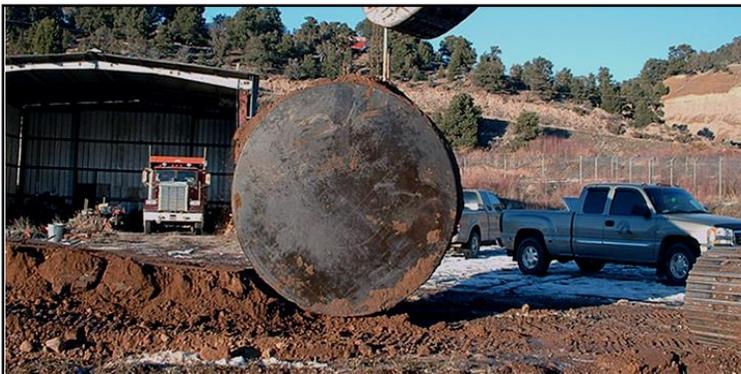
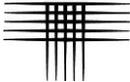


## Comprehensive Environmental Services

CTL | Thompson Inc. (CTL) offers full-service consulting in geotechnical, environmental, structural and materials engineering. We employ over 245 professionals located in eight offices across the Front Range. Our environmental staff includes engineers, industrial hygienists, and environmental scientists with relevant project experience, certifications, and availability to meet technical needs and Client requirements.



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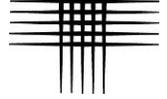
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# Firm Profile



*“CTL | Thompson has highly professional employees and a business philosophy that supports efficiency and cost effectiveness.”*

*“CTL | Thompson is one of the most innovative and respected firms in their field.”*

*“CTL | Thompson’s experience is second to none and the engineering staff is above everyone else.”*

- Client Survey Responses

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## Firm Overview

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CTL | Thompson, Inc. (CTL) offers extensive experience and a broad scope of capabilities to expedite your project. While our primary historical focus was on geotechnical engineering and construction materials testing, we have broadened our capabilities in environmental investigations and remediation, pavement management, mine subsidence evaluation, engineering geologic studies, and forensics.

CTL serves clients throughout the Front Range, Wyoming and Montana. Typically, we assist our clients with new construction and redevelopment projects, but we have also conducted contract research, forensic analysis and many other non-construction related projects.

Our multiple areas of competency provide you with a broad range of expertise from start to finish. Whether a project is small or large, residential or commercial, public or private, our services provide clients with a full range of geotechnical, environmental and materials engineering solutions.

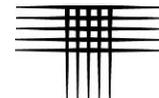
Numerous civil and geotechnical professional engineers are on staff, as well as professional environmental engineers who are devoted exclusively to environmental consulting. While environmental engineering reports and assessments do not typically require a Professional Engineer stamp, CTL’s environmental engineers review and stamp such deliverables as a matter of course. It is a higher level of assurance and professionalism that we offer to our clients, exceeding current industry standards.

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## Firm History

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CTL | Thompson, Inc. is the result of the 1977 merger of Robert W. Thompson, Inc., established in 1971 and Commercial Testing Laboratories, established in 1947. The company has experienced steady growth in capabilities and staff to support client’s needs since the merger. Office locations have increased from two to nine and geographical expansion has occurred to include the Rocky Mountain Region, Wyoming, and Montana.



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## Phase I and Phase II Environmental Site Assessments

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CTL offers a full range of Site Assessment and Due Diligence support services to assist our clients in meeting their business objectives. To date, we have completed over 1,500 Phase I Environmental Site Assessments (ESA) in accordance with ASTM E 1527 standards. These ESAs have been completed throughout Colorado to assist our clients in purchasing and selling commercial, industrial, and mixed-use sites. The CTL Phase I ESA report is structured to be in general compliance with ASTM 1527-13 standard and also meet the EPA's All Appropriate Inquiry (AAI) rule.

As trusted consultants, our clients rely on us to provide accurate information and risk assessment regarding sites in which they are interested. This information enables our clients then to make the best business decision possible regarding purchase and development of sites in a timely manner. CTL strives to set ourselves apart from our competition by not focusing on the problem, but focusing on the solution to identified concerns. We help our clients bridge the gap from recognizing environmental issues to completing construction projects.

CTL has conducted over 150 Phase II investigations for a wide range of contaminants in both urban and remote sites; including investigation of petroleum products, solvents, pesticides/herbicides, heavy metals, and radionuclides. Our scope of services has included:

- **Sampling of soils**
- **Sampling of surface water**
- **Sampling of groundwater to a depth of over 150 feet**
- **Sampling a building material**



**Denver Convention Center Hotel**

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## Underground Storage Tank Regulatory Management

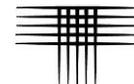
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CTL has assisted clients in managing underground storage tanks (USTs) and addressing associated risks, including UST evaluation and site closure. We have conducted over 75 site investigations to assess UST sites and address associated risks. Our



**Governor's Mansion  
Denver, CO**

project experience includes site characterization, management of contractors, report preparation, and OPS-approved closure and fund reimbursement applications. We work with our client to address releases in the most economical manner that is compliant with environmental regulations.



CTL has an excellent relationship with regulators that benefits our clients in addressing clean-up and reaching site closure. At times, clients have had CTL “turnkey” projects from assessment through remediation and site closure.

We have provided criteria to our clients to aid in the design and installation of new USTs and ASTs compliant with applicable federal, state and local regulations, including design of tank placement, piping distribution systems and monitoring systems. Our services have also been provided to clients who operate USTs and ASTs in evaluating site compliance with applicable regulations through facility audits and document reviews.

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### Site Characterization and Remedial Design

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Site characterization occurs after either a regulatory directive, or when a client, after seeing the results of a Limited Phase II ESA, wishes to see the project through and define the extent of the contamination.

CTL played a major role in characterizing the Villa Italia (Bel Mar) site in Lakewood. Our project included the installation of 15 monitoring wells in an effort to define the extent of hydrocarbon as well as PCE and TCE solvent contamination from a historical gasoline station and dry cleaners. The remediation systems proposed included dual phase extraction, chemical degradation using Hydrogen Release Compound (HRC), and reactive permeable barrier technologies.

CTL has installed monitoring wells to assist in characterizing:

- **Groundwater flow and geochemistry**
- **Limits of contamination plume**
- **Chemical fate and transport**

We have designed and installed remediation systems to address both

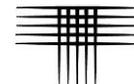
petroleum and solvent concerns. As part of our remediation work, we have:

- **Successfully obtained reimbursement from the State of Colorado for tank removal projects; our clients have received up to \$330,000 for site specific remediation work**
- **Assisted our clients in defense of lawsuits**
- **Overseen the removal of hazardous waste and petroleum products**
- **Documented final conditions to provide closure for our clients**

Fortunately for our clients, we have found that the regulatory environment has changed over the years to reflect a more case-by-case approach rather than a one-size-fits-all approach. By staying up with latest regulatory trends and documents, we have been able to think outside the box and arrive at practical, low cost solutions, as opposed to approaching every problem with the same set of tools.



We work with regulators on a frequent basis and have gained a reputation that creates mutual respect. Our partnering approach in working with regulators develops a work scope, practices, and policy that are protective of human health and the environment.



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## Asbestos and Lead-based Paint Assessment & Management

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CTL offers asbestos consulting services to our clients to assist in meeting goals. CTL has EPA Certified professionals for the following asbestos positions:

- **Building Inspector**
- **Project Designer**
- **Management Planner**
- **Air Monitoring Specialist**

We work with our clients to incorporate their project priorities into the project documents and bid requirements by communicating with our client's project managers, site/program management, and consultants to fully understand the project goals, performance requirements, and client expectations; while meeting compliance standards within set schedules and costs. We have assisted clients in bid and procurement support activities, including contractor prequalification, job walks, bid questions response, bid evaluation, submittal review, award conference, and project kick-off meetings.

CTL has conducted over 400 asbestos inspections at various locations in Colorado and Wyoming. These inspections have been in support of demolition and renovation projects for residential, commercial, and government facilities. We have also been involved in one of the largest asbestos related projects in history located at the Lowry Redevelopment in Denver and Aurora, Colorado.

Our inspection procedures and reports are compliant with AHERA and local and state requirements, and have been used to identify required abatement actions, and in emergency response situations. We have the capability of producing AutoCAD Drawings that identify sample locations and asbestos containing materials (ACMs).

We have worked with clients to assess and determine what materials require removal prior to demolition or

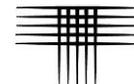
renovation, including ACM quantification and development of opinions of cost for removal actions.



**Asbestos Survey  
Lowry Redevelopment**

CTL has developed project designs and specifications to support removal projects. Our specifications are designed to clearly identify requirements, promote compliance with applicable regulations, meet project schedules, promote safety, and minimize change-orders. CTL has received positive feedback regarding our specifications from contractors and owners and has provided air monitoring to assess employee exposure and area conditions. This air monitoring has been provided to support abatement projects, evaluate OSHA compliance, and address exposure complaints. We have conducted monitoring to support PCM and TEM analysis and have over 50 high volume and low flow pumps available to support air-monitoring activities.

CTL has developed O&M plans following abatement or inspection actions. These plans have addressed apartment buildings, schools and commercial operations. As part of an O&M plan, we meet with the site management and maintenance staff to review O&M plan requirements. We have provided two-hour awareness training to site occupants to meet OSHA Hazcom Standard requirements, and ensure employees are aware of O&M plan requirements.



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## Mold Investigations & Mitigation Assistance

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CTL has broad experience in assessing moisture intrusion and mold growth in buildings, as well as evaluating buildings for airborne mold amplification. CTL assessors conduct visual observations to identify evidence of moisture intrusion and visible mold and also utilize thermohygrometers and penetrating and non-penetrating moisture meters to determine the extent of moisture problems in the indoor environment and within certain types of building materials. Our assessments may also include collection of various sample types (spore traps, Anderson samples, tape lifts, swabs, and bulk samples) and submittal to a qualified subcontract laboratory for direct analysis or culturing.



Either as part of our investigation report, or as a stand-alone document, CTL also performs design services for mold mitigation and assists with management and oversight of the mitigation process. Upon completion of mold mitigation, CTL performs final visual inspections of the mold mitigation project and performs clearance air sampling in advance of re-occupancy.

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## Indoor Air Quality and Exposure Assessments

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CTL has a wealth of experience conducting general indoor air quality (IAQ) assessments and chemical exposure assessments. For IAQ assessments, CTL generally uses real-time monitoring equipment to evaluate temperature, humidity, carbon monoxide, and carbon dioxide fluctuations within a building

over the course of a work day. Some clients also request dust monitoring using real-time measurement devices. Fluctuations in these general IAQ parameters are used to determine whether the indoor air quality is being impacted by dust, automotive exhaust (or other sources of carbon monoxide), or a lack of fresh air.

In addition, CTL performs initial exposure assessments, ongoing monitoring, and negative exposure assessments (NEAs) for various chemical contaminants regulated by the U.S. Occupational Safety and Health Administration (OSHA). Using various sampling media specific to the chemical(s) of interest (e.g., volatile organic compounds, formaldehyde, metals, etc.), CTL collects samples in general accordance with OSHA sampling guidelines and submits the samples to a qualified occupational health laboratory for analysis. Exposures are compared to OSHA Permissible Exposure Limits (PELs) and recommendations are provided for managing subsequent employee exposures. NEAs are prepared using employee exposure results and knowledge of the employee work tasks and likely future exposures.

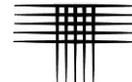
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## Spill Prevention Control and Countermeasures (SPCC) Plans

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U.S. EPA requires facilities that store more than 1,320 gallons of regulated oil products (including gasoline and diesel) prepare and implement an SPCC Plan. CTL assists clients with the preparation of SPCC Plans prepared in accordance with good engineering practices, and each SPCC Plan is signed by one of CTL's registered Professional Engineers. CTL can also assist with evaluation of existing secondary containment systems, or we



can design new secondary containment systems that comply with the requirements of the federal SPCC regulations. In addition, CTL provides training to facility employees to comply with the training requirements in the SPCC regulations.

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### Storm Water Management

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CTL works with homebuilders, contractors and civil engineers to facilitate, develop and implement effective Storm Water Permit compliance programs. Our professional staff can provide input to revise existing SWMPs to address permit requirements, develop SWMPs for new sites and/or assist in obtaining and closing Storm Water Permits.



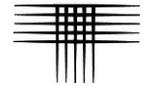
Our environmental services/construction observation team can provide site observation services to support SWMP implementation and provide documentation for Storm Water Permit compliance.



Our trained staff can:

- **Provide timely feedback regarding SWMP effectiveness and recommend modifications**
- **Identify the need for corrective action or maintenance**
- **Document Storm Water Permit Compliance**





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## CTL | Thompson Project Experience

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### City of Loveland Representative Projects

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- **Pulliam Building**

In advance of planned renovations, the City of Loveland requested that CTL review two existing asbestos surveys and conduct a supplemental, pre-renovation asbestos survey. After conducting the supplemental asbestos survey, CTL prepared a summary of asbestos containing materials that may be impacted by the renovations, solicited asbestos abatement bids from Colorado-certified General Abatement Contractors, and performed air monitoring and clearance services during abatement.

- **Namaqua Project (729, 731, and 755 Namaqua Avenue)**

In support of a City of Loveland open space project, CTL performed Phase I Environmental Site Assessments and Asbestos Surveys of three contiguous parcels with multiple buildings. The Phase I Environmental Site Assessment revealed that the property had historically been used as a nursery and orchard, which indicated a potential for the affected land to be contaminated by historic pesticide and herbicide use. A Phase II Environmental Site Assessment was recommended but is still awaiting authorization.

- **South Catalyst Project**

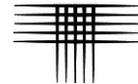
CTL performed Phase I Environmental Assessments of numerous residential and business properties located within the bounds of the City's downtown South Catalyst re-development project. In addition, CTL performed asbestos surveys of selected properties. The Phase I ESAs revealed various concerns such as historical property uses and underground storage tanks.

- **SPCC Plans for Regulated City of Loveland Facilities**

In the late 2000s, CTL prepared SPCC Plans for nine City of Loveland facilities storing greater than 1,320 gallons of regulated oil products. In 2016, the City of Loveland prepared its own updated SPCC Plans but retained CTL to review and certify the plans (certification provided by CTL Professional Engineers). During the review and certification process, CTL assisted the City with evaluation of secondary containment systems and provided recommendations, where appropriate, for installation or improvement of inadequate secondary containment systems. CTL provides annual employee SPCC training for various facility employees, including those of the Recycling Yard.

- **Cattail Creek Golf Course Clubhouse**

In 2016, employees at the Cattail Creek Golf Course noticed a water loss from an ice machine in the Pro Shop of the Clubhouse. CTL was retained to perform a mold and moisture intrusion assessment of the Clubhouse. The water loss was observed to have impacted flooring and walls in the Pro Shop and one adjoining room. Mold was identified on the wood floor, under the carpet, and the wood floor itself had elevated moisture content. CTL developed a scope of work for mold mitigation and assisted the City in obtaining bids from mold mitigation contractors. During the mold mitigation, CTL performed oversight of the mitigation activities and performed final clearance/re-occupancy inspections and clearance mold sampling.



### Mosaic Subdivision (formerly called Montage and East Ridge) Fort Collins, Colorado

CTL assisted several entities responsible for development of this subdivision. We prepared a SWMP and performed bi-weekly stormwater inspections for the development contractor during the initial clearing, grubbing, and overlot grading activities. We then performed Phase I and II environmental site assessments for two builders prior to vertical construction. During vertical



construction, we prepared a SWMP and permit applications and performed bi-weekly stormwater inspections for one of the major vertical builders in the subdivision.

### Ryland Homes 3 Locations

- 640 Acre parcel, Adams County, Colorado
- Wheatlands II, Arapahoe County, Colorado
- ADM County Line Property

This project involved a Phase I Environmental Site Assessment, Wetland & Endangered Species observation, and Archeological Investigation of the parcel. CTL | Thompson provided the client with documentation to aid in the client's due diligence requirements. We did not find evidence of recognized environmental conditions, likely impacts to archeological resources, or likely impacts to the Preble's Jumping Mouse, a listed species in these counties.



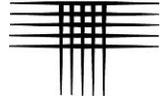
Wheatlands II

### Granby Ranch, Granby, Colorado

This 5,000-acre property included a golf course and a ski resort. Undertaking a Phase I ESA for such a large and varied site, much of it remote, required a good sense of property boundaries, distances, and ground water flow direction.



Potential issues with the site included a nearby VCUP property which required detailed research, and on-site issues such as an historic gravel pit/dump, numerous unmarked 55-gallon drums, asbestos in buildings, and storage of pesticides and herbicides. CTL made several findings, but none that were considered recognized environmental conditions (RECS). We have a reputation for working with our clients to decide the level of concern, rather than declaring every issue as a REC. The client refinanced the property successfully.



## Lowry Redevelopment, Aurora, Colorado

The United States Air Force sold the Lowry Air Force Base to the Lowry Redevelopment Authority (LRA) as part of the military's Base Realignment and Closure program. The LRA then sold parcels of land to various private developers.

The Colorado Department of Public Health and Environment (CDPHE) discovered asbestos contaminated soils within the developed communities and were concerned with potential asbestos exposure to the Lowry homeowners, site visitors and the general public.

Standard Pacific Homes requested CTL investigate the issue and assist them in complying with CDPHE requirements. We also responded to



homeowner and contractor concerns regarding health, safety and exposure monitoring. CTL has conducted air sampling to assess exposure to occupants and site visitors. The investigation has included collecting over 300 samples from the soil to characterize conditions on each lot. Lowry is now an example of successful redevelopment.

## Home Builders Association, Denver, Colorado

CTL performed a Phase I ESA, asbestos survey, and geotechnical investigation for the Homebuilders Association along the I-25 corridor. The HBA was planning to demolish

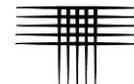


two existing buildings and construct a new, larger office building. This site formerly housed a storage tank for the Public Service Company. Historic maps suggested the presence of a large petroleum tank, but this was difficult to confirm. We interviewed a longtime resident of the area who worked for Public Service, and indicated that the tank was an aboveground, methane storage tank. Reasoning that this usage presents a low concern for ground water contamination, CTL published the report without the need for a Phase II ESA.

## 2095 30th Street, Boulder, Colorado

CTL conducted a Phase I Environmental Site Assessment (ESA) in an area consisting of office buildings, retail shops, a restaurant, and parking lots.

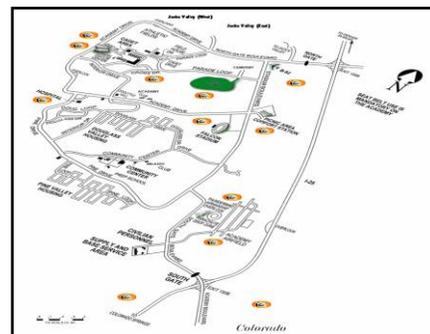
We conducted historical research, records review, a site visit, and interviews to assess the soils, geologic and hydro-geologic conditions of the vicinity. CTL then provided the client with a detailed report of our findings and recommendations.



### U.S. Air Force Academy, Colorado Springs, Colorado

CTL provided asbestos and lead surveys of the Aero-science building cooling tower and mechanical room at the US Air Force Academy in Colorado Springs. The purpose of the survey was to identify the presence, location, quantity, and condition of asbestos containing building materials (ACBM) and the existence of lead containing paint (LCP).

The survey was conducted in accordance with EPA and OSHA requirements, as well as generally accepted industry standards.



Our services enabled the client to meet their contractual and regulatory obligation to conduct ACBM and LCP testing where renovation is planned.

### Governor’s Mansion, Denver, Colorado



CTL coordinated the removal and disposal of an underground storage tank (UST). Services that were provided include soil sampling, removal and disposal of the tank contents, and the facilitation of regulatory closure with the State of Colorado.

### Troxel Residence, Denver, Colorado

CTL coordinated the removal and disposal of an underground storage tank (UST). Services that were provided include obtaining the tank registration and removal permit on

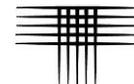
an expedited basis, soil sampling, removal and disposal of the tank contents, and facilitating regulatory closure.

### Red Rocks Point, Jefferson County

This project is an area of vacant land which CTL | Thompson monitors for storm water management. This allows our client to maintain compliance with state regulations. Observations are performed bi-weekly, or after significant precipitation, to document

the performance of the Best Management Practices.

We publish our documentation for inclusion in the Storm Water Management Plan records that are retained on site.



## Denver Convention Center Hotel, Denver, Colorado

The hotel is located contiguous to the nearly completed convention center expansion. As the city's largest redevelopment effort underway in 2003-2004, the convention center's hotel "headquarters" are a fundamental element to the expansion's success.

Preliminary studies focused on investigation of historic land use and potential ground water contamination. During excavation, CTL observed soils to confirm that conditions were consistent with the Environmental Site Assessment. The services included a soil management plan; collection of samples for characterization of petroleum-impacted soils and ground water; field operation observation; supporting closure of an abandoned underground storage tank; and consultation to support waste characterization and disposal options.



Faulkner was able to complete the project with minimal slowdown from environmental concerns.

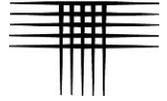
## Aurora Academy Charter School, Aurora, Colorado

An extensive site characterization oriented to the VCUP Program was completed for this project. CTL conducted soil gas sampling, ground water sampling, and indoor vapor concentration modeling. The client engaged CTL after learning of the proximity of a TCE/Solvent plume from the nearby Lowry Air Force Base. CTL was able to document TCE contamination in the ground water beneath a proposed gymnasium

addition; however, through modeling we were able to demonstrate a minimal impact to the building occupants. After a face-to-face conference between CTL, the client, and CDPHE, the client was able to achieve a special, expedited regulatory signoff from CDPHE, indicating that no further action was needed by the school. The proposed addition was constructed with no delay.



# Project Team – Key Members



## **Dana Harris, Environmental Department Manager**

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### **Office Location**

**Fort Collins, Colorado**

### **Years of Experience**

**23 Years**

### **Education**

**B.A. Environmental Science  
University of Virginia, 1992**

### **Training & Certifications**

**Certified Asbestos Inspector  
Certified Asbestos Air  
Monitoring Specialist  
EPA -Accredited Asbestos  
Project Designer  
CDOT Certified Erosion  
Control Supervisor**

Mr. Harris has 25 years of experience in environmental consulting. He comes with an extensive background, including experience in Phase I and Phase II Environmental Site Assessments, Brownfield redevelopments and Voluntary Cleanup Programs, asbestos, mold, and environmental regulatory compliance and permitting.

He manages environmental projects including inspections, planning, design, and remediation oversight. He is also experienced in environmental assessments, indoor air quality, risk assessments, underground storage tank investigations, spill assessments, and soil and groundwater remediation. He provides

technical and health and safety training to clients for compliance with USEPA, OSHA, and DOT, and State regulations.

## **Project Experience**

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### **Fort Collins-Loveland Airport, Loveland, Colorado**

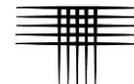
Project manager and senior technical staff member for assessment activities and risk-based closures associated with releases of aviation fuel (2004) and chlorinated solvents (2008) at a fixed based operations (FBO) hangar facility. For both releases, conducted soil and groundwater sampling and laboratory analyses, conducted contaminant fate and transport modeling, performed comprehensive human health risk assessments, and petitioned for risk-based case closure.

### **Historic Dinneen Building, Cheyenne, Wyoming**

Project manager for Wyoming Department of Environmental Quality (WDEQ) Voluntary Remediation Program (VRP) assessment and remediation of historic automotive dealer, repair shop, and body shop. Soil and groundwater investigation identified contamination with chlorinated solvents, heavy metals, and petroleum constituents. Performed risk assessment, developed remediation work plan that was approved by WDEQ and implemented in conjunction with site construction activities.

### **JC Penney Demolition, Fort Collins, Colorado**

Project manager, asbestos inspector, and air monitoring specialist for pre-demolition asbestos survey, asbestos abatement contractor procurement, and asbestos abatement project oversight and air monitoring for former JC Penney store scheduled for demolition at Fort Collins Mall.



### **Rialto Bridge Project, Loveland, Colorado**

Project manager for pre-demolition activities at two buildings being purchased for expansion of the historic Rialto Theater. Conducted asbestos survey, hazardous materials survey, developed asbestos abatement cost estimates, developed abatement project specifications and obtained contractor bids, performed oversight and air monitoring services for asbestos and hazardous materials abatement.

### **Rice Ranch, Fountain, Colorado**

Performed a multi-media environmental compliance review for the former gravel pit and current excavating company headquarters. Prepared SPCC for facility's fuel tanks and fuel loading/unloading operations. Assisted with wetland determination. Assisted with surface water sampling and analysis for perfluorinated compounds, which impacted regional groundwater from nearby military fire training exercises.

### **Loveland High School, Loveland, Colorado**

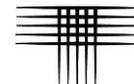
Project manager and air monitoring specialist for project at school involving abatement of asbestos floor tile and mastic to allow for concrete polishing. Conducted air monitoring and inspections of asbestos abatement activities during asbestos removal, performed analysis of PCM air samples, and provided regular updates to school district staff. Assisted with final visual inspection and final clearance air sampling and PCM analysis. After asbestos abatement was complete, concrete polishing was performed in areas of abatement. Performed sampling for total particulates after complaints were received following the concrete polishing activities.

### **Laramie High School, Laramie, Wyoming**

Project manager and air monitoring specialist for pre-demolition asbestos abatement at old Laramie High School. Assisted with air monitoring and abatement oversight during abatement project lasting more than six months. Coordinated with asbestos inspection and design team and school district. Performed analysis of PCM air samples. Performed final visual inspections and final clearance air sampling of sections of school where abatement was completed. Following abatement and building demolition, CTL's materials testing personnel performed compaction testing.

### **City of Loveland SPCCs, Loveland, Colorado**

Performed technical updates of nine City of Loveland facilities requiring SPCC Plans. Performed inspections of new storage tank and secondary containment systems. Prepared updated SPCC Plans for P.E. review and certification. Made design recommendations for additional required technical updates, inspected implemented designs for technical and regulatory compliance, and provided revised SPCCs for P.E. review and certification.



## **Brandon Edwards, Engineering Technician**

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### **Office Location**

**Fort Collins, Colorado**

### **Years of Experience**

**4 Years**

### **Education**

**B.S. Natural Resources Mgt.  
Minor: Water Resources  
SUNY Environmental  
Science and  
Forestry, Syracuse NY 2012**

### **Training & Certifications**

**Certified Building Inspector  
Certified Air Monitoring  
Specialist  
NIOSH 582e  
CDOT Certified Erosion  
Control Supervisor**

Mr. Edwards joined CTL | Thompson in 2018 with 4 years of experience in environmental consulting. He previously worked as an asbestos project monitor and asbestos building inspector in New York State. As an Environmental Technician in the Environmental Department in our Fort Collins office, his responsibilities include performing field work and data research on environmental-related issues and producing written reports for clients.

He has a background in asbestos building inspections, project oversight, air monitoring and clearances. He also has experience with industrial hygiene, stormwater, mold, and environmental site assessments.

## **Project Experience**

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### **Asbestos Surveys and Abatement Projects**

Performed asbestos surveys and air monitoring services for various commercial and residential projects. Performed asbestos inspections, provided contractor oversight and performed final visual and air clearances for abatement projects.

### **Stormwater Projects**

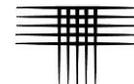
Obtained CDOT stormwater certification and performed inspections of installed stormwater best management practices (BMPs) at Mosaic residential development in Fort Collins, Colorado.

### **Hazardous Materials Surveys and Remediation Projects**

Performed hazardous materials surveys for lead and PCB's on commercial and manufacturing buildings. Oversaw removal and remediation as well as provided contractor oversight during the remediation process. Worked on a former superfund site in Harriman NY, at NEPERA Chemical Inc. overseeing lead and PCB removal on site.

### **Environmental Site Assessments**

Previously worked on Phase 1 Site Assessments in an introductory manner since starting at CTL. Performed site visits and compiled data for reporting on current and past site conditions. Reviewed database reports to assess possible environmental concerns associated with sites.



## **Matthew L. Wardlow, P.E. – Associate/Project Manager**

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### **Office Location**

**Denver, Colorado**

### **Years of Experience**

**20 Years**

### **Professional Registration**

**Registered Professional Engineer: Colorado**

### **Education**

**B.S. Engineering and Policy, Washington University, St. Louis, MO, 1993**

### **Training & Certifications**

**40 Hour OSHA Training  
Confined Space Training  
Mold Remediation Technician  
Training Principals of Forced Air Remediation  
Asbestos Inspector  
Air Monitoring Specialist  
Designer**

### **Professional Affiliations**

**American Society of Civil Engineers  
American Society of Foundation Engineers  
Colorado Environmental Management Society  
Urban Land Institute**

Mr. Wardlow has a variety of technical expertise in Phase I and II Environmental Site Assessments, CDPHE Voluntary Cleanup (VCP) applications, asbestos consultation, underground storage tank removals, site characterizations, and assessments under the National Environmental Policy Act. Mr. Wardlow reviews all environmental deliverables, making sure that the latest practices are followed. He has developed a reputation as a consistent and reliable consultant for his clients, which include the City & County of Denver, Auraria Campus and its colleges, and Boulder County. He encompasses a variety of project experience including brownfields, historical mine sites, medical facilities, and wastewater treatment plants.

### **Project Experience**

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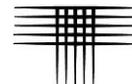
#### **Regency Athletic Complex at MSU Denver, Denver Colorado - 2016 ACEC CO GRAND CONCEPTOR AWARD**

This former brownfield, located at the southern end of Auraria Campus, was the site of geotechnical and environmental issues from past industrial use. There was also the potential for settlement due to undocumented fill. Mr. Wardlow devised an idea using Deep Dynamic Compaction (DDC), which is a ground improvement technique that densifies the majority of soils and fills in-place by using a drop weight. CTL then provided on-site geotechnical and environmental inspection services, management of contaminants excavated, and also successfully entered the

client into the State of Colorado Voluntary Cleanup Program. Measures were also taken to monitor air quality and vibrations from the impact. The solution was about 25% of the removal and replacement costs, and there has been no noticeable settlement.

#### **Other Redevelopment/Voluntary Cleanup Projects:**

Prepared Overall 2016 Auraria Campus Materials Management Plan  
New Breckenridge Brewery – VCP – Remediation of Pesticides  
Community College of Denver Confluence Building  
Metro State Hotel and Hospitality Learning Center  
Metro State Student Success Building  
AHEC 5th Street Parking Garage – VCP – Coal Ash and Asbestos  
Gold Hill Mesa - VCP - Subdivision Constructed on Mine Tailings



### **Other Major Projects and Clients**

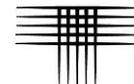
Denver Department of Environmental Health - 20+ P1 and P2 ESAs  
Land Developers - Due Diligence Studies and SWMP Consultation  
Urban Land Conservancy - P1 and P2 ESAs, IAQ Concerns  
CU Boulder - Asbestos Consultant - Ketchum Hall, Hallett Hall  
Boulder Valley School District - On-Call Asbestos Consultant

### **Mold Inspection and Remediation Projects**

Performed mold inspections on hospital, hotel, and downtown tower building projects, utilizing thermal imaging cameras and moisture meters. Obtained bids from contractors and provided oversight for remediation.

### **Methamphetamine Contamination Remediation**

Performed inspection for meth under CDPHE contract. Also performed clearance inspection on contaminated building after remediation.



## Trevor J. Truett, Staff Scientist

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### Office Location

Denver, Colorado

### Years of Experience

15 Years

### Education

B.A. History,  
University of Colorado,  
1998

### Training & Certifications

Asbestos Inspector (CABI)  
Air Monitoring Specialist

### Professional Summary

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Mr. Truett joined CTL | Thompson in 2000 as an Engineering Technician. He joined the Environmental Department in the fall of 2010 and currently serves as a Staff I Scientist for commercial and municipal projects.

Mr. Truett has answered the bell with everything he has been asked to do, and now has certifications in the asbestos consulting arena. He is learning Phase I and II ESAs and is demonstrating a quick grasp and surprising initiative. He has worked

on a variety of projects including commercial retail properties, residential subdivisions, churches, industrial buildings, and municipal facilities.

### Project Experience

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#### **The Regency Athletic Complex at MSU, Auraria Campus, Colorado**

Senior Technician and Asbestos Inspector providing oversight for excavation of a major Brownfield site. CTL was recently awarded the highest honor, the 'Grand Conceptor Award' at the ACEC CO Engineering Excellence Awards for this project.

#### **Metro State Center for Student Success, Auraria Campus, Colorado**

Assisted with Phase I and II ESA and provided Asbestos Inspector oversight for excavation.

#### **University of Wyoming, Law Building, Agricultural Buildings, Cheyenne, Wyoming**

Assisted lead inspector with record keeping, photos, and chains-of-custody for this wide-scale asbestos survey of the campus mechanical areas.

#### **Stapleton, Filings 19 and 24, New Town Builders, Denver, Colorado**

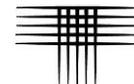
Assisted with Phase I ESA data gathering and photo research.

#### **Metro State Hotel and Hospitality Learning Center, Auraria Campus, Colorado**

Assisted with Phase I and II ESA provided Asbestos Inspector oversight for excavation.

#### **CCD Confluence Building, Auraria Campus, Colorado**

Installed monitoring wells and oversaw removal of TCE source area and then application of emulsion product to treat the groundwater.



## Edward R. White, P.E., Staff Engineer

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### Office Location

**Glenwood Springs, Colorado**

### Years of Experience

**12 Years**

### Education & Training

**B.S. Civil Engineering,  
University of Colorado, 2001**

### Professional Registration

**Registered Professional  
Engineer: Colorado**

### Training & Certifications

**Stephen v. Thompson  
Consultants; Nuclear Gauge  
Operation, May 2004  
Storm Water Management  
and Erosion Control, 2006,  
40 Hour OSHA Training  
State of Colorado Asbestos  
Certification, Building  
Inspector, Cert. No. 13089**

### Professional Summary

Mr. White joined CTL | Thompson, Inc. in our Glenwood Springs, Colorado branch office over four years ago. Current responsibilities include: performing soils and foundation investigations, geotechnical investigations, moisture tests, and providing environmental services. He has been involved with residential and commercial site design as well as residential and commercial environmental services projects.

Mr. White's area of expertise includes environmental engineering. He has several years of experience since graduating from the University of Colorado in 2001.

### Project Experience

#### **Crown Mountain Plaza, El Jebel, Colorado**

CTL provided a Limited Phase II Environmental Site Assessment (ESA) and Geotechnical Investigation for the project. The investigation included the drilling and sampling of soils in order to measure any contamination of subsurface soils from leaking underground storage tanks and heavy metals.

#### **Aspen/Pitkin County Airport, Aspen, Colorado**

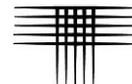
Environmental services were provided for this project, including the sampling of soils for laboratory testing for Total Recoverable Petroleum Hydrocarbons and ethylene glycol, as well as interpretation of laboratory results.

#### **Lodge at Aspen Mountain, Aspen, Colorado**

Environmental and Geotechnical Services were provided for this project. The site is located at the base of Aspen Mountain and is in a historical mining area. The investigations included the observation of drilling and sampling of soils and detecting the presence of metals in the soils due to mining activities.

#### **Residences at Little Nell, Aspen, Colorado**

This project entailed the installation and reading of seven inclinometer wells for the development of this site at the base of the Aspen Skiing Area. Mr. White was the Staff Engineer for this project.



**Served as the staff engineer for the following projects and investigations:**

Phase I ESA's in Pitkin, Eagle, Gunnison & Mesa Counties, Colorado  
Soils & foundation investigations in Garfield, Eagle & Pitkin Counties, Colorado

Asbestos & Hazardous Building Material Surveys in Pitkin & Gunnison  
Mold & moisture intrusion evaluations in Garfield & Pitkin Counties, Colorado

Several underground storage tank (UST) removals in Garfield & Pitkin Counties, Colorado.