehabilitating approximately 2,835 LF of dual 48-inch-diameter forcemain using cured-in-place-pipe, and rehabilitating 2,000 LF of gravity interceptor using a geopolymer lining.

West Point Treatment Plant (WPTP) Power Quality Improvement Project, King County WTD, Seattle, WA

Project Control Engineer. This \$75 million project addresses power quality problems at WPTP, including the demolition of existing Building 713 and replacement/relocation of plant electrical gear and controls. Bobbie confirmed that contractor progress payments were accurate, complete, and processed through the King County PRISM system. She processed change requests and reviewed the contractor's proposals with King County's project representative, resident engineer, scheduler, and cost estimator.

Chambers Creek Regional WWTP Expansion, Pierce County, University Place, WA

Resident Engineer. Bobbie was a site inspector, construction observer, and field engineer on this \$353 million WWTP upgrade and expansion project. She helped confirm contractor compliance with contract drawings and specifications and assisted with coordinating submittals, requests for information, and change orders.

FIRM

Kennedy Jenks

LOCATION

Seattle, WA

DEGREE(S)

BS, Civil Engineering,
Seattle University

CERTIFICATION(S)

Construction Documents
Technologist,
Construction
Specifications Institute

Envision Sustainability
Professionals (ENV SP)

Karla Guevarra

Operations Support Task Co-lead

Karla brings practical experience gained by direct employment with various wastewater and drinking water utilities in Washington and California.



Karla's primary focus lies in identifying and implementing effective solutions to operational challenges, with the ultimate goal of supporting plant staff through transitions and empowering them to efficiently manage their facility. She has effectively led full-scale process upgrades, optimized treatment processes, and solved operational problems.

Offsite Facilities Program, King County WTD, King County, WA

O&M Engagement Lead. WTD needs to increase project throughput by four-fold and address critical condition and capacity needs across its wastewater conveyance system, which encompasses more than 400 miles of pipelines, 48 pump stations, and 25 regulator stations. Karla developed an O&M engagement plan based on direct feedback from King County staff. The plan focuses on recommendations to optimize O&M staff involvement on capital projects and increase O&M satisfaction.

Chambers Creek Regional WWTP, Pierce County, University Place, WA*

Operations Program Manager. The Chambers Creek Regional WWTP is an advanced treatment facility that features biological nutrient removal, sidestream treatment, anaerobic digestion, and thermal drying. Karla led a team of 2 operations supervisors, 16 operators, and 2 maintenance workers through the day-to-day operations of the facility. She provided training and mentoring to confirm operators understood process upgrades and were prepared for changing regulations. She developed and implemented standard operating procedures and confirmed compliance with regulatory requirements under the National Pollution Discharge Elimination System, Biosolids General, and Nutrient General permits.

Brightwater WWTP, King County WTD, Woodinville, WA*

Wastewater Process Engineer. Karla provided operational support in the areas of thickening, dewatering, digestion, and membrane bioreactors and was responsible for optimization of solids processes. She performed extensive troubleshooting of Brightwater's reclaimed water disinfection and distribution system and worked with O&M staff to improve reliability of the system. She identified and documented deficiencies and systematically implemented solutions, resulting in decreased outages and more stable operations.

FIRM

Brown and Caldwell

LOCATION

Seattle, WA

DEGREE(S)

MS, Environmental Engineering and Science, Stanford University

BS, Environmental Engineering Science, University of California, Berkeley

CERTIFICATION(S)

Group III Wastewater Treatment Plant Operator, No. 8887, WA

**Experience prior to BC*

Mark Havekost, PE

Geotechnical, Seismic, and Trenchless

Mark is a seasoned geotechnical engineer with 30 years' experience focused on conveyance pipeline design, tunnel design, and geotechnical engineering.



Mark brings a strong understanding of the state-of-the-practice in pipeline design and how to best balance system requirements, dependencies, limitations, and construction sequencing with geologic conditions and risks in resilient pipeline design. His relevant project experience includes the WWSP, where he led the team responsible for geotechnical and seismic evaluations for route evaluations and preliminary design along the selected pipeline route. Mark also led development of rigorous seismic design guidelines for WWSP pipelines that were later adopted for use on the Bull Run Filtration Program.

Participation in example projects *(see Section 4: Project History)*

- ✔ Bull Run Filtration Program, PWB, Portland, OR. [Geotechnical, Tunnel Design.](#)
- ✔ P1 Pressurization Program, Tacoma Water, Tacoma, WA. [Geotechnical, Seismic, Trenchless.](#)
- ✔ WWSP PLM 4.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Geotechnical, Trenchless, and Seismic Design Oversight and Review Lead.](#)
- ✔ WWSP MPE 1.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Geotechnical, Trenchless, and Seismic Design Oversight and Review Lead.](#)
- ✔ WWSP PLW 1.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Geotechnical, Trenchless, and Seismic Design Oversight and Review Lead.](#)
- ✔ WWSP PLW 2.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Geotechnical, Trenchless, and Seismic Design Oversight and Review Lead.](#)

Ship Canal Water Quality Project, SPU/King County WTD, Seattle, WA

Senior Technical Support. This \$710 million dollar program, developed to prevent more than 75 million gallons of polluted stormwater and sewage from discharging annually into the Lake Washington Ship Canal, was delivered for two agencies and supported by a program staff of 300. Work involved heavy construction activities across five urban neighborhoods and included a 2.7-mile-long, 19-foot-diameter underground storage tunnel; two 8-foot-diameter conveyance tunnels; a 12 mgd combined sewer overflow (CSO) pump station; five drop shafts with near-surface diversion structures and associated controls; and a 650-foot-long, 9-foot-diameter curved microtunnel under the canal. Mark provided technical support, including overseeing ESDC and resolving trenchless and shaft construction issues.

FIRM

Delve Underground

LOCATION

Seattle, WA

DEGREE(S)

MS, Geotechnical Engineering, University of California, Berkeley

BS, Civil Engineering, California Polytechnic State University

CERTIFICATION(S)

Professional Engineer (Civil), No. 40206, WA

Professional Engineer (Civil), No. 78358PE, OR

Professional Engineer (Civil), No. 55631, CA

Professional Engineer (Civil), No. 110508, AK

Jon Holland, PE

Project Manager

Jon has a proven track record of leading teams to successfully deliver large, challenging water and wastewater programs across the Pacific Northwest.



Jon is a creative, collaborative, and tenacious problem-solver as well as a skilled manager, leader, coach, and communicator, who draws the best from the integrated teams he builds and leads. From his public sector and consulting backgrounds, Jon brings a client perspective; ability to develop consensus among varied interest groups; an appreciation for O&M and asset management needs; and experience securing public, political, and regulatory agency support. His technical specialty is planning, design, and construction of large-diameter pipelines.

Participation in example projects (see Section 4: Project History)

- ✔ LOTWP Water Supply Program, LOTWP, Lake Oswego, OR. **Program Manager.**
- ✔ Bull Run Filtration Program, PWB, Portland, OR. **Program Manager/Advisor.**
- ✔ P1 Pressurization Program, Tacoma Water, Tacoma, WA. **PIC.**
- ✔ WWSP PLM 4.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. **Project Manager/PIC.**
- ✔ WWSP MPE 1.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. **PIC.**
- ✔ WWSP PLW 2.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. **Planning Project Manager.**
- ✔ LOIS Program, City of Lake Oswego, OR. **Program Manager.**

FIRM

Brown and Caldwell

LOCATION

Portland, OR, (relocating to Bellevue, WA, upon selection)

DEGREE(S)

MS, Environmental Engineering, Oregon State University

BS, Civil Engineering, Oregon State University

CERTIFICATION(S)

Professional Engineer (Civil), No. 25738, WA

Professional Engineer (Civil), No. 14742, OR

Offsite Program, King County WTD, King County, WA

Program Management Advisor. The 6-year, \$950 million Offsite Facilities Program aims to quadruple project throughput to address critical condition and capacity issues for more than 75 asset management, condition inspection, rehabilitation, pump station, and forcemain projects across King County's service area using a program management model. Jon is helping with startup by advising program leadership on strategies needed to streamline WTD's delivery practices.

Davis Aqueduct Reach 1 Parallel Pipeline Alignment Study, Weber Basin Water Conservancy District (WBWCD), Layton, UT

Technical Advisor. To select the least hazardous alignment, Jon worked closely with BC's national experts and specialty geotechnical, seismic geology, and seismic pipeline design partners to evaluate multiple alternative routes for a 2-mile, 72-inch-diameter water supply pipeline with significant seismic hazards, sensitive environmental areas, a highway crossing, and a complex landslide.

Brett Houghton

Communications and Outreach Task Lead

For more than 30 years, Brett has facilitated groups and processes to plan and implement inclusive community engagement and outreach efforts.



Brett specializes in engaging historically underrepresented communities and creating plans to address disparate needs. He facilitates collaboration and one-on-one engagement, providing meaningful opportunities for participation. Brett has worked directly with the cities of Bellevue, Bonney Lake, Federal Way, Redmond, and Renton as well as King and Pierce Counties, including in the Skyway neighborhood, and his work has engaged the Muckleshoot, Puyallup, and Snoqualmie tribes.

Downtown Redmond Link Extension, Sound Transit, Redmond, WA

Engagement Lead. Brett managed PRR's team to support Sound Transit in engaging with Redmond residents, visitors, and employees during construction of the Downtown Redmond Link Extension. He oversaw property owner outreach to gain access for surveys and other engineering field work and developed a presentation to share information with the community. PRR also supported the design-build team as they finalized the design and constructed the line.

FIRM
PRR

LOCATION
Seattle, WA

DEGREE(S)
BA, Communications and Women's Studies, George Mason University

Federal Way Transit Extension, Sound Transit, Federal Way, WA

Strategic Counsel. Brett supported Sound Transit's community outreach team to engage the public in the planning, design, and environmental review of the light rail extension from SeaTac to Federal Way. He developed a public involvement and environmental justice outreach plan and oversaw development of public input materials and opportunities, including a route planning game, station planning workshops, station design open house, online open house, and other informational materials. He expanded the language services on the project, overseeing translation and interpretation for six languages and helped Sound Transit implement partnerships with community-based organizations to engage limited-English, minority, and low-income communities.

Procurement Diversity and Inclusion Plan Update Facilitation, City of Bellevue, WA

Engagement Lead. In 2023, The City of Bellevue initiated an update of its Procurement Diversity Inclusion Plan. PRR facilitated a series of meetings for small business partners to inform the plan update. Brett supported City staff with planning and facilitated virtual meetings.

Michael Humm, PE

Design Standards and Design Review

Michael brings nearly two decades of experience specializing in infrastructure improvement projects, including water supply programs across the PNW.



Michael excels in leading multidisciplinary teams through all project phases, from planning and design to construction, facilitating collaboration and stakeholder engagement. Strong leadership and strategic vision enable him to seamlessly align design teams with project-specific goals, resulting in operationally sound, successful, and enduring infrastructure solutions.

Participation in example projects (see Section 4: Project History)

- ✔ LOTWP Water Supply Program, LOTWP, Lake Oswego, OR. [Pipeline Project Engineer.](#)
- ✔ WWSP PLW 1.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Pipeline Project Engineer.](#)
- ✔ WWSP PLW 2.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Pipeline Project Engineer.](#)

FIRM

Kennedy Jenks

LOCATION

Portland, OR

DEGREE(S)

BS, Civil Engineering,
Oregon State University

CERTIFICATION(S)

Professional Engineer,
(Civil), No. 76443PE, OR

Beaverton WWSP Intertie Pipeline, City of Beaverton, OR

[QA/QC Design.](#) This project installed 2,800 LF of new 24-inch-diameter ductile iron pipe. It also included a trenchless crossing of 209th Avenue in a 42-inch-diameter casing, two flow meter vaults, and three control valve vaults that provide a connection to the WWSP Tualatin Valley Highway Turnout and joint water commission transmission pipelines near the intersection of Tualatin Valley Highway and SW Cornelius Pass Road. The project included geotechnical evaluations, corrosion protection design, and seismic analysis to confirm the pipeline and appurtenances met the required design life.

North Interceptor Sewer, City of Bend, OR

[Project Engineer.](#) To accommodate Bend's growth plans and add redundancy to its system, KJ designed a sewer transmission pipeline. The project, which was divided into three phases, included approximately 37,000 LF of 36- to 60-inch-diameter gravity sewer at depths up to 30 feet. The new pipeline allowed Bend to decommission lift stations, reducing overall O&M costs.

Reservoir 18 and Pump Station OA, City of Tigard, OR

[PIC.](#) This PDB project included a new 4.5 million gallon potable water reservoir, associated pump station, and approximately 1 mile of 24-inch-diameter conveyance pipeline. KJ led site selection; supported procurement, permitting, and public outreach; performed technical design review and constructability analysis; and provided onsite construction observation and contract administration support.

Bob Jossis, PE

Routing Study and Facilities Plan

Bob has 45 years of experience in planning, design, and construction management of civil and water engineering projects.



Bob's water system background includes master utility plans, water supply development, pumping, transmission, distribution, and storage. Bob led preparation of the Project Definition Report for LOTWP and worked on the routing studies for three WWSP projects. He provides exceptional expertise in technical review and sound contract document development for major water supply infrastructure.

Participation in example projects (see Section 4: Project History)

- ✔ LOTWP Water Supply Program, LOTWP, Lake Oswego, OR. **Design Manager.**
- ✔ WWSP MPE 1.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. **QC Lead.**
- ✔ WWSP PLM 4.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. **Project Engineer.**
- ✔ WWSP PLW 2.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. **Project Engineer.**

FIRM

Brown and Caldwell

LOCATION

Portland, OR

DEGREE(S)

**BS, Civil Engineering,
Oregon State University**

CERTIFICATION(S)

**Professional Engineer,
No. 8478, OR (pending
renewal)**

Pipeline and Pump Station Program, SFWB, Oregon City, OR

Project Manager. Bob led preparation and implementation of a water supply, pumping, and treatment master plan and CIP that included pre-design, design, permit and easement acquisition, and CM services for a new 20 mgd water intake and pumping facilities, a 42-inch-diameter raw water transmission line, upgrades and expansion of an existing treated water pumping station, and a new system-wide instrumentation/control system.

Tanner Creek Stream Diversion Project, BES, Portland, Oregon

Project Manager. Bob led planning, design, and ESDC for a 7,000 LF, 72-inch-diameter storm drain pipeline as part of the City of Portland's \$14 million CSO separation project. The pipeline was primarily installed via micro-tunneling (5,500 LF). Bob was also responsible for obtaining all permits and easements and conducting the public involvement and information program.

Columbia Boulevard Wet Weather Treatment Plant Outfall Project, BES, Portland, Oregon

Project Manager. Bob led planning, design, and ESDC for a 5,800 LF, 84- to 96-inch-diameter treated wastewater effluent outfall pipeline and diffuser that included a 1,400 LF underwater crossing of the Oregon Slough and 800 LF within the Columbia River. The project included close collaboration with BES modeling staff to determine pipeline capacity requirements and sizing.

Kenneth Kvasnicka, PE, DBIA

Risk Manager and Program Startup

Ken has more than 40 years of experience delivering major programs and projects in the water and wastewater industries.



Ken has served as a program manager and program advisor for marquee water and wastewater programs around the U.S. and internationally, helping utilities including King County, WA; and the cities of Cincinnati, OH; San Jose, CA; Atlanta, GA; Detroit, MI; Los Angeles, CA; and Manchester, UK, deliver billions of dollars of infrastructure improvements.

Offsite Facilities Program, King County WTD, King County, WA

Program Management Advisor. WTD is working to increase project throughput by four-fold and address critical condition and capacity needs across its wastewater conveyance system, which encompasses more than 400 miles of pipelines, 48 pump stations, and 25 regulator stations. Ken is coordinating efforts to complete a readiness assessment based on extensive review of existing processes and procedures and interviews with utility management, functional group leaders, and staff. The assessment, which incorporates consultant team experience with similar utilities, is helping WTD identify improvement opportunities that will enhance performance and align with the utility's goals and key performance indicators (KPI).

Program Management Services, Metropolitan Sewer District of Greater Cincinnati (MSD), OH*

Program Mobilization, Major Projects Support, and Startup Manager. Ken led program mobilization and startup efforts to collaboratively develop work processes and systems to support the long-term implementation of MSD's multi-billion-dollar consent decree compliance program. Ken was also tasked with implementing a quantitative risk management approach for the major projects (in excess of \$50 million) in a portfolio of consent decree projects.

AMP3 Construction Program, Northern Area, United Utilities, Preston, UK*

Program Manager. Ken was involved with the implementation of a sophisticated risk management process on a multi-billion-dollar water and wastewater program in northwest England. The risk management methodology was applied to every project in the program and required project delivery teams to identify risks and prioritize them based on likelihood and consequences. The key value for the delivery teams was awareness and preemptive planning for potential risk events. The key value for the overall program was to develop a managed pool of money for the relatively few projects that ran into significant unforeseen issues.

FIRM

Brown and Caldwell

LOCATION

Seattle, WA

DEGREE(S)

BS, Chemical Engineering, University of Nebraska

CERTIFICATION(S)

Professional Engineer (Chemical), No. CH4428, CA

Professional Engineer, No. 6201046270, MI

Professional Engineer, No. 80346, OH

Designated Design-Build Professional (DBIA), No. 177367

**Experience prior to BC*

Kari Lowe, SR/WA

ROW Task Lead

Kari is an expert in complex real estate services for public agencies, supporting mega programs throughout the Pacific Northwest.



Kari brings more than 23 years of real estate experience supporting mega programs, including the WWSP. She communicates effectively and sensitively with clients, program teams, property owners, governmental staff, and legal representatives. Kari has extensive knowledge of the Uniform Relocation Act and ROW procedures. She excels at adapting to client processes, resolving complex acquisition issues, and safeguarding project funding and certifications.

Participation in example projects (see Section 4: Project History)

- ✔ WWSP PLM 4.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR.
Real Estate Support.
- ✔ WWSP MPE 1.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR.
Real Estate Support.
- ✔ WWSP PLW 1.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR.
Real Estate Support.
- ✔ WWSP PLW 2.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR.
Real Estate Support.

Alaskan Way Viaduct Replacement Program, WSDOT, Seattle, WA

Senior Property Management Agent. This 74-parcel, \$2 billion, WSDOT-compliant mega project and highway replacement is located in the heart of Seattle's downtown waterfront. The federally funded program involves more than 30 design/construction projects, requiring over 350 individual property rights. Kari performed cost estimates for the sale of surplus properties.

SR509 Gateway Replacement Program, WSDOT, Seattle, WA

Senior Property Management Agent. Kari led ROW efforts for this WSDOT mega project that included 98 parcel acquisitions, more than 100 residential and commercial relocations, and more than 70 parcel land exchanges between WSDOT and Sound Transit.

Levee and Pump Station Program, Urban Flood Safety and Water Quality District, Multnomah County, OR

PIC. Kari manages the ROW team and is shaping the real estate strategy for this 30-mile levee and pump station program. She advised on route selection and alternative planning and coordinates with key stakeholders to prioritize parcels, valuations, temporary/permanent easement acquisitions, franchise agreements, utility relocations, and mitigation with rail prior to construction.

FIRM

Commonstreet Consulting

LOCATION

Salem, OR

DEGREE(S)

BA, English Technical Writing, University of Oregon

CERTIFICATION(S)

SR/WA - International ROW Association, No. 6317, OR

Real Estate Principal License, No. 102000, WA

Real Estate Principal License, No. 201233922, OR

Jennifer Miller

Permitting Task Lead

Jennifer is a senior permitting strategist with more than 30 years of experience navigating the Pacific Northwest's regulatory landscape.



Jennifer has unparalleled experience permitting large-scale water supply projects across the region, including the \$1.6 billion WWSP and the LOTWP Water Supply Program, working with BC. Her comprehensive knowledge of water supply infrastructure and regional permitting requirements allows her to see the big picture as well as the details necessary to minimize potential permitting challenges and obtain the most resilient permits for the life of a project. Jennifer works with clients to plan and design their projects in a manner that best meets their needs while facilitating regulatory compliance.

Participation in example projects (see Section 4: Project History)

- ✔ LOTWP Water Supply Program, LOTWP, Lake Oswego, OR. [Permitting Support.](#)
- ✔ WWSP PLM 4.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Permitting Lead.](#)
- ✔ WWSP MPE 1.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Permitting Lead.](#)
- ✔ WWSP PLW 1.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Permitting Lead.](#)
- ✔ WWSP PLW 2.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Permitting Lead.](#)

FIRM

David Evans and Associates, Inc.

LOCATION

Portland, OR

DEGREE(S)

BS, Environmental Studies, The Evergreen State College

McKenzie River Water Supply Project, Springfield Utility Board, Springfield, Oregon

[Permitting Lead.](#) Jennifer is leading a permitting team that includes biologists, aquatic habitat and water quality modelers, cultural/archaeological experts, and hazmat experts. She is working closely with SUB and water supply engineers to develop and execute a permitting strategy that facilitates permit acquisition, maintains schedule, and reduces permitting risk over the lifetime of the project.

Willamette River Intake and Water Treatment Plant, Eugene Water and Electric Board (EWEB), Eugene, Oregon

[Permitting Lead.](#) During the initial phases of this water supply project, Jennifer worked with EWEB and water supply engineers to assess risk and develop an effective permitting strategy. She is currently serving as PIC for the DEA permitting team and supporting the permit acquisition phase.

John Nottingham, PE, WDM

Operations Support Task Lead

John brings 27 years of experience in the planning, design, and construction management of water supply and other infrastructure projects.



With experience as a District Engineer for multiple agencies across Puget Sound, John's engineering career has been divided between public service and consulting, providing him with a strong understanding of owners' needs and an operations focus.

Participation in example projects (see Section 4: Project History)

✓ P1 Pressurization Program, Tacoma Water, Tacoma, WA. [Operations Advisor.](#)

Offsite Facilities Program, King County WTD, King County, WA

OA Lead. WTD is addressing critical condition and capacity needs across its wastewater conveyance system, which encompasses more than 400 miles of pipelines, 48 pump stations, and 25 regulator stations. BC is supporting infrastructure improvements, including the Black Diamond Trunk Capacity Upgrade and Sammamish Plateau Diversion, WTD's first two linear pipeline GC/CM projects. John is coordinating with operations and engineering staff to understand and capture their needs and priorities as technical performance requirements in contract documents.

Water Filtration Plant Portal 1 Replacement, City of Everett, WA*

Project Manager. Built in 1929, Everett's Portal 1 is a key component in the transmission system that brings water from Spada Lake to the Lake Chaplain Reservoir. John oversaw project design and construction and managed the operational coordination between Everett and Snohomish County Public Utility District.

Transmission Line #4 Replacement, City of Everett, WA*

Project Manager. John oversaw design and construction for replacement of approximately 2,000 LF of 48-inch steel transmission main feeding Reservoir #4, requiring extensive coordination with City operations to confirm reservoirs were maintained at adequate levels during construction.

WFP Process Water Pump Station, City of Everett, WA*

Project Manager. The process project involved the complete rebuild of the pump station and the replacement of two 400-horsepower, pressure-driven pumps. John carefully coordinated with operations staff to keep the pump station functional throughout all phases of construction using temporary pump systems and carefully orchestrated shutdowns.

FIRM

Brown and Caldwell

LOCATION

Seattle, WA

DEGREE(S)

**Bachelors of Science
Civil Engineering,
University of Washington,**

CERTIFICATION(S)

**Professional Engineer
(Civil), No. 39893, WA**

**Water Distribution
Manager IV, Washington
State Department of
Health, No.012620**

**Experience prior to BC*

Alan Peck, PE

Operations and Flow Allocation Plan

Alan specializes in water infrastructure projects and brings expertise in master planning, design, pipelines, pump stations, and treatment systems.



With more than 40 years of experience, including working for a large water utility in Arizona, Alan's career has been focused entirely on water infrastructure projects and programs. He has been project manager or project engineer for projects involving water pipelines up to 96-inches in diameter, including trenchless crossings; 15 water treatment plant projects; 20 water reservoirs; 12 water intakes; 25 water pump stations, and numerous water supply plans and studies.

Participation in example projects (see Section 4: Project History)

- ✓ Bull Run Filtration Program, PWB, Portland, OR. [Project Engineer—Hydraulic Evaluation.](#)
- ✓ P1 Pressurization Program, Tacoma Water, Tacoma, WA. [Technical Advisor/Engineer](#)
- ✓ WWSP PLM 4.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Technical Advisor and QA/QC.](#)
- ✓ WWSP MPE 1.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, Beaverton, OR. [Project Manager.](#)

FIRM

Brown and Caldwell

LOCATION

Portland, OR

DEGREE(S)

BS, Mechanical Engineering, University of Arizona

CERTIFICATION(S)

Professional Engineer (Civil), No. 16289, OR

Water System Master Plan, City of Lake Oswego, OR

[Project Manager.](#) Alan managed the development of a water system master plan to help address Lake Oswego's water system issues, including changes resulting from supply system expansion to serve Tigard, newly understood seismic hazards from the Cascadia Subduction Zone and other earthquake sources, aging infrastructure, new demand and population projections, and regulatory and climate change risks for late summer water withdrawals.

Conduit Isolation and Improvements, PWB, Portland, OR

[Project Manager/Engineer.](#) This project focused on proposed improvements to enhance reliability, maintenance, and operation of the 44- to 66-inch steel diameter conduit system that supplies water for more than 1 million customers in the Portland area. Study tasks included evaluation of proposed conduit inerties; siting; hydraulic steady-state and transient analysis; and appurtenances, alternatives, and costs. The initial study resulted in a recommendation to build five major inerties at selected sites along the 25-mile-long conduits. Construction proceeded in two phases, totaling \$8 million in construction costs and involved significant permitting, wetland issues, and easement acquisition.

Mike Prett, PE

Deputy Program Manager and Program Support Task Lead

Mike has more than 30 years of experience managing large, complex programs for utilities, including the cities of Lake Oswego, Tigard, Portland, and Boise.



Mike's background balances technical expertise, program management leadership, and business considerations to promote program success. His well-rounded resume spans financial management, information management, project controls, PMIS implementation, infrastructure asset management, CMMS, and stakeholder communication. He is Prosci-certified and brings the skills and knowledge to effectively manage organizational change.

Participation in example projects (see Section 4: Project History)

- ✔ LOTWP Water Supply Program, LOTWP, Lake Oswego, OR. [Deputy Program Manager/Program Information Manager.](#)
- ✔ Bull Run Filtration Program, PWB, Portland, OR. [PMIS and Projects Controls Advisor.](#)
- ✔ LOIS Program, City of Lake Oswego, OR. [Design Phase Project Manager.](#)

Recycled Water Program, City of Boise, ID

Program Manager. Boise's largest capital program to date prepares for future water demand by recycling water through aquifer recharge and industrial reuse. Delivered on an aggressive schedule, the program includes new conveyance pipelines, pump stations, a water treatment facility, and a groundwater recharge facility. Mike partners directly with Boise's program manager to lead an expansive team in all aspects of program execution, including utility formation, planning, pre-design, design, CM/GC procurement, programmatic permitting, community development, public engagement, policy development, and robust programmatic controls.

CSO Program Management Phase 2, SPU, Seattle, WA

Project Engineer/Task Lead. BC assisted SPU with implementation of its CSO program to meet an Environmental Protection Agency consent decree. Mike led an alternative delivery cost estimate process improvement study to help SPU better manage costs on GC/CM projects for its largest CSO projects.

Organizational Improvement Program, Honolulu Board of Water Supply, Capital Project Division, Honolulu, HI

PMIS Lead. Mike implemented a new PMIS to enhance project delivery efficiency across all project phases. The PMIS serves as a managerial tool by providing reporting capabilities, financial information management, and document and schedule management.

FIRM

Brown and Caldwell

LOCATION

Portland, OR

DEGREE(S)

MS, Civil and Environmental Engineering, California Polytechnic State University

BS, Civil Engineering, Bucknell University

CERTIFICATION(S)

Professional Engineer (Civil), No. 61928, CA

Phil Walker, PE

Planning and Design Support Task Co-lead

Phil has more than a decade of experience navigating complex pipeline routing designs with a focus on mitigating residential and commercial impacts.



Phil's project experience includes water design, permitting, hydraulic modeling, master planning, and construction services. He has prepared and coordinated preliminary engineering reports, detailed designs, permitting, procurement documents, record drawings, and O&M documents for both municipal and private clients over a diverse range of water, wastewater, and reclaimed water projects.

Van Dyke Force Main Route Analysis, Hillsborough County, Tampa, FL

Project Manager. Phil managed a force main route analysis for approximately 9 miles of pipeline between the Van Dyke WWTP and Northwest Regional Water Reclamation Facility that evaluated 15 individual route segments using a series of qualitative and quantitative criteria to create three feasible routes for final comparison. The analysis included researching ROW, property owner data, major road crossings, existing utilities, residential and commercial impacts, and constructability; and developing a preliminary cost opinion.

Seminole Bypass Canal Force Main Replacement, Pinellas County, Seminole, FL

Project Manager/Engineer of Record. Phil led the BC team to design and oversee installation of a new 10-inch-diameter force main via horizontal directional drill underneath the Seminole Bypass Canal. The design included an evaluation of the existing geotechnical conditions and associated forces on the pipe during installation. The analysis included researching ROW, property owner data, major road crossings, existing utilities, residential and commercial impacts, and constructability. BC also developed a cost opinion and provided construction management services.

Utility Relocation, Florida Department of Transportation (FDOT), Manatee County, FL

Project Manager. BC served as the owner's representative for the relocation of existing pipelines in the area of a proposed road widening. Phil's team reviewed existing utilities within the FDOT project area to identify conflicts, updated the utility relocation plans and conflict matrix, and provided plans, specifications, and a cost opinion for the proposed relocations. BC also coordinated with FDOT's utility coordinator to complete each phase of the design and helped the client the transition the project from design-bid-build to design-build, including revisions to the schedule and associated deliverables.

FIRM

Brown and Caldwell

LOCATION

Tampa, FL (relocating to Seattle, WA, in 2026)

DEGREE(S)

MBA, University of South Florida

BS, Civil Engineering, University of South Florida

CERTIFICATION(S)

Professional Engineer (Environmental), No. 83415, FL

Keith Ward, PE, PMP

Intergovernmental Advisor, Governance, and Success Metrics

Keith has three decades of experience delivering high-profile, complex infrastructure projects and programs.



Keith has 33 years of experience in the planning, design, and construction of complex and highly visible utility, civil, and environmental infrastructure projects and programs. Recognized as an expert and instructor in project and program management, as well as team and organizational leadership, he is passionate about effective engagement with communities.

Offsite Facilities Program, King County WTD, King County, WA

Advisor. WTD needs to increase project throughput by four-fold and address critical condition and capacity needs across its wastewater conveyance system, which encompasses more than 400 miles of pipelines, 48 pump stations, and 25 regulator stations. Keith helped lead development of the program's strategic framework, which outlines the goals, metrics, and strategies to help WTD achieve its program goals and KPI. He has played a key role in facilitating workshops to foster alignment between WTD staff and leadership and provided strategic support to evaluate and enhance current practices in functional areas including risk management, project controls, intergovernmental relations, communications, and permitting.

Ship Canal Water Quality Project, SPU/King County WTD, Seattle, WA*

Project Executive. This \$710 million program was developed to prevent more than 75 million gallons of polluted stormwater and sewage from discharging annually into the Lake Washington Ship Canal. It included a 2.7-mile-long, 19-foot-diameter underground storage tunnel; two 8-foot-diameter conveyance tunnels; a 12 mgd pump station; and heavy construction activities across five urban neighborhoods. Keith led the program that brought together two agencies, six consultant teams, and three contractors to work as an effective team. He also led the successful resolution of major claims and disputes; worked with a variety of city, county, state, and federal elected officials; and spearheaded strategic improvements to the program, including development of a project controls office and safety/wellness programs.

Project Management Office (PMO), SPU, Seattle, WA*

PMO Executive. SPU needed to improve its delivery capability to concurrently deliver more than \$1 billion in complex, high-value projects across its portfolios. Keith led the development and adoption of SPU's enterprise-wide project management methodology, using an innovative pilot project approach on 23 high-profile capital projects, and training more than 400 SPU staff.

FIRM

Brown and Caldwell

LOCATION

Seattle, WA

DEGREE(S)

**BS, Civil Engineering,
Michigan State University**

**MS, Civil Engineering,
University of Washington**

CERTIFICATION(S)

**Professional Engineer
(Civil), No. 34478, WA**

**Project Management
Professional (PMP),
No. 1777606**

**Experience prior to BC*

Joel Weakland, PE

Planning Task Lead and Design Support Task Lead

Joel brings extensive experience in planning, design, and construction of large-diameter water pipelines throughout the Pacific Northwest.



Joel has nearly 15 years of experience in civil engineering and construction management. He was the deputy construction manager for 10 miles of large-diameter pipeline for the LOTWP and the engineer of record for 5 miles of large-diameter finished pipeline for WWSP (PLM 4.0). Additionally, he assisted with predesign for 33,000 feet of pipeline for WWSP (MPE 1.0 and PLW 2.0). Joel was also the program management team lead for pipelines on the PWB Bull Run Filtration Program, which consists of approximately 7 miles of new large-diameter water pipeline.

Participation in example projects *(see Section 4: Project History)*

- ✔ Bull Run Filtration Program, PWB, Portland, OR. [Pipelines Planning Lead, Design Manager, Deputy Construction Manager.](#)
- ✔ LOTWP Water Supply Program, LOTWP, Lake Oswego, OR. [Project Engineer, Pipeline Deputy Construction Manager.](#)
- ✔ P1 Pressurization Program, Tacoma Water, Tacoma, WA. [Project Engineer/Planning Lead.](#)
- ✔ WWSP PLM 4.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Project Manager/Project Engineer.](#)
- ✔ WWSP MPE 1.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Project Engineer.](#)
- ✔ WWSP PLW 2.0 Water Supply Pipeline Design, TVWD and City of Hillsboro, OR. [Planning Project Engineer.](#)

FIRM

Brown and Caldwell

LOCATION

Portland, OR

DEGREE(S)

**BS, Civil Engineering,
Portland State University**

CERTIFICATION(S)

**Professional Engineer
(Civil), No. 84941, OR**

Cornelius Pass Road Alignment Evaluation, TVWD and City of Hillsboro, OR

[Project Engineer.](#) TVWD and Hillsboro brought on BC to re-evaluate a portion of the preliminary design alignment. Joel led route selection, prepared preliminary plan and profile drawings, and developed the final report, which recommended a new alignment that reduced the pipeline length by approximately 5,200 LF. This provided cost savings, reduced stream crossing impacts, improved neighborhood access, and minimized traffic disruptions.

Davis Aqueduct Reach 1 Parallel Pipeline Alignment Study, WBWCD, Layton, UT

[QA/QC Reviewer.](#) Joel reviewed deliverables and performed QA/QC of detailed design plans to select the least hazardous alignment for a 2-mile, 72-inch-diameter water supply pipeline with significant seismic hazards, sensitive environmental areas, a highway crossing, and a complex landslide.

Patrick Weber, PE, PMP, DBIA

Program Support Task Co-lead; Procurement Support and Advisory Services

Patrick has supported the cities of Tacoma and Everett, King County, SPU, and other Washington jurisdictions with PDB and GC/CM projects.



Patrick has performed OA services on more than 25 projects, including 11 Washington projects. His work has included delivery method evaluation, Capital Projects Advisory Review Board approval, procurement support, technical requirements development, design and construction oversight, and strategic and contractual advisory support. His potable water experience includes water treatment facility planning, water system planning and analysis, water source of supply analysis and source approval, water treatment and distribution system design, and water system hydraulic modeling.

Participation in example projects (see Section 4: Project History)

- ✔ LOTWP Water Supply Program, LOTWP, Lake Oswego, OR. [Project Engineer.](#)
- ✔ P1 Pressurization Program, Tacoma Water, Tacoma, WA. [Owner's Advisor.](#)

Jefferson and Hood Surface Water Interceptor,
City of Tacoma, WA

[Project Manager/Owner's Advisor \(PDB\).](#) Patrick served as the project manager and a core member of the OA team for the procurement, design oversight, guaranteed maximum price negotiation, and construction oversight of this \$27 million PDB project that included 3,200 LF of new 48- and 60-inch-diameter stormwater conveyance pipeline and a new outfall to Thea Foss Waterway. The project was located in the core of downtown Tacoma and included significant permitting efforts, challenging geotechnical and groundwater conditions, trenchless crossings of major transportation corridors, existing soil and groundwater contamination, cultural resources sites, and mitigating construction impacts to businesses and the public.

Offsite Facilities Program, King County WTD, King County, WA

[Deputy Program Manager/OA Lead.](#) WTD needs to increase project throughput by four-fold and address critical condition and capacity needs across its wastewater conveyance system, which encompasses more than 400 miles of pipelines, 48 pump stations, and 25 regulator stations. As lead OA for collaborative delivery methods, Patrick is helping WTD navigate its first three PDB projects, and first two linear GC/CM projects, encompassing more than 13 miles of new and rehabilitated large-diameter pipelines.

FIRM

Brown and Caldwell

LOCATION

Seattle, WA

DEGREE(S)

**MS, Civil (Environmental) Engineering,
Trinity Fellow,
Marquette University**

BS, Mechanical

Engineering, Santa Clara University

CERTIFICATION(S)

Professional Engineer (Civil), No. 46440, WA

Project Management Professional (PMP), No. 2022370

Designated Design-Build Professional (DBIA), No. D-3766



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