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Publisher's Note

Greetings all,

These 6-month intervals between newsletters seem to be moving by quicker with each passing year. This is my 10th year of doing the newsletter and, hard for me to believe, my 50th year with CH2M as of June 19. It's been quite a journey from 1967 in Corvallis to Portland and Dallas/Fort Worth in 1983 as the first full-time employee in Texas. Obviously, there have been many positive changes along with some challenges over the years, but I'm thankful to be able to continue as a volunteer staffer and help provide support for the different retiree/alumni community activities.

Vicki Starr, our esteemed newsletter layout/delivery expert for well over 10 years (back when Jim Howland was still involved with the newsletter in Corvallis), just retired after 25 years. We greatly appreciate her many years of dedicated service, marvelous talent and good humor (be sure check out her special article in this issue). Sarah Harter is making her debut with us for this issue (heartily endorsed for her expertise by Vicki!), and we joyfully welcome and appreciate her joining our team.

I'm pleased to announce that "Jacque's News Update" will be provided to our readers in a special mailing following the company's Second Quarter Report on August 10, in keeping with the SEC disclosure rules the company must adhere to, while providing the most up-to-date information about the company's news and outlook for the remainder of 2017.

We always appreciate your updates, stories, comments, kudos/feedback and leads for other people stories. The need is greater than ever for your help and participation! As you'll note, we've added another section for sharing one-liners, photos, highlights, celebrations, etc. with minimum preparation needed by you...just send it in! That's what makes it your newsletter. Here's hoping the best for you and yours this summer and into the holiday season!

Cheers! *Gordon*

(Gordon.Koblitz@ch2m.com)

Retirees/Alumni News

LIFE AFTER CH2M

By Elisa Speranza (elisamariesperanza@gmail.com)

I've always enjoyed my relationship with the men and women who helped build CH2M, and I was glad to join their ranks in December 2016 as a full-fledged alumna, after 15 terrific years. Since then, I've been busier than ever, working on my combo-platter "encore" career: consultant/teacher/board member.

I stepped off the Board of the U.S. Water Alliance in December, and stepped right into a part-time senior fellow role with the non-profit group. It's great to be back in the water world, and I was invited to give a keynote speech at the American Water Works Association (AWWA) California/Nevada Section of AWWA in April. (If you really want to geek-out, you can read a [blog post](#) based on that speech.) In June, New Orleans hosted the Alliance's "One Water Summit," a gathering of almost 600 people from all over the country, working together to advance a sustainable water future for all. I've also been supporting the Alliance's policy work on equity and environmental justice, and promoting a "one water" approach to integrated water management.



Elisa and Jon on vacation in Cuba in December 2015.

In addition, through my company Seventh Ward Strategies, LLC, I've been busy with consulting engagements for the AWWA, the Water Research Foundation, and the Sewerage & Water Board of New Orleans. I'm also a senior advisor to Encourage Capital, an impact investment firm working to develop stormwater projects through green infrastructure approaches. I've been teaching at the University of Colorado at Boulder since 2008, and I still get to do that a few times a semester. (We teach graduate level civil engineering students about things like leadership, management, communications and ethics—what could be more fun?)

One of my most humbling experiences while at CH2M was being elected to serve as an employee-director on the company's board. I learned a lot, especially being on the board during a somewhat turbulent time. I've had a lot of non-profit governance experience too, and I'm looking to parlay all that into corporate board service in the future. In June, I was named to a board committee for a publicly traded company out of Quebec, H2O Innovation.

In my spare time, I'm helping a local non-profit housing developer, SBP, with a leadership development program, and of course still doing whatever I can to help Water For People. And if you get me over a beer or two, I'll tell you about the novel I'm writing.

Like many of my fellow alumni, I still have stock and friends at the company, so I'm certainly rooting for CH2M to emerge from this challenging time strong and successful. I'm a native Bostonian (Go Red Sox!), and get back to New England a few times a year. Jon Kardon and I live in an 1840s Creole Cottage in the Faubourg Marigny neighborhood of New Orleans, a block from the French Quarter, and four blocks from Frenchmen Street, the center of the music scene here, which we love. I'm active on LinkedIn, Facebook, and Twitter, so hit me up with a connection and let's stay in touch!

“DO GOOD WORK, MAKE A PROFIT, ENJOY LIFE” TRANSLATES TO RETIREMENT

By Kathy Freas (kefreas1@outlook.com)

Like so many alumni and active employees, I was drawn to the firm by the simple but powerful principles of Jim Howland's *Little Yellow Book* that underpin CH2M's culture. As evidenced by alumni updates in this newsletter, these values continue to inspire and drive us in our “second careers.”

After retiring in 2014 as a Fellow in Water Resources, I assessed my second career options evaluating strengths, weaknesses, opportunities, and threats (yes, a good old fashioned SWOT analysis) that I learned over the years working with clients and colleagues during my 24 years with the firm. I distilled my initial second career priorities to:

- Working with people in need through community services and ministries
- Working with kids and youth in our mountain community to generate excitement for and enhanced quality of STEM (science, technology, engineering, and math) education.

After a bit of casting around, I have been fortunate to find two outreach commitments that allow me to contribute to our local and regional Albuquerque community to support these priorities.

Meals on Wheels (MoW). Meals on Wheels provides services (including regular and specialized medical diets and “Love on a Leash” pet diets) to people who because of age and/or disability are unable to provide healthy options for themselves. Far from being just a meal delivery program, MoW volunteers often develop friendly relationships with our clients, many of whom have no family or close friends.

Heeding a call for service, eight of us from our local Mountainside United Methodist Church established two MoW delivery teams. We deliver food and connection for about two dozen people 2 days a week, reaching out to identify and support the lives of our clients.

One of our clients, Betts, suffers from moderate dementia and lives alone with her rambunctious two-year-old pup, Tucker. Betts loves and dotes on Tucker, but he is a bit much for her to handle and, as a result, they may not be able to stay together as Betts' disease progresses. Through MoW, I have permission from



Photo courtesy of Meals on Wheels

Betts' family to offer her dog exercise and obedience training a couple of days a week. With any luck, this experience will keep them together longer and improve their quality of life. I am blessed in my relationship with MoW and people like Betts to be able to make this kind of difference in two lives and I look forward to other relationships through MoW to be of service.



Photo courtesy of Central New Mexico Science and Research Challenge

STEM Magnet Education. Recruited in 2016 as a judge for the local chapter of our state-wide University of New Mexico STEM Science Fair, my desire to enhance robust science and other technical training for kids and youth has found an outlet to support information and curriculum development for our local STEM magnet schools.

The Science Fair program initiates kids and youth to the development of critical thought, problem-solving processes, and most important, “asking the right question.”

Judging at the 2016 Science Fair introduced me to the local STEM “machine” of educators and other professionals and volunteers who are committed to offering our clients (students) the highest possible quality instruction and interactive learning environments. High-quality STEM curricula are used in local STEM magnet schools in our mountain community. Our goal is to create upcoming generations of bright, excited, educated, and committed “STEMers” who can effectively problem-solve current and future challenges and opportunities—and pass on to the next generation their involvement in STEM programs.

As for continuing the simple but powerful principles on which our firm was founded, I believe that my current volunteer commitments constitute “doing good work.” My volunteer involvement surely helps me “enjoy life,” and in terms of “making a profit,” while standard revenue measures don’t apply, my personal return on investment is immeasurable. I am grateful for my years and experience at CH2M that prepared me for a rewarding “second career” and I look forward to other and additional opportunities to serve.

LOTS TO CELEBRATE

By Ignacio Garcia (garcia@bellsouth.net)

Dr. Ignacio Garcia, who joined CH2M in 1959, retired in 1992, after serving as vice president and Southeast District discipline director for the geosciences, including geotechnical engineering and groundwater resources. From 1977 through 1991, he served as director of groundwater resources for the firm. Ignacio writes of his busy summer so far:

This summer, and particularly the month of June, has been a very busy with many good celebrations. June first was my 90th birthday. Saturday, June 3, my family and friends gave me a surprise lunch, which was attended by 27 of our immediate family (children and their spouses and grandchildren and great-grandchildren)!

Also, my wife Carmen and I celebrated 66 years of great marriage on June 24. And to cap it all off, we are celebrating a granddaughter’s wedding in Claremont, California, on July 8!



From left to right, Emmette Waite, Dr. Ignacio Garcia-Bengochea, Jack Smith, and miniature horse “Muffy”.

CELEBRATING THE BIG 7-0

By Sue Fleming (suefleming@gmail.com)



Murry celebrating his birthday with several of his grandchildren.

It was a grand celebration, the highlight being cards made by the grandkids, accompanied with lots of hugs and kisses, culminating with a box full of birthday cards from friends and family that Sue had solicited as a surprise. It worked! Murry was very touched by the response from so many.

Murry has tried to completely retire from CH2M but continues to help with the startup of the Arkansas River Low Water Dam projects due to his long-term history and background with the team and the client. He still finds it very satisfying to work with clients on finding project solutions!

You can keep in touch with Murry at murry.fleming@gmail.com.

REFEREEING THE GAME

By John Echternach (jechtern@gmail.com)

I was recently added to the referee staff of both the SOCON (Southern Conference) and the SAC (South Atlantic Conference) as an observer and instant replay review official in the press box. These conferences involve college football teams mainly located in Alabama, Georgia, North Carolina, South Carolina, Tennessee, and Virginia.

While I'm looking forward to the games, I've spent quite a lot of time studying the NCAA college football rules, especially memorizing a 217-page rule book and the instant replay protocols! I've also been studying for two, 100-question tests and 22, 10-question quizzes (I passed the national Instant Replay Official exam with a score of 94!), as well as attending several preseason meetings where we watch game films and review calls made on last year's games to improve our own ability to make the correct call.

After all these preparations and tests, I'll be receiving my assignments for the upcoming season. I probably won't be traveling any further than Alabama and Tennessee, with most of the games in North Carolina. Luckily, my wife Jean Ann is as excited about this new venture as I am, because many of the campuses in the named conferences are said to be some of the most beautiful in the country. We love visiting these college towns.

Now when the game you're watching is endlessly held up and your favorite team is on the sidelines as the referee announces that "the play is under further review," it might just be me holding you up!!

Wishing all of my fellow retirees good health, and pursue those hobbies, folks, it keeps you young.



Murry and his mother enjoying birthday greetings.

A ONCE IN A LIFETIME SOLAR ECLIPSE COMING TO THE U.S.!

By Art Storbo (astorbo@nwlinc.com)



Art standing under the forward end of Lowell Observatory's Discovery Channel Telescope. It was pointed down to horizontal so visitors could look into its primary mirror, 4.2 meters (14 feet) in diameter.

Hey folks, this is a BIG EVENT, and Madras, Oregon, will probably feel like Woodstock before it's over! Viewing spots across the country are predicted to have massive crowds along the path of totality. Sharon and I have committed to helping Lowell Observatory (LO) with its booth at the Madras ballfield, so we're stuck with the crowds. We're staying in Bend prior to eclipse day, and we've learned recently that our bus (part of the Lowell package) will be leaving Bend at 2:30 a.m. to arrive in Madras by 6 a.m.—this decision based on Oregon DOT traffic predictions!! We'll be helping LO staff with telescopes for public viewing on eclipse day, and will be tied up with other LO activities August 20–22.

Sharon and I became members of LO's advisory board in May—we sort of fell into it through numerous contacts over the past 5 years, including the Chile trip last fall to visit world-class observatories. This board is not like a board of directors, but more like a citizens' advisory committee—we're the eyes and ears for LO in the Seattle area. LO has two missions: one is cutting-edge astronomy research in our solar system and other nearby solar systems, and the other mission is public outreach, with the intent to become the number one astronomy destination in the U.S. for students (especially for STEM—science, technology, engineering, and math), as well as adults. Our reward for doing volunteer and promotional work is that we get to rub shoulders with real astronomers, who are always ready to share their knowledge and latest discoveries (like engineers who always want to talk about their latest wastewater treatment plant).

An example of what we do occurred recently, which we helped arrange. An LO astronomer gave a presentation at Bellevue College about formation of our solar system and the myriad of

asteroids and planetesimals at the snow line (asteroid belt between Mars and Jupiter) and out beyond Pluto in the Kuiper Belt. He was followed by a mechanical engineer from Planetary Resources (located in Redmond) who talked about mining these small bodies for metals and water ice to make hydrogen/oxygen fuel for interplanetary vehicles on their way from Earth to Mars or other destinations. This is no longer science fiction—they expect to have a “gas station” at one of these asteroids within 30 years, and seem to be well-funded with private money.

On a more personal note, all's well with us. We just returned from a 16-day trip to Pennsylvania, where we attended a family reunion on Sharon's side, spent a couple days at a B&B in Amish farm country, then 5 days in Philly absorbing Revolutionary War history, and 5 days in Gettysburg absorbing Civil War history. While Sharon drove, I read my Roadside Geology of Pennsylvania book and learned much about the geologic history of Pennsylvania. Great fun!

STAYING BUSY

By Glenn Daigger (glendaiggr@comcast.net)

Greetings from Ann Arbor, Michigan! As some of you may know, I took advantage of the voluntary retirement program in 2014, but I have not retired. As I was finishing up at CH2M, I formed an LLC called One Water Solutions to allow me to continue to be active in the profession. But, the big change was accepting an offer to join the University of Michigan (U-M) as a Professor of Engineering Practice. This is an opportunity that U-M offers to folks like me and offers many of the benefits of full-time faculty, but with fewer of the direct responsibilities. Essentially, the role is to be a bridge between the academic world inside of the university and the practice world outside. This allows me



to divide my time between the university (still the majority) and practice (the minority), which I do through One Water Solutions.

To fully engage with U-M, in the spring of 2015 my wife Patty and I sold our house in Colorado and bought a house in Ann Arbor. Here now for about 2 years, we are pretty well settled in. My “academic home” here is in the Department of Civil and Environmental Engineering, joining another CH2M alum, Professor Nancy Love, who was with the firm in Dallas for a while between her master’s degree at Illinois and PhD at Clemson (with Les Grady, my major professor as well). U-M is a top 5 Environmental Engineering program (and Civil is top 10), so I’m enjoying working with a lot of great colleagues, and my wife and I have discovered that Ann Arbor is a great place to live. So, all good! I continue to be engaged with utilities around the world, including several with CH2M. Going at about the same pace as always, and having fun. Life is good! Cheers to all our friends.

New Retirees/Alumni

A NEW ADVENTURE

By Vicki Starr (vickikaykim@gmail.com)

After 25 years with CH2M, and countless retiree/alumni newsletters, our “star” newsletter delivery expert, Vicki Starr, has decided to try out retirement. A group of friends and colleagues recently gathered for a Happy Hour goodbye gathering in Portland, Oregon, where they presented Vicki with a small printed booklet of sentiments and well wishes from the many CH2M staff who had the pleasure of working with her over the years. The group also presented her with a selection of Oregon-themed gifts as a reminder when she starts her new adventure in Boston!

Vicki also got treated to a farewell BBQ with several members of her long-time Corvallis group, hosted by Justin Martin and attended by retired CH2Mers Carl English-Young, Barbara Spreadbury, Lyn Larson, Carol Harms, and Larry Weymouth. It was a great get together, fun, food, and a lot of catching up!

Of her move, Vicki writes:

Dear CH2M Family and Friends, after 25 amazing years, I’m leaving CH2M for a grand new adventure! My husband, Gary, has taken a job near Boston, Massachusetts, and I’m going with him (of course!) I’m going to try NOT working for a while and see how I like it.

May was my 25-year anniversary with the company. I have fond memories of the Corvallis office and our birthday parties, late night proposal adventures, and more. The Portland office took me in after our family moved from Philomath to Beaverton. I’ve worked from home most of that time so I don’t have all the shenanigans to remember like I do with the CVO folks, but you always made me feel at home. Proposal work also took me to Doha, Qatar, Bristol, London, Denver, and Richland where I



made so many friends and had so many adventures. Sticky Toffee Pudding anyone?

It has also been my pleasure and honor to have worked with you on the newsletter for so many years Gordon, and your newsletter predecessors. Having “grown up” in Corvallis working with Jim Howland, Fred Harem, and others, I have always had a heart for our long-timers and their values and faith in our company and their love for the newsletter.

Work has always had its ups and downs, but overall, I’ve loved my job and all of you that I’ve worked with through the years. I’ll miss interacting with you (but I won’t miss the work!).

Thanks for all the fun and friendship!!

MIKE BASTIAN



In March, a large group of Dallas/Fort Worth employees gathered to send off Mike Bastian to his retirement, after nearly 19 years with CH2M and a 35-year career in the environmental and water business. As a vice president and area manager with the firm, Mike managed the DFW office's highly successful water quality programs, such as Trinity River, as well as terminal improvements at Dallas/Fort Worth International Airport.



Many of the staff attending his retirement luncheon noted Mike's technical expertise and leadership over the years and his dedication to protecting vital watershed resources, as well as his mentoring and guidance provided to junior staff. Best wishes to Mike on his retirement! He can be reached at bastian.michael182@gmail.com.

*Mike and Will Barresi, Dallas/
Fort Worth Area Manager.*

CH2M, A FAMILY AFFAIR

By Sheila Beyer (Sbeyer1956@comcast.net)

I started with CH2M in the Corvallis office in June 1979 (employee #3541), took some years off to raise three children, and then returned to finish out my CH2M career late in 2016, with over 28 years, working in software procurement and software asset management. Early in my tenure as an engineering technician I met my husband, Rick, who also worked at CH2M. We were both engineering technicians (drafting on the board) and, immediately after we married in 1980, we spent time in the Boise, Milwaukee, Portland, and Seattle offices working on various large projects. Rick spent almost 20 years with CH2M as an electrical utilities engineering technician before moving on with several former CH2M employees to form Triaxis Engineering.

My son, Scott Beyer, studied electrical engineering at Oregon State University and is still proud to have a *Little Yellow Book* that was personally signed by Jim Howland. Also, one of our daughters, Erin Van Cura, worked as a project accountant in the Corvallis office for 8 years before becoming a stay-at-home mom.

My husband is not yet retired, but we have been trying to get our new fifth wheel camper out a few times a month. We also enjoy gardening and time with the grandkids. During our retirement, we hope to see more of the country, travel with friends, and take a few cruises (Alaska and the Panama Canal). Looking back, it's been good to remind myself of how much CH2M was a part of our family, and a large part of our life.



*Sheila with her husband Rick, in Londonderry,
Northern Ireland*

NEW OPPORTUNITIES

By Tonya Amidon (tramidon@comcast.net)



I worked in the Corvallis office for 25 years (just days' shy of 26 years). I started working in the Copy Center, and after 4 months became an administrative assistant for the Environmental Group, working on projects for Teledyne Wah Chang, Weyerhaeuser, McClellan Air Force Base, Ormet, and Port Arthur, to name a few. I eventually joined the Design Automation Group as a software buyer. Which means, I purchased software for the firm.

I recently joined Precision Approach Engineering, Inc., an aviation engineering consulting firm. You might recognize some of Precision Approach's founders: Rob Norton, Terry Kessler, Gail Goetzinger, John Arico, and Cheryl Popken. Each has been a former employee or associated with CH2M. My transition has had a natural flow. Day one I remember feeling a bit like a duck out of water, but fast forward 7 months, I'm now feeling like a valuable team member. I still get to be involved with contracting and adding newer skills to my tool box. I'm excited about the opportunities I have ahead of me, and I'm still very proud to have been an employee of CH2M. Over the years many co-workers became not just lifelong friends but family. I know that statement gets overused but in this case I truly mean it. My husband, Dean, and I have a daughter who went through some medical issues back in 2002. I can't begin to express how grateful I am to have had my CH2M family beside us during those difficult times. I would love to give a shout out to specific people but there are so many that come to mind and I would feel awful to forget a name. Sincerely, you have my thanks. Keep in touch!

PAUL JOHNSON

By Paul Johnson (ptjohnson58@gmail.com)



After 30 years of service, I've joined the ranks of CH2M's alumni. During these years I've had the privilege of working on a variety of projects, including hospitals, detention centers, transportation and water/wastewater projects. As a Certified Value Specialist, I've also led more than 250 value engineering (VE) studies—I had the best job at CH2M, because leading VE studies allowed me to work on all of the firm's major project types across the U.S. and Canada and even the Middle East, with hundreds of our professionals from all disciplines, bringing significant value to our clients in the form of cost savings without compromising the functional requirements of our projects.

I attribute this success to several of our distinguished alumni including Mike Doleac, Don Ulrich, and our late colleague Gary Morgan. These trusting individuals brought me on board in our Seattle office in 1987, sent me to the 1-week VE Module I training, then turned me loose!

I probably drove our architects in Seattle crazy with all my questions and a determination to functionally improve designs for new schools and save money for our clients!

Following 5 years in the Seattle office, my family and I transferred to the Boise office where I worked with Ed Sloan and took on more senior construction management roles and began leading VE studies on transportation and water projects around the firm.

I recently spent 2 years in Qatar leading a staff of logistics professionals in developing numerous initiatives to help Qatar prepare transportation, utility, and stadium/precinct infrastructure for the 2022 World Cup.

I've recently accepted a position with HDR in Honolulu, where I will serve as director of risk management on the Honolulu Authority for Rapid Transportation (HART) program. I'll be working with staff from numerous consulting firms, including CH2M, who is the general engineering consultant on the program. While I've taken on a new role, I still consider myself a CH2M alum, and I want to extend my deepest appreciation to all the CH2M alumni and employees, colleagues, and clients, for the many opportunities and rewarding experiences I've had over the past 30 years!

HELLO, RECENT RETIREES/ALUMNI

In addition to the folks above, the following staffers retired or left CH2M in the last 6 months with the CH2M companies.

IMPORTANT NOTE: CH2M now only provides the names of staffers who retire or leave the firm voluntarily. **Therefore, we need everyone's help to let us know of individuals who left involuntarily and might wish to join the Alumni network.** Please contact Gordon.Koblitz@ch2m.com or Alumni.Relations@ch2m.com so we may respond or contact them. Thanks!

Gregory Palmersheim	Raluca Constantinescu	Michael Montney	Samantha Bennett
Brooks Gummow	Janice Drake-Guy	Nayan Kumar Panchal	Anish Dhoreliya
Serge Grebenshikov	Lamis Baki	Kodali Santhu	Alan Capell
David Percival	Waad Siyam	Scott Davenport	Susipatro Mancha
Celeste Coffman	Joel Rodriguez	Jennifer Pfeifer	Ibrahim Zoghbor
Allison Dupont	Garry Nash	Tara Glenna	Karthick Balu

Special Announcements!

WESTERN REUNION 2018—DENVER

By Jim Schwing (jimschwing@msn.com)

*The 2018 Western ReUnion will be held in Denver in September 2018; the exact dates to be determined. Initial planning had the reunion being held in Salt Lake City, but because of the lack of a large cadre of retirees in Utah who could provide support, the ReUnion Core Committee decided to hold the event in the Denver area where there is large population of retirees. Denver's central location is also appealing to retirees and alumni from either coast. We are beginning to organize volunteers in the Denver area to form the core of a local planning committee. **Anyone wishing to help, feel free to contact me at jimschwing@msn.com or 801-824-5525.***

RETIREE STOCKHOLDER DIRECTOR PROPOSAL UPDATE

At the CH2M Annual Stockholder Meeting held on June 5, 2017, stockholders approved a proposal recommended by the Board of Directors to amend the Certificate of Incorporation to allow one retired employee of CH2M to serve as an "employee director" on the Board. On June 7, 2017, the Delaware Certificate of Incorporation was amended accordingly. Just as current employee directors must serve the interests of all CH2M stockholders, retired employee directors must understand and serve the interests of all CH2M stockholders. Retired employee directors will have fiduciary duties to all stockholders, not only to retired employee or former employee stockholders of CH2M.

The Board solicited stockholders' input regarding the proposed criteria its Governance and Corporate Citizenship Committee should consider when evaluating retiree director candidates. The Board also had asked that any suggested changes or additions to the proposed criteria be submitted by June 23. After the criteria have been reviewed and established, the Committee will start the process to consider nominees.

Pre-retiree News

MEET MIKE MCKIBBEN, FEARLESS GAME CHANGER

Those who know Mike McKibben, CH2M program director of the Arctic Research Support and Logistics Services (ARSLS) program under the National Science Foundation (NSF), have witnessed and felt his passion for his job. Many say it's hard not to share Mike's unbridled enthusiasm. It's passion by osmosis.

During his nearly 30-year career, Mike has devoted his time to the mission and goals of the NSF, successfully supporting Arctic research.

He has served as the program manager of the ARSLS program since its beginning in 1999. He has traveled to the Arctic and back, including Alaska, Greenland, Russia, Norway, and Denmark, to visit project sites located in some of the most remote places in the world. During those travels, he's left a permanent trail of his client-centric legacy.

CH2M Polar Services provides critical support services to enable client-funded research projects to access remote field sites, facilities, infrastructure and related services to accomplish the NSF-sponsored research goals. Since 1999, the team has supported more than 1,000 scientists at field sites on land and sea all over the Arctic.



Under Mike's management, CH2M Polar Services has received well above average performance ratings by the NSF in annual performance reviews, and has earned the client's utmost respect. For example, in September 2006, Mike was selected to be one of only seven expert panel members tasked to perform a comprehensive peer review of the South Pole Station Modernization Project, a critical part of the U.S. Antarctic Program.

"Mike has led one of our company's most complex programs throughout the Arctic Region, one of the most arduous places on Earth. He has dedicated a career to science. His team has supported hundreds of scientific researchers in extreme cold weather environments for nearly two decades. CH2M is forever grateful to Mike for his leadership and unwavering commitment to his people, the company and his program's success," said Ken Melchiorre, vice president and director of operation and maintenance delivery in the firm's National Governments client sector.

While Mike's career achievements may be vast, what's truly notable is the client's satisfaction with the firm. At the end of every field station the client asks researchers, served by CH2M Polar Services, to evaluate the firm based on a scale of one to five. CH2M Polar Services has always been rated four and five, which illustrates the high level of service performed under Mike's management.

"Mike has been instrumental in the success of the highly complex Arctic Research Support and Logistics Services contract for many years and working with Mike over the past three years has given me the opportunity to see his leadership skills in action. When I had the opportunity to see the work that our team performs in Alaska and Greenland it was easy to see Mike's influence on every aspect

of the program,” said Jeff Mervin, Senior vice president and director of operation and maintenance services for CH2M’s Private client sector.

In addition to his superior client satisfaction, which will undoubtedly ensure longevity of the ARSLS program, respect for Mike runs deep across CH2M. During his 18 years with the ARSLS program, he’s had an impact on countless CH2M employees and team members, from our subcontractor teaming partners.

“I have had the pleasure to work with and around Mike McKibben for a number of years and saw first-hand the impact of his work at the Toolik Field Station in Northern Alaska. He has built and sustained an incredibly strong program and team supporting the National Science Foundation and he will be greatly missed. Fortunately, his thoughtful planning will have the program running smooth while creating opportunities for others,” said Senior Vice President and Managing Director of OM Services, State and Local Governments client sector, Steve Meininger.

Thanks for your hard work, passion and outstanding achievements Mike, and congratulations on your retirement!

Goodbye, Old Friends

REMEMBERING ROGER LINDQUIST



In early March, retired CH2M employee Roger Lindquist passed away in his home after a short battle with cancer. He is survived by his wife, Whitney, two daughters, and several grandchildren.

With an employee number of 24, Roger Lindquist had been with the firm since our humble beginning. He spent 58 years with CH2M before he retired in 2011, but his legacy continues on. Those in the Corvallis office keep Roger’s legacy alive with the Lindquist Longevity Award, created to honor Roger’s retirement and the more than 50 years he spent with the firm.

Roger got his start in the Corvallis office when CH2M founder Jim Howland brought him on board as an engineer. And from there, his career soared. In 2010, the *Corvallis Gazette-Times* featured Roger and his exceptional career. Excerpts from the 2010 article follow:

Engineering a career of a lifetime (*Corvallis Gazette-Times*)

It doesn’t tell you everything you need to know about Roger Lindquist, but his employee number at CH2M isn’t a bad place to start the story. Lindquist’s employee number? 24. In fact, Lindquist’s career at CH2M dates to 1955. Today, 55 years later, the 77-year-old Lindquist still reports to work, logging eight or so hours a week, careful not to take work away from any of the younger engineers.

Not that they mind. One of those younger engineers wrote this of Lindquist back in 2005: “I cannot think of anyone within the company who has provided such outstanding service in training young engineers for such a long period of time as Roger has done. ... Without Roger, CH2M would have had fewer successful projects, more projects with major problems and a less stellar reputation.”

Lindquist shrugs off the praise. “CH2M has really been a special place to work,” he said. “They gave me a lot of respect.”

In 1955, the draft beckoned, and Lindquist went into the Army. When his hitch ended in 1957, he enrolled in graduate school at the University of Minnesota, earning a master’s degree in civil engineering.

In 1958, with graduate school completed, “I loaded up my car and drove to Corvallis. Jim (Howland, one of the company’s founders) was expecting me to come back. What dumb luck. I think they were probably still desperate.”

Even then, Lindquist recalled, it was clear that Howland and his co-founders had launched something special. “They respected their fellow employees. They communicated really well. He created an atmosphere—a working atmosphere—that I’ve never seen anywhere else.”

Later in 1959, Roger met his future wife, Whitney, on a blind date. “It was a successful first date,” said Whitney Lindquist. “We got married in July 1960. I had no clue what an engineer was when I got married.” One thing about an engineer’s life became clear as the years went on: “They travel a lot.”

In fact, Roger has tackled projects near and far for CH2M. The list is a lengthy, but it includes projects at the wastewater treatment plants in Corvallis, Eugene, and Milwaukie. He’s also worked on projects at the Portland and Seattle airports and dam projects throughout the United States. Abroad, he’s worked on a water-distribution project on the island of Trinidad, and on a wastewater project in Alexandria, Egypt, among many other ports of call.

The job also has given the Lindquists the freedom to sightsee around the world—in particular, they rave about hiking trips in Switzerland. In fact, one of the reasons why Roger Lindquist hasn’t retired yet is that they’ve already been able to cross many of those “to-dos” off their list.

Some projects do await Roger Lindquist when he does retire, in particular writing a family history.

But it doesn’t sound as if he’s got plans to take down his shingle anytime soon. “I don’t have any idea” when he might officially retire, he said. “I’m sure they’ll tell me.” Meanwhile, Lindquist is happy to continue reporting for work: “I come in late and leave early to make up for it. It’s more of a hobby than anything else.”

And the appeal is much the same as it was back in 1955: Each project is like a puzzle, with its own pieces to try to fit together. “Everything is different, and it seems like you can make a challenge out of all of them,” he said. “It just doesn’t get much better than this. It really doesn’t.”

TERRY HOPFENSPIRGER

Terry Hopfenspirger passed away on January 2, 2017. He was an architect in the Boise office for 36 years, until his retirement in 2012. He attended Iowa State University, earning his architectural degree, and eventually moving to Boise in 1977 to work for CH2M. During his lengthy career with the firm, eventually retiring in 2012, Terry served as a senior architect, project consultant, manager, and a mentor to many junior architectural staff.

As a key member of the Boise delivery team, and with the Redding team for several years, he was known as a very practical, no-nonsense colleague with a sharp eye for detail, and a sharp wit. Says Jeff Hodson, “He was an excellent person to have ‘in the trenches’ on a job, because you always knew that you could trust Terry to get the job done, and because he was not afraid to tell you when you were headed down the wrong path!”

Terry loved nature, camping, and exploring the mountains, and spending time with his family, including several grandchildren, teaching them about Native American culture and helping them to look for arrowheads. Terry is survived by his wife Chris, two daughters, and several grandchildren and nieces and nephews.

JOHN SCHNIEDERS

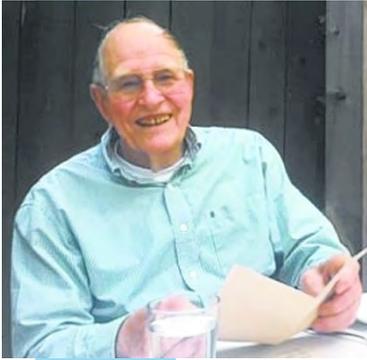


Born the son of Clarence and Marina Schnieders of Taos Missouri, John grew up working in the family store and attending church and school at St. Francis Xavier. He married the love of his life, Patricia, and began a family while pursuing a degree in civil engineering from the University of Missouri.

He worked and managed many civil engineering projects across the country and overseas during his career with CH2M, which began in 1999, and served as a project manager and client service manager for transportation projects. He led many business development and relationship-building activities with some of the firm’s key transportation clients, including the Missouri Department of Transportation.

John enjoyed traveling, baseball, fishing, card playing, and hiking. Most important to him were faith, family, and friends. He passed away on February 10, 2017, leaving behind his wife, four children, and several grandchildren.

JOHN “JACK” TWITCHELL



Jack Twitchell died in Redding, California, on February 1, 2017. After his service with the U.S. Navy, he attended the University of California Santa Barbara, where he met his wife Betty. He completed his degree in soil science and began a career with the Bureau of Reclamation, eventually coming to work for Clare A. Hill & Associates, which became part of the CH2M family. He would note that this was the best move he and his family ever made; he worked for CH2M for 35 years and worked on projects in the U.S., Canada, and overseas, managing some of the Corvallis office's largest soil/agriculture and field investigation projects for clients such as Boeing and the Bureau of Land Management.

Jack developed a strong agricultural science department for the firm, supporting irrigation, drainage, land application, and reuse projects. In addition, he led the soils investigations for the Oregon Boardman Tract Master Plan for Boeing, which was the first irrigation feasibility project done jointly with the Corvallis and Seattle offices.

He was known for his character, integrity, and positive outlook, and was well respected by his colleagues, clients, and agencies. Jack is survived by his wife Betty, three sons, and several grandchildren and step-grandchildren.

LORING HANSON



Loring Hanson died his home in Sparks, Nevada, at the age of 93 with the love of his life of 68 years, Betty Ann, and family by his side.

Loring graduated from UC Berkeley in 1945 with a bachelor's degree in mechanical engineering. He then served our country during the Korean War with the U.S. Navy on the USS Saufley. Loring earned the rank of Lieutenant. He traveled abroad to China and the Atlantic. He truly enjoyed traveling and continued traveling throughout his life.

Loring was a very successful engineer with CH2M, starting in 1966 in the Redding office. He managed many notable projects, working on wastewater projects from California to Alaska to Egypt. He and Betty lived in Alexandria, Egypt, for over a year while he worked on a project there. Loring truly made the world a healthier and better place to live.

During the 36 years Loring and Betty lived in Redding, their lives were filled with activities with their four daughters, including boating and skiing. He retired from CH2M in 1984, to continue his world travels with Betty. In 2002 they moved to Sparks, Nevada, where they were active with numerous social events. Loring was also very interested in genealogical research; he traced his family name back to 1251 in England.

Loring was a California Registered Professional Engineer in both civil and mechanical engineering; and a lifetime member of American Water Works Association, American Society of Civil Engineers, UC Alumni Association, Phi Delta Theta Fraternity, Toastmasters, National Ski Patrol, and Redding and Reno Elks Clubs.

BILL SHRADER

Bill Shrader, age 81, died Wednesday, May 3, 2017 at his home in Alsea, Oregon. Bill graduated from Oregon State University with and joined CH2M in 1966 as employee #157. He served as an electrical designer and manager for many of the firm's largest and legacy water and wastewater treatment projects, like the Willow Lake Wastewater Treatment Plant in Salem, Oregon; and the Jones Island Wastewater Treatment Plant in Milwaukee, Wisconsin. He was widely known and respected as a talented guy, amazing cartoonist, and one of the best electrical engineers around CVO with a great sense of humor. His talents are still seen every day on the cover of CH2M's *Little Yellow Book*; the cover caricature was drawn by Bill.

Says Rod Berklund, "Bill was one of the sharpest technical engineers that I have ever known. He was my go-to person on any electrical technical issue that came up. His work habits were not ones that you would want to model for young engineers. You would see him appear to be just looking out the window or goofing off by drawing cartoons for a period of time, and then all of a sudden the design

engine would turn on and he could accomplish in a couple of hours what would take me a normal 8-hour day to complete.

“After Bill retired he would still do electrical stuff on the side for friends, or I would call him for technical assistance at times. Once when he was helping a friend with an electrical problem in a garage when he called me to help him out. It appeared that he had a ground in the wiring system that he couldn’t find. Bill explained to me all that he had done, and went into some technical discussions that were beyond my recognition of what he was talking about. The only thing that I could come up with is that he must still have his ground tester plugged into the circuit somewhere. When I told this to Bill he just went silent and then a word came out that I will not print here!”

JAMES CARR

James Carr died peacefully in his home in Corvallis on May 5, 2017, at the age of 77. James (known as Jamie by his family) graduated from Oregon State University in 1965 with degrees in physics and mathematics. He hoped to continue on at OSU with a degree in computer science, but the program was still in development at the time. An early adopter of the computer, he had a keen intellect, coupled with the ability to explain how man-made objects and nature function together in a way that people could grasp.

He took this ability to CH2M in Corvallis, starting as an instrumentation and controls (I&C) engineer in 1973. During his career, Jamie worked with John Sewell, Bill Peterschmidt, and others in forming the I&C discipline. This was the era of the introduction of process and instrumentation drawings in the firm’s design process. Jamie was instrumental in writing the first master specifications for the new discipline. He continued being the master editor and developer for the I&C discipline specifications and was the I&C discipline manager for many years.

He continued to work in this field for more than 35 years. He was very important to the I&C discipline as the expert on computer systems used to control and monitor processes. Also, he was a mentor and friend for many young engineers. Faith Junghans said at his memorial service that it was like calling God when she had problems as a new engineer. He was also well known for organizing crowdad hunts in his department!

Jamie enjoyed gardening and woodworking, especially building well-crafted tables and benches. He is survived by his wife of 54 years, Mary Martha, four daughters and one son, and several grandchildren. Jamie was afflicted by Alzheimer’s in his final years, but while his memory faded, his calm, kind nature remained.

We recently lost these colleagues as well.

Alex Delgado	March
Cassio Harris	March
Anne Newman	March
Tiwalade Olubode	June
Michael Tod	June

IMPORTANT NOTE: The only information CH2M can provide for deceased colleagues is for those who had benefits, a pension, or company stock at the time of their death. If you hear about the death of any retiree or alumni colleagues and you think others would be interested, please forward the name, obituary or the family’s contact information to Gordon.Koblitz@ch2m.com or Alumni.Relations@ch2m.com. Thanks!



Tidbits

We've added this new section to encourage a variety of communication from ALL our readers. Let's hear about a nice get-together with dear friends and colleagues, special birthdays, anniversaries and other celebrations, a travel highlight or unusual event. We hope to hear from you throughout the year! Remember, photos are always a plus!



Bob and Meredith Chapman, and Elisa Speranza (right) reconnecting at a recent breakfast together.



Dick and Susan Bedard and Carol and Steve Aasheim at brunch in Hilton Head.



Jim Goetz (right) and his amazing 50-pound catch (after a 45-minute battle) on a fishing trip to Sitka, Alaska.



Retiree Vince Rybel's latest advice for retirees.

GOLDEN MOMENTS



Senior winemaker Don Marske got a Double Gold (all four judges agreed it was Gold) from the Orange County Wine Society competition at the Orange County Fair, for his 2016 Chardonnay. The grapes came from the L7L Vineyard in Los Alamos, California. Don started this fun wine-making hobby in 2005. (left)

Gordon Koblitz (left) and partner, Hank, won gold medals for Pickleball at the Oregon Senior Games in Bend for the 3.5 level, 70-79 age bracket, on June 16. (below)



FEEDBACK

Bob Card (Cardb_energy@msn.com) writes:

Gordon, great newsletter and thanks for all the work that went into this! I wanted to let you know that I have accepted an appointment to the board of AMEC Foster Wheeler. I am not planning on letting this get in the way of being a CH2M alumni and I note that the companies are not everyday, head-to-head competitors, as AMEC is much more focused on oil and gas and mining.

However, I still have a great admiration for CH2M and I will continue to be an enthusiastic alumni!

Don Russell (russelldr@comcast.net) writes:

It is fun to read about the success of the people and company. I joined in 1963 as the sixth employee in the Seattle office. Your efforts are appreciated!

Jack and Sondra Smith (JSMITH4@msn.com) write:

What a great newsletter, thanks for sending! I will take this to Jack tomorrow on his Pad. Wonderful newsletter, he'll enjoy it. Best wishes, Sondra and Jack Smith

Dibyendu Das (Dibyendu.Das@ch2m.com) writes:

Thanks for the Newsletter.....I feel really proud that I was associated with C130J Program at Panagarh, India, where "Miracles happened in Panagarh." I wish to receive all the publication of this newsletter in the future through e-mail. Regards, Dibyendu

John Gaston (jmgaston1142@gmail.com) writes:

This is a very impressive publication!!

ENGINEER TALK...

I called an old-school friend and asked him what he was doing.

He replied that he is working on "aqua-thermal treatment of ceramics, aluminum and steel under a constrained environment."

I was impressed. On further inquiring, I learned that he was washing dishes—under his wife's supervision.



Missing in Action

The Alumni History committee (<http://www.history.ch2m.com/default.asp>) is asking all readers for help in connecting with some folks they've been looking for. Our first request is for Kevin Clancy (a Water Business Group long-timer). Please respond to: donmarske@gmail.com if you have any info. Thank you!!

CH2M News

AWARDS AND RECOGNITION

Did you hear? We designed ENR's Project of the Year!



As heard at the latest CEO Roundtable this past quarter, we are truly the Best of the Best. Just ask *Engineering News-Record* (ENR), the leading trade publication of the engineering and construction industry.

ENR recently named the CH2M-designed DC Water Blue Plains Tunnel as the 2016 Overall National Best of the Best Project. The project also received the Best Water/Wastewater Project award for 2016.

The Best of the Best Project

Awards recognize the pinnacle of design and construction achievement among projects completed in the U.S. ENR selected the Blue Plains Tunnel from over 700 projects nominated through regional competitions in 2016. The tunnel also received the 2016 Best Project Overall award for the Mid-Atlantic Region by ENR.

We served as the lead designer for the 24,000-foot long, 23-foot internal diameter combined sewer overflow tunnel project, which completed in 2016. The Blue Plains Tunnel is part of DC Water's \$2.6-billion DC Clean Rivers Project to keep overflow from entering the Anacostia and Potomac rivers, and Rock Creek in Washington, DC. The Clean Rivers Project will reduce stormwater overflows and combined sewer overflows throughout the system by 96 percent annually and by 98 percent for the Anacostia River alone.

"Receiving ENR's Overall Best of the Best honor is a tribute to tremendous work of DC Water, the contractor Traylor-Skanska-Jay Dee and the CH2M design team," said CH2M Global Tunnels and Earth Engineering Practice Director, Mark Johnson. "The innovative design and construction techniques used on this project and the critical role it's playing to help the city clean up its waterways are outstanding examples of what truly makes a project one of the best. We're honored to add this distinction to our award-winning Blue Plains Tunnel."

The tunnel features five constructed shafts, including a dewatering and screening shaft designed as a combined figure eight diaphragm wall structure that reaches between 180 and 198 feet below ground. Their unique design allowed the construction team to assemble the tunnel boring machine through both shafts and eliminated the need to construct a mined tunnel to connect the two shafts.

The Blue Plains Tunnel, deemed best overall in terms of teamwork, safety, overcoming challenges, innovation and quality, was recognized at ENR's Best of the Best Projects Awards Banquet on April 13, 2017 in New York City.

Competition Green with Envy—CH2M wins Five Environmental and Climate Change Awards

The *Environmental Business Journal* (EBJ) and the *Climate Change Business Journal* (CCBJ), awarded CH2M five prestigious business achievement awards.

“Recognizing our projects and best practices for outstanding achievement in environmental, climate adaptation, resilience and sustainable water infrastructure is an honor and testament to the technical expertise and sustainability vision of our global staff,” stated CH2M Global Environmental Market Director, John Mogge.



EBJ and CCBJ recognized CH2M for outstanding business achievements, including:

- Creating a new **Valuing Nature Practice**, a global initiative where a broad range of environmental, engineering, and architectural consulting and design services are viewed through a natural resources lens to deliver positive financial benefits, greater environmental stewardship, and reduced operational risk.
- Contributing to the highly successful **Thames Lee Water Tunnel**, which features many industry-leading design and construction innovations, is Thames Water’s largest ever infrastructure project, and represents the biggest upgrade to London’s sewerage system since Victorian times.
- Designing the state-of-the-art **AlexRenew Nutrient Management Facility**, which features a dual-purpose nature of improving the health of local waterways while engaging the community with beneficial greenspace, earning the first Envision Platinum certification from the Institute for Sustainable Infrastructure.
- Working with Newmont Mining to **advance best practices in climate adaptation and resilience** across a worldwide portfolio of mining assets.
- Developing a **flood protection project in Tacoma, Washington**, including a floodwall with automatic gates and an emergency pump station.

The awards were presented at the 15th Annual Environmental Industry Summit on March 22–24, in San Diego, California.

We’re on Cloud 9!

We’re on Cloud 9! Why? Because for the ninth straight year, we’ve been recognized by the Ethisphere Institute as a 2017 World’s Most Ethical Company®. CH2M is one of only two companies in the Engineering and Design Services industry that has been named nine consecutive times to this list of global companies recognized for their commitment to ethics.

Ethisphere’s World’s Most Ethical Companies program honors companies that excel in three areas:

1. Promoting ethical business standards and practices internally
2. Enabling managers and employees to make good choices
3. Shaping future standards today by pioneering innovative best practices

“This recognition reflects our commitment to driving performance through leading business practices, governance systems, disciplines and the daily dedication of our employees to doing the right thing,” says Chairman and CEO Jacque Hinman. “Around the world, CH2Mers seek to deliver smart, socially and sustainably inclusive solutions that improve lives and the condition of our planet, allowing us to serve our clients and our communities with distinction.”

“We are committed to putting ethics at the forefront of everything we do,” says Chief Ethics and Compliance Officer Bill Brierly. “We have a strong history of operating ethically, and this recognition is a testament to our enduring commitment to doing business the right way.”

The award emphasizes CH2M’s commitment not only to leading ethical business practices that benefit clients and employees, but also for bringing innovative approaches and sustainable solutions and providing greater social, environmental and economic benefits to our planet and communities worldwide.

Eight Projects in Canada make the “Top 100 Biggest Infrastructure Projects” List

CH2M received recognition from *ReNew Canada* magazine for our involvement in eight of this year’s “Top 100 Biggest Infrastructure Projects.” Released annually, *ReNew Canada’s* “Top 100” report ranks Canada’s biggest infrastructure projects by dollar value.

For projects to make the list, they must be moving forward with a secured financial budget, there must be evidence that the full financial value of the project can/will be secured and, finally, the project must be a public sector infrastructure project. The 2017 report lists over CAD \$161 billion (US\$ 123 billion) in infrastructure investments nationwide.

CH2M’s projects receiving recognition are:

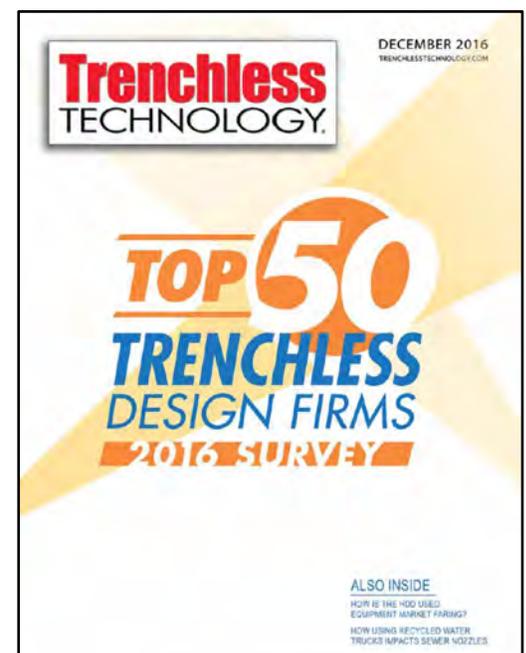
Rank	Project
4	Eglinton Crosstown Light Rail Transit
9	Southwest Calgary Ring Road
41	Finch West Light Rail Transit
43	Highway 407 East Extension – Phase 2
65	Lions Gate Secondary Wastewater Treatment Plant (Partnering with AECOM)
77	Bonnybrook Wastewater Treatment Plant D Expansion
89	Hanlan Water Project
99	South End Water Pollution Control Centre

CH2M Named Top Trenchless Design Firm in 2016

For the second consecutive year, CH2M earned the top spot on *Trenchless Technology’s* Top 50 Trenchless Engineering Design Firms list. The firm has topped the list in six of the last seven years.

Trenchless Technology’s list is developed by comparing firms based on their trenchless billings in the North American market, as well as numbers of trenchless professionals, completed trenchless projects, and a breakdown of what trenchless components made up the projects reported. CH2M reported more than \$164 million in trenchless projects over the last fiscal year.

“CH2M’s client-centric approach allows our internal practice groups with extensive knowledge in trenchless technology to add value to our clients’ specific projects, concerns and desired outcomes,” said Susan Moisio, CH2M conveyance practice manager.



Some of the firm’s projects include the El Paso Water Magnolia Storm Drainage Improvement project, which was designed to help improve drainage and reduce flooding on Interstate 10; the raw water pipelines for the Davis-Woodland Regional Water Supply Design-Build Project, which recently received a National Award of Merit by the Design-Build Institute of America; and the structural rehabilitation of the Taggart Outfall 30 brick sewer in Portland, Oregon.

“Trenchless technologies continue to improve and provide excellent options for clients who are looking to repair or replace aging underground infrastructure or install new buried infrastructure,” said Mark Johnson, CH2M’s tunnel practice manager. “It is an honor to have our work and expertise recognized by *Trenchless Technology* again this year.”

CH2M’s Brand Strong in latest ENR Design Ranking

Category	CH2M Ranking
Manufacturing	No. 1
Sewer & Waste	No. 1
Top U.S. Design Firms	No. 3
Transportation	No. 3
Water (Supply)	No. 3
Hazardous Waste	No. 4
Top 50 in International Markets	No. 4
Industrial Process/Petroleum	No. 10

On May 1, ENR released its Top 500 Design Firms ranking, and no surprise, CH2M’s brand is strong! In fact, we’re ranked No. 3 in the U.S. in design firms. Much of the ENR dialog revolved around infrastructure development, where CH2M plays a leading industry role, as reflected in our 2016 Integrated Summary Annual Report.

“There are arguably trillions of dollars in projects available globally in our markets: water, environmental, transportation, nuclear, energy, industrial and advanced facilities, and no single company in our sector holds a dominant market share,” noted Chairman and CEO Jacque Hinman in CH2M’s Annual Report.

Key takeaways from the ENR’s Top 500 Design Firms issue include:

- Major design firms are ready for the U.S. administration’s funding and tax proposals to take shape and translate into projects.
- The U.S. political, public, financial and capital markets are all supportive of improving the nation’s infrastructure.
- There is a growing trend toward local funding of both physical and social infrastructure, as reflected in the passage of infrastructure spending referenda last November in cities such as Los Angeles, San Francisco, Atlanta and Seattle.
- A pro-business/less regulation sentiment has fueled optimism for streamlining projects, but most private sector companies will continue to do the right thing regarding environmental stewardship and corporate citizenship.
- With the administration promoting more private funding of infrastructure, the move toward alternative project financing and delivery is becoming a hot topic among design firms.
- Lastly, finding the staff to do the work is an increasing difficulty for design firms. As clients increasingly shed non-core personnel in favor of outsourcing design work, firms are under pressure to find the technical and management staff to deliver the work.

CH2M NEWS

It's a Win! U.S. DOE awarded CH2M-led LLC \$1.5B Paducah Deactivation and Remediation Contract



We're proud and excited to announce the U.S. Department of Energy selected the CH2M-led Four Rivers Nuclear Partnership, LLC. for the Paducah Deactivation and Remediation Contract!

The performance-based contract, valued at \$1.5 billion over 10 years, will include management of more than 650 structures, properties, and buildings at the Paducah Gaseous Diffusion Plant (PGDP) in western Kentucky. PGDP processed uranium from 1952–2013 for military reactors, nuclear weapons, and nuclear power plant fuels.

Alongside partners Flour Corporation and BWX Technologies, Inc., CH2M's work on the Paducah Deactivation and Remediation contract will support stabilization, deactivation, and remediation activities, reducing risk and future demolition costs.

National Governments Client Sector President Terry Ruhl commented, "Truly outstanding news; congratulations to everyone on the nuclear team! Our business plan for success has a significant emphasis in winning and delivering these large, complex nuclear remediation programs, and the outlook for the remainder of the year and beyond is extremely positive."

What an enormous accomplishment for everyone involved and for CH2M!



Score! PUB, Singapore's national water agency, appointed CH2M to deliver the Tuas Water Reclamation Plant

PUB, Singapore's national water agency, appointed CH2M to deliver the Tuas Water Reclamation Plant (WRP), a key component of PUB's Deep Tunnel Sewerage System Phase 2 project (DTSS2).

State and Local Governments President Greg McIntyre said, "CH2M is very excited to be able to continue our 20-year partnership with PUB on what will no doubt be an iconic facility that will become a cornerstone in Singapore's sustainable water

supply strategy and serve the Singapore people for many decades. By co-locating the Tuas WRP with the IWMP, the project will continue PUB's history of innovation and industry leadership. We also look forward to leveraging our shared values on health and safety to "raise the bar" throughout the entire delivery of Tuas WRP and into operations."

The WRP will be located in west Singapore, and will have the capacity to treat an average dry weather flow of 650 mega-liters-per-day (MLD) of domestic and 150 MLD of non-domestic used water collected in distinct deep tunnels and conveyed by gravity to the mega treatment facility. The facility will employ advanced treatment processes to minimize specific energy consumption and sludge production and at the same time maximize biogas production for the generation of electricity. Domestic and non-domestic used water will be segregated and treated in dedicated treatment trains. Bio-solids treatment will include anaerobic digestion and thermal hydrolysis. In addition, the facility will convert used water into NEWater and industrial water for re-use predominantly by industry—a key element of PUB’s holistic approach to managing the water cycle. It is expected to be complete in 2025.



CH2M has been working in Singapore for 20-years and has extensive experience in delivering successful water projects for PUB. For Tuas WRP, CH2M and PUB will work closely with Program Manager Black & Veatch + AECOM joint venture, who will retain oversight of the overall DTSS2 program.

City of Atlanta taps CH2M for Construction Management Support Services at World’s Busiest Airport



Impressed by more than 100 combined years of experience working in the Atlanta area, including the Hartsfield-Jackson Atlanta International Airport, the City of Atlanta has selected CH2M and its joint venture partners to deliver construction management support services for the \$6-billion ATLNext Program.

“Our team comprises staff who bring not only national and international best practices from other large hub airports’ capital programs, but the knowledge and experience of having worked at the Atlanta Airport, which is what I believe gave us an edge over the competition,” said Timothy Brown, CH2M’s construction management director at the Atlanta International Airport.

As construction management consultants, the CH2M, Rohadfox, and Parsons team will manage and administer construction contracts, assess construction progress and quality, and act as an integral part of the airport’s management team.

ATLNext consists of a series of airside, airfield, terminal, cargo, parking, and support facility projects during the next 20 years designed to boost capacity, renew and replace existing facilities and enhance the airport’s aesthetic appeal. They are designed to help secure Hartsfield-Jackson’s position as the world’s most traveled and efficient airport and further bolster the airport’s goal of providing the best customer service while meeting the needs of busy passengers.

ATLNext sets the stage for maintaining the airport’s role as an economic driver for the region and serving as a gateway to the world.

Milestone! 1,000 vessels use the newly-minted Panama Canal since its inauguration

The Panama Canal has marked the 1,000th Neopanamax vessel to use the waterway since the inauguration of the expanded canal less than 9 months ago. On Sunday, March 19, Mediterranean Shipping Company's containership MSC Anzu made the milestone transit heading northbound from the Pacific to the Atlantic Ocean as part of a new service linking Europe, the United States, and South America.



The Neopanamax containership MSC Anzu transits the Pacific-facing Cocoli Locks during the 1000th transit, March 19, 2017. Photo credit: Panama Canal Authority.



The MV Cosco Shipping Panama makes the inaugural transit through the expanded Panama Canal, June 26, 2016. Photo: Panama Canal Authority.

The 1,000th transit is a significant milestone for the new set of locks, which has been experiencing a steady flow of traffic since its inauguration in June 2016. As of March 2017, the average number of Neopanamax vessels transiting the new lane per day is nearly 6, says the Panama Canal Authority.

The canal now welcomes larger ships across all maritime sectors, including containerships, liquid petroleum gas and liquefied natural gas vessels—a newcomer to the waterway. Other sectors like dry bulk carriers, vehicle carriers, and crude product tankers have also made use of the new locks.

CH2M has been supporting the Panama Canal Authority since 2007 with the delivery and commissioning of the canal expansion. Our team has been providing program management advisory services and claims support for one of the largest and most ambitious construction projects in the world, including:

- Design and construction of the third set of Atlantic and Pacific locks.
- The Pacific access channel dry excavation and dam construction.
- Multiple dredging contracts to widen and deepen the shipping channel.

The doubling of the canal's tonnage capacity and the added transit capacity of much longer, wider ships through the waterway hold great promise for the people of Panama and all societies benefiting from this gateway to global commerce.

Hometown success! City of Centennial extends Partnership with CH2M for 10 years

In late February, city council members in Centennial, Colorado, voted to extend a master service agreement with CH2M; the agreement includes public works, code compliance, and facilities and parks maintenance. The project is located just miles away from the CH2M headquarters in Englewood, Colorado. The 10-year, \$128-million contract, with a 2-year extension worth an additional \$30 million, was given by the city, which cited outstanding and innovative work from our employees over the past 9 years.



“One concern some members of the city council had for signing a 10-year contract was a worry that, as a contractor, we’d become complacent. But we’ve demonstrated over the past 9 years that we are anything but complacent,” said CH2M Project Manager Craig Faessler. “In the past decade we’ve introduced route optimization programs, received awards for field-mobility programs, and became the first-ever American Public Works Association-accredited public-private partnership agency.”

In Centennial, CH2M works as an extension of the city, providing public works, code compliance and facilities and parks maintenance services to more than 106,000 residents—delivering a broad range of services from traffic engineering, snow removal, and

code enforcement, to maintenance of the city’s award-winning park—while being flexible to the city and citizens’ needs. In addition, the CH2M team established a consolidated 24/7 customer service center that serves as a single point of contact for all resident concerns, not just CH2M services.

“The way our contract is structured, it’s a win-win partnership,” said Regional Director Jon Mantay. “The client, or city, tells us what they want to accomplish and allows us to determine the best path to reach the outcome desires. This approach empowers the CH2M team to seek and implement the best and most effective solution. The team is truly client centric focused and outstanding dividends are the result. We look forward to ‘continuing to amaze’ them over the next 10 years.”

The Unveiling of a New \$417-Million Wastewater Treatment Facility in Our Own Backyard!

On May 24, the Metro Wastewater Reclamation District celebrated the grand opening of its Northern Treatment Plant (NTP). Planned since 1982, the new \$417-million facility is one of the most advanced in the western U.S.

The CH2M team impressed the client by keeping the project on schedule and under budget. Construction of the NTP was completed on schedule and the \$417 million total program cost was nearly \$60 million less than original budget estimates. This includes design and construction of the treatment facilities and a nearly 7-mile pipeline that uses gravity, not pump stations, to transport flow to the plant.

“This is one of the largest progressive design-build municipal water projects ever delivered in the U.S.,” says CH2M Chairman and CEO Jacqueline Hinman. “The innovative delivery process allowed for the greatest level of collaboration with all project stakeholders, while maintaining a keen focus on safety. We applaud the Metro District’s foresight in delivering a technologically advanced treatment facility that will make a great difference in our community, protect our environment and preserve critical water supplies for our growing region.”

Designed to protect the South Platte River and support rapid community growth, the facility is capable of cleaning 24 million gallons per day and will eventually serve up to 750,000 customers across Aurora, Brighton, Commerce City, Thornton, unincorporated Adams County and Denver.

“By investing in critical infrastructure, we are investing in the future of the communities where we live and work,” said Catherine Gerali, District Manager of the Metro District. “Completion of the Northern Treatment Plant ensures safe, reliable and cost-effective water reclamation for the 1.8 million Coloradans who rely on the essential public service we provide.”

The NTP strengthens the Metro District’s more than 50-year track record of environmental stewardship. The new facility features the latest proven water reclamation technologies to protect the South Platte River, as well as onsite resource recovery for energy generation and agricultural applications.



Chairman and CEO Jacque Hinman celebrates the on-time and under-budget completion of the NTP.



CH2M Selected as Program Manager for India's First Smart Capital City



An artist's rendering of Amaravati.

CH2M and the Indian State of Andhra Pradesh Capital Region Development Authority have entered into a contract to develop Amaravati as India's first smart capital city.

CH2M was selected as program manager to implement major infrastructure developments integrating digital technologies and intelligent design to transform Amaravati into a technologically advanced capital city.

"India presents tremendous opportunities for U.S. firms, like CH2M, to assist with the country's growth vision to become an economic powerhouse in the 21st century. As a leader in smart city development, we are pleased to facilitate the opportunity for CH2M to work on India's first smart capital city, Amaravati," said Arun Kumar, Director General of the U.S. Commercial Service and Assistant Secretary for Global Markets, U.S. Department of Commerce.

As the new capital of Andhra Pradesh, Amaravati, located on the banks of the Krishna River, will become the first among India's planned smart capital cities to be mobilized and developed. With a focus on sustainability, information and communication technology, innovation, strategic growth, quality, and safety, the new capital city will provide economic and sustainable opportunities for residents. Setting a new international benchmark for global economic development, the city will offer high-tech and knowledge-based jobs, making it more globally competitive.

As program and project manager for Phase 1 of Capital City Amaravati, CH2M is responsible for program management for developing the city infrastructure spreading over 130 square miles, including a world-class government complex.

Helping shift Los Angeles Metro Highway Program into High Gear



Tackling planning and design for transportation projects in the most populated county in the U.S. might seem like a monumental challenge, but thanks to our dedicated team, advancing mobility is something we've been getting right in Southern California for over a decade—and the region's key transportation agencies are taking notice.

Most recently, the Los Angeles County Metropolitan Transportation Authority tapped us to provide highway program project delivery support services that will enhance transportation infrastructure in Los Angeles, the second largest U.S. city.

Our transportation team is already contributing to several Metro projects in the region, including the I-5 Capacity Enhancements, State Route 710 North Study, and the similar project management and quality assurance/control support services contract.

"It is an honor to continue to work alongside Metro on many of its key transportation improvement initiatives in Los Angeles County," said Bryan Nicol, CH2M highways and bridges director. "With continued population growth expected in Los Angeles in the coming years, these improvements will not only keep Angelenos on the move, but also ensure long-term economic vitality and a higher quality of life."

With the new Highway Program Project Delivery Support Services contract, we'll be helping Metro address some of the region's most pressing transportation challenges, through a range of on-call task orders including:

- Producing design plans, specifications, estimates, studies, reports and other technical documents.
- Independently reviewing and overseeing environmental design, including traffic, structures, electrical and drainage contract plans.
- Developing and managing databases for schedule, cost and quality control, risk assessments and management studies and plans.

Our team will also bring additional expertise in highway funding, emerging technologies, alternative project delivery and sustainable design to advance Metro's highway capital project planning and development process. Metro's recently approved Los Angeles County Traffic Improvement Plan, "Measure M," will guide many of the projects included under the contract.

Continuing an over 30-year partnership with Metro and its predecessor agencies, our roadway and project delivery services on these projects will support overall "Measure M" goals, including easing traffic congestion, improving system connectivity and resiliency and supporting economic growth in Southern California.

CH2M Demonstrates Award-Winning Expertise in Wetland Restoration

Coastal habitats can reduce coastal flooding and erosion risks by trapping sediment and dissipating wave and tidal energy. They also serve as carbon storage, fish nurseries, grazing areas and provide recreational opportunities, which means their restoration can have many benefits. With the extensive amount of wetland restoration work that we have performed for the UK Environment Agency (EA), one of our most important clients in the UK, we have experts on board with a unique wealth of knowledge, like Nigel Pontee, practice leader in coastal planning and engineering in the UK Swindon office.



*Wetlands in the UK;
photo courtesy of UK Environment Agency.*

Over the last two decades, Nigel has appraised over 150 sites and led the design of some of the largest schemes in the UK, helping to deliver over 4,200 acres of intertidal habitat and making us the largest supplier of these services to the EA. He has included his observations in numerous papers, book chapters and international best practice guides on coastal management and wetland restoration.

Nigel recently presented his award-winning paper on the impact of managed realignment design on estuarine water levels at the Institution of Civil Engineers (ICE) in London as part of the Thomas Telford Prestige Paper series.

“I was proud to present at the ICE and be able to demonstrate our class-leading expertise in the design of restoration schemes. Publishing and presenting scientific papers also puts our knowledge into the wider scientific and engineering community, allowing others to create further advances in understanding,” said Nigel.

As a visiting professor in the Faculty of Earth and Ocean Sciences at the University of Southampton, Nigel also shares his expertise with the next generation of engineers who will continue our work in protecting and restoring global ecosystems. He recently gave a lecture to students on the past, present, and future challenges in the delivery of wetland restoration in the UK.

“Such lectures are an opportunity for students to learn from real examples and ask practical questions about the challenges we face. The relationship with Southampton University also benefits us. Over the last 10 years we have recruited several staff from and we are currently sponsoring research on new tools for the design of tidal wetlands in the future,” added Nigel.

CH2M Signs Framework Agreement with Shell to Provide Global Engineering Services

CH2M recently signed a framework agreement with Shell to provide engineering, procurement, and construction and project management services across upstream, integrated gas, and downstream projects globally.



In keeping with Shell’s commitment to safety, quality, collaboration, simplicity, and transparency, we will deploy our world-class safety management system, improve capital project execution, and drive technology and project management innovation.

Our efforts will focus on delivering projects for Shell’s operating sites and business units. This collaboration will allow Shell’s business units to seamlessly and competitively access CH2M’s global technical and management expertise, and enhance CH2M’s ability to invest in and optimize its delivery to Shell.

“We share Shell’s commitment to performance measurement and incentives, and to innovation that will migrate the capital project life-cycle to a fully data-driven environment. These ways of working are inherent in our values, and our collective ideas and commitment can improve capital efficiency across Shell’s asset base,” said Sheila Galegher, CH2M vice president and our global account manager for Shell. “We are ready to be the change agent Shell needs to deliver on their goals.”

Success in Krakow – Project Managers impressed with Poland Global Design Production Center



In 2016, the firm set its sights high to better leverage the pool of talent and our geographies across the company. The result? We established Regional Design Centers to serve the global reach of CH2M and introduced a Global Design Production Center (GDPC) in Poland.

In 2016, the Poland GDPC swiftly became CH2M's largest and most used design center. Since the start, they have shared many noteworthy accolades and wins:

- Invested in developing capabilities and an efficient delivery model, which helped achieve the firm's strategic goals. This led to some major project wins and to consolidating our global competitive advantage.
- Successfully delivered 400,000 client hours of engineering and design work, working on more than 400 projects around the world serving all of our business lines.
- The number of offices served from Poland has grown rapidly in the last year, with offices such as Houston, Sydney, and Calgary executing projects with the GDPC for the first time.

The overall success of the GDPC is the result of an excellent team and the proper organization of work in partnership with client sectors. In addition, international cooperation is enhanced by project teams embracing the Krakow engineers and designers as part of their teams. These factors have led to improved competitiveness in our markets, positive feedback and, ultimately, follow-on work with delighted clients using the GDPC.

"The client was impressed with the work the Krakow team performed, and this has led to their willingness and desire to see us use the GDPC on all projects for them going forward," says Private Sector Manager of Projects Paul Fullam. "The GDPC team was on time for all deliverables. Their output, in my opinion, surpassed all expectations from the project leadership at the project outset."

In terms of growth, the GDPC staff population nearly tripled in size in 2016 and now constitutes a team of over 450 architects, engineers, and designers, including the integration of the established team from Warsaw. A growing number of staff, specific project demands, and workplace and client security standards required moving to a larger office. In the fall of 2016, the Krakow team moved from five temporary offices to the new CH2M Center in Krakow. The office holds more than 900 colleagues from both GDPC and Global Shared Services Center, and has the capacity to add up to 1,300 team members.

To expand the CH2M global design centers network, in 2017 the GDPC integrated the India design team into the GDC organization as a second location for GDPC services. This will bring even greater capacity and capability to the firm as demand for global design services continues to grow. Poland and India will collaboratively work and coordinate resources for our client sectors.

CH2M selected for Spaghetti Bowl Interchange Project in Nevada



Nevada Department of Transportation (NDOT) has selected CH2M to provide environmental and preliminary design services for Reno's "Spaghetti Bowl" interchange improvement project.

Reconstruction of the nearly 50-year-old Reno I-80/I-580/US 395 Spaghetti Bowl interchange, which serves over 300,000 vehicles daily, is a high-priority for the state. Due to the rapid growth in the region and the outdated design, the Spaghetti Bowl and adjacent interchanges often become congested, spiking an increase in accidents.

The project will include improvements on 10 service interchanges, a system-to-system

interchange, braided/collector distributor systems, and multiple local roads. When complete, the improvements will accomplish long-term goals to meet 2040 travel demands, decrease congestion, and improve safety. To support the accelerated effort to update the interchange, CH2M's services will help NDOT reach its goals of:

- Accelerating delivery of the National Environmental Policy Act (NEPA) document for the project in less than 3.5 years
- Minimizing right-of-way displacements and acquisitions, and utility impacts
- Identifying project-specific risks
- Developing a comprehensive stakeholder and public outreach plan
- Improving safety, operations, and mobility in Reno and surrounding areas
- Enhancing the aesthetics through the core of the community

"The Reno Spaghetti Bowl reconstruction is regionally significant, politically sensitive, and technically complex," noted Susan Martinovich, CH2M's North American highways and bridges practice leader. "We understand how to get these types of improvements built. In this case, we'll not only improve the commute for Nevada drivers and visitors, but also make the environmental and preliminary design process quicker and easier for NDOT."

Electrifying Delivery and Safety Performance on Southern California Transmission Line

Our team recently completed a major utility's multi-billion-dollar, game-changing transmission line project that is now energized and delivering up to 4,300 megawatts of renewable energy from the high desert of California, through a national forest, to major population centers in southern California. Perhaps best of all though, we delivered a full suite of environmental compliance services throughout licensing, preconstruction and construction stages for this longstanding key client, and achieved Target Zero performance over 10 years.



The massive project included demolition of more than 800 transmission towers, construction of new transmission lines in over 173 miles of right-of-way, and undergrounding of 3 miles of transmission line. The project resulted in the construction of new and upgraded substations and ancillary facilities, including over 1,000 miles of new and upgraded roads, completed under an accelerated schedule.

The multidisciplinary project team, comprising more than 250 staff from around the world, completed more than 175,000 hours of support with no recordables over a 7-year period. This is remarkable, considering the challenging site conditions, involving federal, public, and private lands; steep terrain; freezing temperatures, extreme heat, and flash floods; limited vehicle access; threatened and endangered species; significant cultural and recreation resources; and residential properties adjacent to the right-of-way.

CH2M helps “Launch” Longest Bridge North of Arctic Circle



Roads and Bridges Magazine recently selected the 1,421-foot-long Nigliq Channel Bridge as one of its Top Bridges of 2016. CH2M provided construction and logistics support on the Nigliq Channel Bridge, which earned the second spot in the magazine’s list of top 10 bridges in the country.

The bridge, completed in 2015, provides access to the Alpine satellite CD5 drill site on the North Slope of Alaska, and comprises eight spans up to 200 feet long and provides access for heavy oil field service vehicles weighing up to 175 tons. CH2M served as the major construction subcontractor for pier pilings.

Our experience working in the challenging North Slope conditions provided the project team with key best practices to ensure smooth

operations during construction, including keeping the large array of cranes, trucks and other bridge-building equipment running effectively. We supported the over 400 workers on the project, keeping all equipment fueled and running 24 hours a day, 7 days a week.

Throughout construction, the team faced numerous challenges, including the bridge’s remote location and extreme climate, with temperatures as low as -45°F and wind chills reaching -65°F, as well as blizzards, limited infrastructure, extended arctic darkness, and limited access due to lack of permanent roads and seasonal ice road restrictions. In fact, given the far north location, the team needed to time the construction season perfectly with the coldest part of the year, when ice roads could be built and maintained (typically from mid-January to late April).

Engineered to support six pipelines along its downstream side, protecting them against ice floes up to 6 feet thick and 200 feet wide, the Nigliq Channel Bridge is the first and longest “launched” bridge constructed in North America north of the Arctic Circle. “Launching” the bridge, or prefabricating the structure offsite and then transporting it to its final location, minimized the project’s environmental footprint and maximized safety by reducing work at height by 50,000 labor hours as opposed to standard construction methods.

Quick Return to Operations and Saving Nemo during Fuel Supply Crisis

Immediately responding to an emerging fuel supply crisis of national significance, a small global team of CH2M marine infrastructure and pipeline engineering experts designed and supervised the repair of a submarine crude oil import pipeline for an international refinery client—preventing environmental impacts and allowing the refinery to resume full production without delay.



Completing the repair of the 24-inch leaking pipeline in an extraordinarily expedited schedule is a testament to the technical talent of our terminals, pipelines, and infrastructure experts, as well as to effectiveness of our new streamlined operating model. In addition to being more client-centric, the new model also empowered us to respond, propose, and get the emergency work completed—perhaps in less time than making a fully authorized go decision for a new client in a previously non-approved country under our old model.

With a highly satisfied confidential refinery client, follow-on work in place and future opportunities identified, our sales and practice teams leveraged adjacent work at the nearby local port, and conducted refinery client outreach to further drive the success of the new refinery client relationship. The pipeline repair has since been tested, is certified, and oil is safely flowing again.

New win in Boston! MBTA, CH2M Set to Expand Transit Options

Supporting a commitment to affordably expand transit service in the Boston metropolitan area, the Massachusetts Bay Transportation Authority (MBTA) selected CH2M to provide program and construction management services on a 4.5-mile extension of its Green Line transit system.

Following this extension, the oldest piece of transit infrastructure in the U.S. will once again be at its most transformative—Boston and Cambridge will have transit connecting Somerville and Medford, and College Station will connect Tufts University directly to Boston. In addition, New England’s most densely populated community, Somerville, will have access to transit.

The project will include construction of a new vehicle maintenance facility, six new stations and multi-span viaducts, and will also include reconstruction of several bridges and relocation of one train station.

Our team will provide design-and-build proposal evaluation, estimating and scheduling, information management, stakeholder engagement and construction field support.

“We care about Massachusetts Bay Transportation Authority’s successful extension of the Green Line, not only professionally, but also because it directly affects our daily lives,” said CH2M U.S. Transit and Rail Practice Director, Tom Donahue. “Like our fellow residents of the Greater Boston community, our staff and families will benefit from an expanded transit network that decreases commute times and sustains this infrastructure for the future.”



Building 324 at the Hanford site in Washington.

Cool Video! Unique and Complex Disposition Work Underway at Hanford

Just a stone’s throw away from the Columbia River sits a hazardous remnant of the Cold War. Building 324 served as a development facility where employees conducted studies on highly radioactive materials. Today, workers are preparing to remove highly contaminated soil from under Building 324 at the Hanford Site.

In late 2010, workers on the River Corridor Closure Project were on a path for demolition of the building when they discovered a spill beneath the B-Cell, resulting in discontinuation of the demolition. It was discovered that the soil was so highly contaminated that exposure for just 2 short minutes would deliver a lethal dose of radiation. This project came to CH2M when the remainder of the River Corridor Closure contract work migrated to the Plateau Remediation Contract, for which CH2M is responsible.

The 324 Building, used as a research and development facility for highly radioactive material during the Cold War, is located very close to the Columbia River at the Hanford site. Over the past decade, over 170 buildings have been demolished in the 300 Area with just a few remaining, including Building 324.

Check out this great [video](#) about the complex work going on at the project site!

CH2M Helps Kinder Morgan Reach Milestone for Critical 617-Mile Pipeline



With Kinder Morgan's recent Final Investment Decision to proceed with the \$5.7-billion project, the 617-mile Trans Mountain Expansion Project (TMEP) is one step closer to reality.

The pipeline will stretch from Edmonton, Alberta, to Vancouver, British Columbia, and when complete, will serve as the only crude oil pipeline to the West Coast of Canada, a critical piece of infrastructure for Canada's oil and gas sector.

CH2M and our partners have been working on TMEP for 4 years. We have provided comprehensive support services, including environmental, health, safety, and security; site planning and permitting; environmental assessment and remediation; strategic regulatory advice; engineering terminal design; traffic and emergency management; and public consultation engagement to safely deliver the project—all with zero recordables.

More than 250 CH2M scientists, engineers, planners, and technical specialists from five North American offices contributed over 800,000 hours on this extremely challenging project, completed under tight deadlines and changing client and regulatory requirements, in a high profile political environment.

The TMEP will be the first pipeline project to offset 100 percent of its construction air emissions. Our current work on the project positions CH2M well for the planned 24-month construction period.

Commenting on the project, Greg Toth, TMEP senior director stated, "I would like to thank CH2M for the enormous contribution in getting us to where we are. Your services have been integral to our ability to navigate the complex regulatory channels required to support a positive decision."

"Congratulations to the great CH2M team for bringing the TMEP to this important milestone! This is a great example of the challenging, cool and impactful projects we work on around the world that help our clients achieve their business objectives, further our CH2M business, and contribute to all of our personal career development," echoed Jason Smith, CH2M project director.

Operations, Program Management Form Ideal Combination for Florida Community

CH2M and the City of North Miami Beach, Florida, established a partnership that will bring world-class operations, maintenance, and program management services to this community in the Miami metropolitan area.

Under a 10-year contract with a 5-year option, CH2M will oversee the day-to-day operations and maintenance of a water treatment facility, water distribution, and wastewater collection systems serving 180,000 people, while also managing engineering, customer service, meter reading, billing and collections. In addition, CH2M will manage a \$210-million capital improvement program encompassing planning and asset management to expand treatment capacity and improve system reliability.

The North Miami Beach-CH2M partnership is a first-of-its-kind combined operations and program management contract—a new model in the industry. Operations, technical service, and consulting experts collaborated to develop a single-source approach to achieving North Miami Beach's objectives.